

CONSOLIDATED ANNUAL TRUSTEE (activity) REPORT

FOR 2017



'The Academy of Europe'
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**Company limited by Guarantee and registered at Companies
House. Registration number 07028223
Registered with the Charity Commission, registration number
1133902**

Contents:		Page
Section 1	Governance	3
Section 2:	The structure and mission of the Academia Europaea	5
Section 3:	Trustees' report for the period ended 31 December 2017	5
Section 4:	Centrally co-ordinated activities	8
Section 5:	Academia Europaea Outreach activity	22
Section 6:	Events with AE Patronage	24
Section 7:	Corporate matters and Section reports	24
Section 8:	Statement of Trustees' Responsibilities	29
Annex 1	New members elected in 2017	35
Annex 2	Trustees, Council, Nominations sub Committee and Section Committee composition as at 31 st December 2017	40

Reports of the activity of the AE Knowledge Hubs for 2017 are available separately as follows;

Barcelona Knowledge Hub	(Annex 3) – on request
Bergen Knowledge Hub	(Annex 4) - on request
Cardiff Knowledge Hub	(Annex 5) - on request
Wroclaw Knowledge Hub	(Annex 6) - on request
Graz Information Centre	(Annex 7) – on request

NOTE: The Knowledge Hub reports are large files. They are available to download from www.ae-info.org
Or on request from the individual Hub offices, or online at the following URLs;

Barcelona Hub at: <http://barcelona.acadeuro.org/>

Bergen Hub at: <http://acadeuro.b.uib.no/>

Cardiff Hub at: <http://aecardiffknowledgehub.wales/about-us/annual-reports/>

Wroclaw Hub at: <http://acadeuro.wroclaw.pl/>

Section 1: Governance

THE TRUSTEES, AND COUNCIL OF THE ACADEMIA EUROPAEA

Board of TRUSTEES (at 31 December 2017)

Officers

President:	Professor Sierd Cloetingh re-elected at AGM of 2017)	Utrecht, (elected June 2014,
Vice President:	Professor Anne Buttimer	Dublin, (deceased October 2017)
Hon. Treasurer:	Professor Ole Petersen	Cardiff (appointed April 2016)
Co-opted Members:	Professor Theo D'haen Professor Eva Kondorosi Professor Balazs Gulyas Professor Don Dingwell Professor Svend Erik Larsen Professor Alex Verkhatsky	Leuven, (till end 2019) Budapest (till end 2019) Stockholm, (till end 2017) Munich, (till end 2018) Copenhagen, (till 2019) Manchester, (till AGM 2019)
Appointed by Council:	Professor Kirsten Drotner Professor Dagmar Coester-Waltjen Professor Alain Peyraube	(to 2019) (to 2019) (to 2019)

At the time of writing this report, the number of independent members that are elected to Council was set at a maximum of three. The Chairs of the Academic Sections are *de facto* members of the Council. Periods of office of Section chairs are as described in the regulations. The list of Section chairs, as at 31 December 2017, is at annex 6 of this report. Three members of the Council are nominated by Council to the Board of Trustees. Professors Peyraube, Drotner and Coester were appointed by Council to the Board of Trustees, with effect from January 2017. Prof. D'Haen is the Editor-in-Chief of the European Review. Three class chairs had their mandates modified by agreement with the Council, as follows: Prof Buttimer till AGM 2017 (died during the year), Prof Dingwell till AGM 2018, Prof. Larsen till AGM 2019. Prof. Petersen was re-confirmed as AE Treasurer pro tem until a new Treasurer can be elected. Prof Verkhatsky was appointed by the Trustees as Class Chair for Class C – life sciences until AGM 2019.

Class A1 – Humanities and Arts – Chair Professor Svend Erik Larsen (Trustee)
Class A2 – Social and related Sciences – Chair Professor Anne Buttimer (deceased October 2017))
Class B – Exact Sciences – Professor Don Dingwell (Trustee)
Class C – Life Sciences – Professor Alex Verkhatsky

The composition of the Council as at 31st December 2017 is at Annex 6.

London General Secretariat

Executive Secretary: Dr David Coates
Senior Administrator: Ms Teresa McGovern
Accounts and payroll: Outsourced to Keith Vaudrey & Co.
Membership Secretary: Function partially provided by the Wroclaw office
Membership administration and database outsourced: Technical University of Graz. Contact is Ms Dana Kaiser

The Executive Secretary is the *de facto* CEO and Company Secretary, with responsibility for day-to-day operations of the London office; oversight of the regional hubs and secretariat support to the Board and other committees.

The registered office is at Room 251, Senate House, University of London, Malet Street. London WC1E 7HU

Barcelona Hub (<http://barcelona.acadeuro.org/>)

Academic Director: Professor Ricard Guerrero.
Assistant: Doina Bird

Bergen Hub (www.acadeuro.b.uib.no/)

Academic Director: Professor Eystein Jansen
Assistant: Ms Kristen Hansen; Kristen Svartveit

Cardiff Hub (www.aecardiffknowledgehub.wales/)

Academic Director: Professor Ole Petersen (Treasurer).
Hub Manager: Ms Louise Edwards, Esther Dorado Ladera
Office manager: Mrs Judith Lockett

Graz data Centre. Responsible (under contract) for delivery, support, development and content management of the AE corporate website (www.ae-info.org) and the membership database. The data centre team include: (Director) Professor Frank Kappe, Project Manager H. Leitner, M.Sc., Chief Programmer Robert Hoffmann and Main Editorial Management Dana Kaiser, M.A.

Wroclaw Knowledge Hub (www.acadeuro.wroclaw.pl/)

Academic Director: Professor Tadeusz Luty
Administrators: Dr Ola Nowak and Ms Kasia Majkowska

Auditors

Keith Vaudrey & Co
Chartered Accountants
First Floor, 15 Young St.
London W8 5EH

Principal Bankers

NatWest Bank Plc
PO Box 2AG
63, Piccadilly
London W1A 2AG

Solicitors

Hewitson Becke+Shaw
Shakespeare House
42, Newmarket Road
Cambridge. CB5 8EP

Note: The legal and administrative information in the report and financial statements forms a part of the trustee's report.

Section 2: The structure and mission of the Academia Europaea

Prior to 2010 the Academia Europaea operated under a Deed of Trust and was registered as a Charity with the Charity Commission of England and Wales (former registration number 1001978).

On 23 September, 2009: the Academia Europaea was incorporated as a Company limited by Guarantee and was registered at Companies House (number 07028223). See: <https://beta.companieshouse.gov.uk/company/07028223> .

The Company was also registered as a not-for-profit charity (registration number 1133902, see

<http://apps.charitycommission.gov.uk/Showcharity/RegisterOfCharities/CharityWithoutPartB.aspx?RegisteredCharityNumber=1133902&SubsidiaryNumber=0>

Governance and management

The affairs of the Academia Europaea are managed by a Board of Trustees. There is a consultative Council and other operational sub-committees that are described in annex 1. Elections and appointments to the Board and to the Council are as described in the regulations. These can also be found on the corporate website at www.ae-info.org.

The officers of the Academia (President, Vice President(s) and Treasurer) are elected by members. Other Trustees are either appointed from the Council, or co-opted directly by the Board. The AGM confirms these appointments in accordance with the regulations. The Vice Presidents (ex officio) are recommended by the President and appointed by the Board of Trustees for a defined term.

Training and induction of new Trustees

New Trustees are provided with a copy of the statutes and regulations; governance documents and sets of minutes of the past year meetings. Trustees also receive copies of documents describing the role and responsibilities of Directors and Trustees and links to the appropriate Charity Commission and Company House websites.

The mission of the Academia Europaea

The Academia Europaea is an international, non-governmental association of individual scientists and scholars, who are experts and leaders in their own subject areas as recognised by their peers.

The Academia will:

- Promote European scholarship and research and increase the wider appreciation of its value and importance
- Make recommendations to national governments and international agencies concerning matters affecting science, scholarship and academic life in Europe.
- Encourage interdisciplinary and international research in all areas of learning, particularly in relation to European issues.
- Identify topics of trans-European importance to science and scholarship, and propose appropriate action to ensure that these issues are adequately studied.

The Academia will endeavour to:

- Encourage the highest possible standards in scholarship, research and education.
- Promote a better understanding among the public at large of the benefits of knowledge and learning, and of scientific and scholarly issues, which affect society, its quality of life and its standards of living.

Charitable objectives:

The advancement and propagation of excellence in scholarship in the humanities, law, the economic, social and political sciences, mathematics, medicine, and all branches of natural and technological sciences anywhere in the world for the public benefit and for the advancement of the education of the public of all ages in the aforesaid subjects in Europe

Section 3: Trustees' report for the period ended 31 December 2017

The Trustees would like to thank all of the organisations that have sustained the Academia through their generous general financial sponsorships in particular the authorities supporting the Barcelona Knowledge Hub and the German National Academy of Sciences (Leopoldina) a Patron member of the Academia Europaea, and those other foundations and organisations that have contributed to specific events and activities of the Academia during the period of this report. These organisations are identified in various places within this report and in the accounts and have been identified within with the various 'reports to members' of events held during the current period, where appropriate. The Trustees have been active in their engagement in the affairs of the Academia and a majority have attended every Board (and the annual Advisory Council) meeting. Trustees have been active in monitoring the affairs of the Academy. The Trustees wish to express their gratitude to the elected officers of the Academy for their hard work on behalf of the membership, in particular to thank Anne Buttmer our elected Vice President, who sadly died during 2017 and who had served as a Section chair and Trustee for a number of years.

This reporting period was carried out against the background of a consolidating financial picture. There were no new core sponsors, but a valuable increase in member donations over the year. Additional unreserved income was also realised from the overhead accrued through participation in the European Commission Horizon2020 funded project – SAPEA. The net result as expressed in the annual accounts for 2017 was an unrestricted funds reserves carried forward to 2018 of £45,154.

The Trustees are fully aware of the need to continue to search for new sources of sponsorship, in particular to support core costs and essential infrastructure. The Trustees therefore implemented the recommended level of member donations requested in 2017, and set new rates for 2018 in accordance with an age-related banding system. The Trustees wish to acknowledge support received in 2017 from the following organisations: The Riksbankens Jubileumsfond; the Heinz Nixdorf Foundation for the renewal of sponsorship of the Erasmus Lecture, the Technical University of Graz for their dedicated I.T. and corporate web support, the Wenner Gren Foundations in Stockholm for support to the HERCuLES group and to World Scientific Publishing Ltd for their donation of book prizes to the 2017 Burgen Scholars. In addition the Trustees are grateful to Professor Balazs Gulyas, Eva Kondorosi and the President of the Hungarian Academy of Sciences for their generous hosting, sponsorship and organisational assistance for the 2017 annual conference in Budapest. Further financial support was gained locally for new initiatives that were organised by and run through the regional hubs. Hub activity reports for 2017 are annexed in full at the end of this report.

The Trustees are pleased to report that in 2017, inter – organisational links were further strengthened with a number of European federation organisations (ALLEA, FEAM, EASAC and euroCASE) and the Horizon2020 Policy project – SAPEA was funded. The project (SAPEA) is described in detail in the report. In addition, the Trustees collaborated closely with ALLEA to jointly organise the 2017 annual conference in Budapest. The AE also engaged in a number of specific activities that responded to policy issues across Europe and made a specific focus on strengthening links with Eastern European and Southern European communities, including in the Balkan region in collaboration with the ERC and COST mechanism, through the President and Prof. Eva Kondorosi (AE Trustee) in her capacity as an ERC vice-president.

The Trustees are pleased to report a further widening of the membership of the Academia Europaea with the admission in 2017 of 247 scholars. The Trustees also continued to support the further development of the Young Academy of Europe, in recognition of the AE mission to promote young researchers. The Trustees continue to recognise the difficult economic circumstances and are able to report that the Knowledge Hubs are financed with local support and were not reliant on core financial support from central funds for their day-to-day operations. The Bergen hub was successfully transferred to the authorities of University of Bergen under new direction. The re-constituted Hub continued operation, but without restoration of the previous financial contribution to the centre. The AE launched a new advanced prize award – the Adam Kondorosi advanced award, to honour the memory and achievements of Professor Adam Kondorosi. The first award was made at the 2017 annual meeting in Budapest and is reported on below.

Following the 2016 referendum to leave the European Union: The implication of a future departure of the UK (BREXIT) was considered by the Trustees in 2017. However, as the Academia Europaea does not rely for its operational existence on any formalised funding from the European Union (other than as a partner in the Horizon 2020 research programme funded SAPEA project, which will end at the time of the end of the exit transition period, and as it has a membership of individuals drawn from the continent of Europe and from beyond Europe. The Trustees consider the risks to the continuation of the Academia as a UK registered and domiciled charity to be negligible at this time. The situation will be kept under review and any necessary steps will be taken to ensure a continuation, including any changes in jurisdiction if needed. The UK government confirmed during the year that all organisations in receipt of EU project grants from Horizon 2020 would have their funding guaranteed in the event of an exit without a negotiated settlement of research participation.

The Trustees, are pleased to place on record, their belief that at the time of compilation of this report, there are no additional or unforeseen risks that may place the continuation of the charity in jeopardy.

Public benefit statement

Over the year the Academia has published articles and papers in commercial journals; organised academic meetings and conferences that are open to young scholars and to the interested public in all areas of operation. The Academia has provided prizes and awards to support and recognise researchers in pursuit of their scholarship. To enhance the accessibility of the European scholarly community to the public, the Academia has maintained and enhanced its Web portal and has contributed to the betterment of European Policy through participation in providing expert, impartial advice to authorities and governmental organisations and has supported the Young Academy of Europe. A full description of all of the main activities is included elsewhere in this report.

The Trustees have consulted the guidance made by the Charity Commission for England and Wales on the Public Benefit requirement of the charities Act 2011. The Trustees are confident that they have complied with their duty under section 4 of the Charities Act 2011 in that they have had a due regard to public benefit guidance published by the Commission.

Future Plans

In the coming year the Trustees will continue to deliver the mission of the Academia through the running of appropriate workshops, publications and related activities. More focus will be given to activity through the four regional hubs. The Trustees will explore new opportunities to expand the network of regional Hubs and also seek alternative models of financing and support for provision of communications infrastructure. The Young Academy of Europe will continue to be supported, specifically to provide a focus to engage with and support young researchers from across Europe, who are embarking on an academic and research career. The AE engagement in European Science policy advice will be strengthened through taking a lead on topics within the Science Advice Policy project (SAPEA) funded by the European Commission and the Trustees will endeavour to find additional core funding and sponsorship sources for activity. The Trustees will especially focus on ensuring that its UK based membership and researchers in general can continue to be fully engaged with their international colleagues during the period of negotiation of the UK exit from the European Union.

Section 4: Centrally co-ordinated activities during the period, 1 January 2017 – 31 December 2017



29th Annual Meeting of the Academia Europaea, Budapest 3 – 6 September 2017.

The 29th annual conference “Sustainability and Resilience” was held in Budapest, under the patronage of the President of the Hungarian Academy of Sciences – Professor László Lovász. The event was organised by the AE Trustees; Professor Balazs Gulyas and Professor Eva Kondorosi and with collaboration of the President of ALLEA Professor Günter Stock MAE and of the Young Academy of Europe. The Trustees wish to thank the Hungarian Academy and The Board of ALLEA and the Young Academy of Europe for their efforts in delivering a very successful event. The list of sponsors and patrons can be found below



The 2017 Erasmus Medal was awarded on 5th September, 2017 to the distinguished international economist and scholar;

Professor Andreu Mas-Colell

The Erasmus Medal of the Academia Europaea is awarded on the recommendation of the Council, to a member who has maintained over a sustained period, the highest level of international scholarship and recognition by peers.

The laudation was made by Sergiu Hart MAE. Professor of Economics, University of Jerusalem.



Professor Mas-Colell delivered the 2017 Heinz-Nixdorf Erasmus

Lecture title: “Is the era of work ending?”



Lecture abstract: This will be a speculative talk on the future of work – and jobs – in economies subject to the scientific and technological advances associated with mechanization. Three propositions will be defended: (i) that if it is made an overwhelming priority of public policy, the minimization of work is a possibility in the long-run, (ii) that the natural development of our managed economies will not necessarily lead to this outcome, and (iii) that this minimization of the role of work is an undesirable outcome that should not be fostered.

BIOGRAPHICAL NOTE:

Professor Mas-Colell is an expert in microeconomics and one of the world's leading mathematical economists. He is the founder of the Barcelona Graduate School of Economics and a professor emeritus in the department of economics at Pompeu Fabra University in Barcelona, Catalonia, Spain. He has also served several times as a Minister in the cabinet of the Catalan government. He has been Secretary General of the European Research Council (July 2009-August 2010). Summarizing his and others' research in general equilibrium theory, his monograph gave a thorough exposition of research using differential topology.[6][7] His textbook on microeconomics, co-authored with Michael Whinston and Jerry Green, is the most used graduate microeconomics textbook in the world.

Mas-Colell is a foreign associate of the United States National Academy of Sciences, a foreign honorary member of the American Economic Association, a fellow of the American Academy of Arts and Sciences, a member of the Academia Europaea, a member of the Institute of Catalan Studies, and a fellow of the Econometric Society. He has been President of the Econometric Society and of the European Economic Association. He has received honorary doctorates from the University of Alicante in Spain, the University of Toulouse and HEC Paris in France, the National University of the South in Argentina, and the University of Chicago in the United States. He is a recipient of the Creu de Sant Jordi, the highest civil honor of Catalonia, and of the King Juan Carlos Prize in Economics. Further information: <http://84.89.132.1/~mcolell/cv.pdf>

The Erasmus lecture is sponsored by the **Heinz-Nixdorf Stiftung** and will be published in a future issue of The European Review.

Heinz Nixdorf Stiftung

Further information about the Heinz-Nixdorf Stiftung: <http://www.heinz-nixdorf-stiftung.de>

Award of a Gold Medal of the Academia Europaea, 2017



Made on 4th September 2017, at the Hungarian Academy of Sciences, Budapest, to;

Professor dr. Helga Nowotny MAE

Citation: This award is only rarely given, and is made "... to those members and non-members of the Academia and to organisations, in recognition of the contribution made to European science through inspiration, public support, management expertise or by financial means. "

The Board of trustees and the Council of the Academia Europaea are pleased to recognise the substantial and sustained contribution that Professor Nowotny has made, to the enabling of and to the development of the European Research Area and systems for direct support and encouragement of European collaborative research and researchers, of all categories.

Professor Nowotny delivered her Gold Medal address during the opening session of the 2017 joint annual meeting of the Academia Europaea-ALLEA and the Young Academy of Europe, on 4th September, 2017.

Title: "Science and Resilience"

BIOGRAPHICAL NOTE:

Helga Nowotny is Professor emerita of Science and Technology Studies, ETH Zurich, and a founding member of the European Research Council. In 2007 she was elected ERC Vice President and from March 2010 until December 2013 President of the ERC. Currently she is Chair of the ERA Council Forum Austria, member of the Austrian Council and Vice-President of the Council for the Lindau Nobel Laureate Meetings. She is Nanyang Technological University Singapore Visiting Professor. She holds a Ph.D. in Sociology from Columbia University, NY. and a doctorate in jurisprudence from the University of Vienna. She has held teaching and research positions at the Institute for Advanced Study, Vienna; King's College, Cambridge; University of Bielefeld; Wissenschaftskolleg zu Berlin; Ecole des Hautes Etudes an Sciences Sociales, Paris; Science Center for Social Sciences, Berlin; Collegium Budapest; Budapest. Before joining ETH Zurich, Professor Nowotny was Professor for Science and Technology Studies at the University of Vienna. Among other, Helga Nowotny is Foreign Member of the Royal Swedish Academy of Sciences and continues to serve on many international advisory boards in Austria and throughout Europe. Just to mention a few she is Member of the Steering Board of the Falling Walls Foundation, President of the Board of Trustees of the Institute for Human Sciences Vienna and Member of the Scientific Advisory Board of the L'Institut d'études avancées de Paris. Helga Nowotny has published widely in Science and Technology Studies, STS, and on social time. Throughout her professional career Helga Nowotny has been engaged in science and innovation policy matters and continues to serve as advisor at national and EU level. From 2001 till 2005 she was Chair of the European Research Advisory Board, EURAB, advising the European Commission.



Further information: <http://www.helga-nowotny.eu/index.php>

The laudation was given by Professor Enric Banda MAE (Barcelona)

The 2017 "Adam Kondorosi" Advanced Research Award



“The Adam Kondorosi Academia Europaea Award for Advanced Research” recognizes landmark research in symbiosis and related fields that has changed our understanding and made a significant scientific impact. It was presented at the Academia Europaea-ALLEA –YAE joint conference for the first time on 5 September 2017 for his work on rhizobial-legume interactions, to:



Professor Allan Downie MAE, [John Innes Centre, UK],

The laudation was given by Professor Jens Stougaard

Award lecture title: **“Symbiotic nitrogen paradigm for inter-kingdom signalling”**.



MAE, Aarhus

fixation: a

Abstract:

Rhizobia are bacteria that enter into an intimate symbiosis with leguminous plants, resulting in the formation of root nodules, in which the bacteria reduce N₂ to ammonia, which is then taken up by the plant, stimulating growth. As the plants senesce, rhizobia from the nodules are released into the soil where they can re-initiate the nodulation process. The infection of legume roots and stimulation of nodule development by rhizobia requires a dialogue to be established between the bacteria and the plant roots. One aspect of this involves attraction of the rhizobia to legume roots and their specific attachment to root hairs. A second aspect is that the legume roots secrete chemical signals (flavonoids and related compounds). These are recognised by rhizobia, stimulating the synthesis of nodulation (Nod) factors, which are acylated chitin oligomers that are decorated with various chemical groups. These Nod factors induce plant responses at extremely low concentrations. One of the earliest observed responses of Nod factors added to legume roots is the induction of an oscillation of calcium levels in and around nuclei of root hairs. A second and independent response induced by Nod factors is an influx of calcium at the root-hair tip and this requires both higher levels of Nod factors and higher structural specificity of Nod factors. The calcium oscillation is required for both nodule development and infection, whereas the calcium influx appears to be specifically associated with initiation of plant-made infection structures. Secreted rhizobial proteins and polysaccharides also play important roles in enabling the rhizobia to initiate infection of legume roots usually via root hairs. Multiple mechanisms of plant bacterial signalling are important to minimise infection by those soil bacteria that will not confer the selective advantage of symbiotic nitrogen fixation. I will explain recent work describing the identification of legume genes associated with these early stages of infection, revealing roles for signalling kinases, cytoskeletal rearrangements, and localised induction of plant-cell-wall remodelling enzymes.

BIOGRAPHICAL NOTE:

After completing my BSc in microbiology (University of Strathclyde) and my PhD in biochemistry (University of Dundee) I worked as a postdoctoral fellow in yeast genetics (University of Rochester, New York) and then as a research fellow at the John Curtin School of Medical Research at the Australian National University. In this latter position I worked in the area of bioenergetics, using biochemical, genetic and molecular biology approaches to analyse oxidative phosphorylation. I was then recruited to a position at the John Innes Centre, where I started working on the nitrogen fixation symbiosis that occurs between rhizobia and their host legumes. After five years I took a position at CSIRO laboratory in Canberra, where I remained for three years before returning to the John Innes Centre. In the following 30 or so years I have been involved with and coordinated several international research programmes in the area of rhizobial-legume research. At the John Innes Centre I became chair of faculty and served on the management board, whilst maintaining an active focus on research. I have always been fascinated by the fact that rhizobia and legumes enter into a dialogue to enable these bacteria to infect legume roots, and induce the development of nodules in which rhizobia differentiate and reduce atmospheric N₂ to ammonia which can be used by the plant. I am now an Emeritus Fellow at the John Innes Centre, where I remain actively involved with research.

“The Adam Kondorosi Academia Europaea Award for Advanced Research” recognizes landmark research in symbiosis and related fields that has changed our understanding and made a significant scientific impact. It will be presented at the Academia Europaea-ALLEA –YAE joint conference for the first time in September 2017 to Professor Allan Downie [John Innes Centre, UK], for his work on rhizobial-legume interactions.

The awards consist of a diploma/medal and prize money. This prize was established in recognition of the significant achievements made in the field of Plant and Microbial Nitrogen Fixation by the late Professor Adam Kondorosi.

Members of the Award Committee:

- Jens Stougaard, ENFC president (chairman)
- Eva Kondorosi, ENFC board
- Sharon Long, Stanford University
- Graham O’Hara, Murdoch University
- Klaus Palme, Academia Europaea
- Mart Saarma, Academia Europaea
- **Luis M. Rubio, ENFC board**



The 2017 Burgen Scholars awards,



The Burgen Scholarships are named in honour of our founding President – Professor **Arnold Burgen FRS MAE**.

They provide recognition to younger European scholars, at the post-doctoral level, who are emerging talents and potential future leaders in their field. Recipients may or may not yet have an established position.

The nomination of candidates is a task given to the members of the Academia Europaea resident in the country that is hosting the annual meeting.

Up to ten awards can be made. The awards cover the costs of attendance and participation in the Annual Conference (registration fees, travel and accommodation).

The Burgen Scholarship award is marked by the presentation of a certificate to the successful candidates, and a book prize generously donated by World Scientific. Costs for attendance and participation are covered by the AE.

A local committee of Academia Europaea members who are responsible for the organisation of the Annual Conference make the final selection of the list of Burgen scholars from amongst those nominated by their fellow national members of the Academia Europaea.



The Academia Europaea in collaboration with World Scientific and The Hungarian Academy of Sciences was pleased to award the 2017 Burgen Scholar awards to:

Éva Dékány
Eva Doka
Balázs Enyedi
Gergely Maróti
Dömötör Pálvölgyi
Balázs Pozsgai
Brigitta Tóth
Péter Vancsó
Deodáth Zuh

(in alphabetical order by family name).



TITLE AND NAME: Dr. Éva Dékány

AFFILIATION: Research Institute for Linguistics of the Hungarian Academy of Sciences
LINK TO WEBPAGE: <http://www.nytud.hu/depts/tlp/dekany/index.htm> |
personal: <https://sites.google.com/site/dekanylinguistics/home>
FIELD OF SCHOLARSHIP: Linguistics

BIOGRAPHICAL NOTE:

Éva Dékány was born on March 18, 1983 in Kecskemét, Hungary. She graduated from Eötvös University (Budapest) as an M.A. in English Language and Linguistics in 2006 and as an M.A. in Theoretical Linguistics (with distinction) in 2007. She pursued a doctoral degree at the Center for the Advanced Study of Theoretical Linguistics at the University of Tromsø between 2007 and 2011, defending her PhD thesis in 2012. Since 2012, she has been working at the Research Institute for Linguistics of the Hungarian Academy of Sciences (RIL HAS). Between 2013 September and 2017 August, she held two successive postdoctoral grants from HAS. In 2016 she received the József Herman Young Researcher's Prize from RIL HAS and the Prima Junior Award from the Prima Primmissima Foundation. As of 2017 September, she is the holder of a Premium postdoctoral grant from the Academy.

DETAILS OF RESEARCH:

Éva Dékány's work has had two main strands: the noun phrase (NP) and (non-finite) clausal subordination. International research shows that the NP has a finer structure than previously thought, but the new results after the late 90's were not applied to Hungarian. She integrated this research into the analysis of the Hungarian NP and set up a new, refined model thereof, which is new both in its details and justification. She was the first to describe and analyze Hungarian classifiers. She provided the first detailed analysis of the possessive -é suffix, and (in co-authored work) the first analysis of Hungarian possessors that can only bear Dative case. She gave the first model of Old Hungarian non-finite embedded clauses and in co-authored work provided the first formal analysis of how Hungarian relative pronouns grammaticalized. She is one of the first linguists to apply formal grammatical models to Khanty and Udmurt in general and embedded clauses in particular. She also collaborates on the 'Comprehensive Grammar Resources: Hungarian' project at RIL HAS that is preparing the most detailed grammatical description of Hungarian to date.

THREE KEY PUBLICATION REFERENCES:

Dékány, Éva. to appear. The Hungarian nominal functional sequence. Studies in Natural Language and Linguistic Theory series. Dordrecht: Springer.

Dékány, Éva. accepted. The position of case markers relative to possessive agreement: variation within Hungarian. Natural Language and Linguistic Theory.

Dékány, Éva. 2015. The syntax of anaphoric possessives in Hungarian. Natural Language and Linguistic Theory 33(4): 1121-1168.



TITLE AND NAME: Dr. Eva Doka

AFFILIATION: National Institute of Oncology, Budapest, Hungary
LINK TO WEBPAGE: <http://www.onkol.hu/en/department-molecular-immunology-and-toxicology-mito>
FIELD OF SCHOLARSHIP: Chemistry

BIOGRAPHICAL NOTE:

Place of studies: University of Debrecen
MSc in Chemistry, 2012
BSc in Mathematics, 2013
PhD in Chemical Sciences, 2016

Thesis: Experimental and Modelling Studies on the Reactions of the Sulfate Ion Radical

Supervisor: Dr. Gábor Lente, Dept. of Inorganic and Analytical Chemistry

Current occupation: Chemist
National Institute of Oncology,
Dept. of Molecular Immunology and Toxicology, Budapest, Hungary

Foreign studies:

Karolinska Institutet, Stockholm	1 month
Tohoku University, Sendai, Japan	2 months

DETAILS OF RESEARCH:

I've been trained in the experimental and computational methods of solution phase reaction kinetics, and the studies of the mechanism of complex redox reactions, mainly regarding environmental chemistry.

I'm currently involved in fundamental biochemical research. Our group has two main lines of interest, the biological actions of hydrogen sulfide, a newly recognized endogenously produced signalling molecule, and the redox regulation of thiol proteins by various posttranslational modifications. A close linker between these subjects are the formation of protein persulfide and polysulfide moieties on cysteine side chains, which was previously shown to regulate enzymatic activities. In our laboratory, we developed a novel experimental method for the detection of protein persulfidation from biological materials such as living cells or tissue samples. Furthermore, we showed that global persulfidation level is tightly regulated by the major disulfide reductase machineries of the cells, the thioredoxin and the glutathione systems. We are currently examining the consequences of this newly recognized functions of the NADPH dependent reductase system on cellular signaling and redox regulation.

THREE KEY PUBLICATION REFERENCES:

Doka, E., et al. Science Advances, 2016, 2, e1500968.

Doka, E., Arnér, E. S. J., Schmidt, E. E., Nagy, P. Methods in Molecular Biology, in press

Peralta, D., et al. Nature Chemical Biology, 2015, 11, 156-63.



TITLE AND NAME: **Balázs Enyedi**, M.D., Ph.D.

AFFILIATION: Department of Physiology, Semmelweis University
FIELD OF SCHOLARSHIP: Cell Biology and Physiology

BIOGRAPHICAL NOTE:

Balázs Enyedi obtained his medical degree with honours from the Semmelweis University, Budapest in 2006. He joined the laboratory of Miklós Geiszt as a graduate student to study the intracellular role of hydrogen peroxide. After completing his PhD thesis in 2011 he was invited as a postdoctoral fellow to Memorial Sloan Kettering Cancer Center (New York) to the laboratory of Philipp Niethammer, where he was funded by the Lucille Castori fellowship. His research interest shifted towards understanding the mechanisms of tissue damage induced inflammation. His discoveries here earned him publications in prominent journals such as Nature Cell Biology and Cell.

Balázs has published close to 20 research and review papers and has been invited to several prestigious Gordon and Keystone conferences as a speaker. He was the recipient of the Junior Prima Prize from the Prima Foundation in Hungary and the Premium Post Doctorate Scholarship of the Hungarian Academy of Sciences. He holds a Starting Grant from the Semmelweis University where he was recently appointed as an Assistant Professor to establish his laboratory in the Department of Physiology.

DETAILS OF RESEARCH:

As a PhD student Balázs focused on understanding the intracellular role and production of reactive oxygen species, mainly hydrogen peroxide (H₂O₂). He was the first to map the level of H₂O₂ in different subcellular compartments and developed highly sensitive and specific genetically encoded H₂O₂ biosensors (Enyedi et al. ARS, 2010 and 2013).

As a postdoctoral fellow Balázs became interested in understanding how epithelial wounding triggers inflammation. Using the zebrafish as a model system he unravelled that injury-induced cell swelling is a central mediator of epithelial wound closure and leukocyte recruitment (Enyedi et al. NCB, 2013). Continuing with this work he showed that nuclear swelling and membrane stretch serves as a sensor and trigger for inflammatory signaling (Enyedi et al. Cell, 2016).

Balázs is currently establishing his research group in the Department of Physiology to continue his work on nuclear mechanobiology and tissue damage detection.

THREE KEY PUBLICATION REFERENCES:

Enyedi B, Jelcic M, Niethammer P.: "The cell nucleus serves as a mechanotransducer of tissue damage- induced inflammation." Cell. 2016 May 19;165(5):1160-70

Enyedi B, Niethammer P.: "Mechanisms of epithelial wound detection." Trends Cell Biol. 2015 Jul;25(7):398-407.

Enyedi B, Kala S, Nikolich-Zugich T, Niethammer P.: Tissue damage detection by osmotic surveillance. Nat Cell Biol. 2013 Sep;15(9):1123–1130.



TITLE AND NAME: **Gergely Maróti** PhD

AFFILIATION: Hungarian Academy of Sciences, Biological Research Center
LINK TO WEBPAGE: http://www.brc.hu/biochem_microbial_genomics.php
FIELD OF SCHOLARSHIP: Biology

BIOGRAPHICAL NOTE:

PhD in Biology (2005), University of Szeged, Hungary
Title of thesis: Insights into the assembly of NiFe hydrogenases
Post-Doctoral position at the J. Craig Venter Institute, Rockville, Maryland, USA. Member of the Synthetic Biology & Bioenergy Team led by the Nobel-Laureate Hamilton O. Smith.

Associate Professor at the Hungarian Academy of Sciences, Biological Research Center since 2012. More than 70 international publications in the field of microbiology.

DETAILS OF RESEARCH:

Symbiotic interactions range from very tight (e.g. organelle endosymbioses) to diffuse associations (e.g. co-localization) with a broad spectrum in between (e.g. predation, parasitism, commensalism, mutualism). These interactions involve elaborate communication between the partners at the cellular level. Our major goal is the discovery of the potential of selected living interactions as specific sources of useful biomolecules and metabolites (e.g. antimicrobial peptides -AMPs-, biofuels, biomaterials, etc.). Microbial associations of various levels are analyzed in details and interrogated for the presence of such products.

THREE KEY PUBLICATION REFERENCES:

Farkas A., Maróti G., Kereszt A. and Kondorosi É. (2017) Comparative analysis of the bacterial membrane disruption effect of two natural plant antimicrobial peptides. Frontiers in Microbiology 8:51, doi: 10.3389/fmicb.2017.00051

Lakatos G., Deák Zs., Vass I., Rétfalvi T., Rozgonyi Sz., Rákhely G., Ördög V., Kondorosi É. and Maróti G. (2014) Bacterial symbionts enhance photo-fermentative hydrogen evolution of Chlamydomonas algae. Green Chemistry 16 (11), 4716 - 4727. doi:10.1039/C4GC00745J

Farkas A., Maróti G., Dürgő H., Györgypál Z., Lima R.M., Medzihradsky K.F., Kereszt A., Mergaert P. and Kondorosi É. (2014) The Medicago truncatula symbiotic peptide NCR247 contributes to bacteroid differentiation through multiple mechanisms. PNAS 111:5183-88



TITLE AND NAME: **Dömötör Pálvölgyi**

AFFILIATION: Eötvös Loránd University (ELTE Budapest), head of MTA-ELTE Combinatorial Geometry Research Group

LINK TO WEBPAGE: <http://www.cs.elte.hu/~dom/>

FIELD OF SCHOLARSHIP: Mathematics

BIOGRAPHICAL NOTE:

Dömötör Pálvölgyi obtained his PhD degree in mathematics from the Ecole Polytechnique Fédérale de Lausanne (EPFL) in 2010, after which he worked in various positions at the Mathematical Institute of the Eötvös Loránd University (ELTE Budapest). He was also a visiting professor at IIT Delhi (2012 spring) and a research fellow at the University of Cambridge (2015-2017). He won the Grünwald Géza medal of the János Bolyai Mathematical Society (2011), the János Bolyai Scholarship of the Hungarian Academy of Sciences (2012), the Postdoctoral Fellowship of the Hungarian Scientific Research Fund (2012), the Marie Skłodowska-Curie Fellowship (IF-EF) of the European Commission (2015) and the Momentum (Lendület) grant of the Hungarian Academy of Sciences (2017).

DETAILS OF RESEARCH:

Dömötör Pálvölgyi mainly works in Combinatorial Geometry, Combinatorics and Theoretical Computer Science. His main focus of research has been in decompositions of multiple coverings and in colorings of geometric hypergraphs. These problems have several applications, related to frequency assignments, sensor covers and similar questions involving partitionings of geometric networks.

THREE KEY PUBLICATION REFERENCES:

Christ T, Pálvölgyi D., Stojakovic M.: Consistent digital line segments, In: ACM PROCEEDINGS OF THE TWENTY-SIXTH ANNUAL SYMPOSIUM ON COMPUTATIONAL GEOMETRY (SoCG'10),. 11-18., 2010.

Keszegh B, Pach J, Pálvölgyi D: Drawing planar graphs of bounded degree with few slopes, Siam J Discrete Math 27(2): 1171-1183, 2013.

Pach J, Pálvölgyi D: Unsplittable coverings in the plane, ADV MATH 302: 433-457, 2016.



TITLE AND NAME: **Balázs Pozsgai**

AFFILIATION: Hungarian Academy of Sciences (Office for Research Groups Attached to Universities and Other Institutions of the Hungarian Academy of Sciences)

LINK TO WEBPAGE: <http://sft.phy.bme.hu/>

FIELD OF SCHOLARSHIP: Physics

BIOGRAPHICAL NOTE:

I obtained an MSc and later a PhD in Physics at the Eötvös University, Budapest. Afterwards I spent 3 years (2010-2012) as a postdoctoral researcher in Amsterdam, at the University of Amsterdam. In the first year I was applied by Jean-Sébastien Caux, and afterwards I got the VENI grant of the NWO (The Netherlands Organisation for Scientific Research). In 2013 I returned to Budapest to work in the recently started research group of Gábor Takács (MTA-BME "Momentum" Statistical Field Theory Research Group), and I also obtained the Magyary Zoltán Fellowship. Currently I am applied by the Hungarian Academy of Sciences through the Premium Postdoctoral Program. In 2014 I won the Hungarian "Junior Prima" prize in the category of "Hungarian Science".

DETAILS OF RESEARCH:

In my research I have been dealing with the so-called Integrable Models of Quantum Mechanics. These are special theories describing interacting many-body systems, that can be solved exactly without the need to use approximate methods or computer simulations. The models that I have been investigating include models of quantum magnetism (the Heisenberg spin chain), interacting quantum gases (the Lieb-Liniger model), or exactly solvable Quantum Field Theories. These models are interesting for two main reasons: First of all it is important to study examples of quantum behaviour where analytic solutions can be found. Second, these models describe real materials and/or can be realized experimentally, and we can give predictions for physical properties of these systems. Recently I have been interested in non-equilibrium situations. One of the fundamental questions is how can the laws of statistical physics be derived from the underlying microscopic quantum theory. Our research played an important role in clarifying the statistical physics of integrable models, which are actually an exception to the standard laws in many respects.

THREE KEY PUBLICATION REFERENCES:

B. Pozsgay et. al, Phys. Rev. Lett. 113 (2014) 117203

B. Pozsgay, J.Stat.Mech. (2014) P06011

B. Pozsgay, J.Stat.Mech. (2011) P01011



TITLE AND NAME: **Dr. Brigitta Tóth**

AFFILIATION: Institute for Soil Sciences and Agricultural Chemistry, Centre for Agricultural Research, Hungarian Academy of Sciences, Herman Ottó út 15., Budapest, Hungary, H-1022 and

Department of Crop Production and Soil Science, Georgikon Faculty, University of Pannonia, Deák F. u. 16, Keszthely, Hungary, H-8360

LINK TO WEBPAGE: <http://mta-taki.hu/en/tagok/toth-brigitta>

FIELD OF SCHOLARSHIP: Agricultural sciences

BIOGRAPHICAL NOTE:

Brigitta Tóth is a senior soil scientist of Institute for Soil Sciences and Agricultural Chemistry, Centre for Agricultural Research, Hungarian Academy of Sciences (ISSAC CAR HAS), Budapest and adjunct professor at the University of Pannonia (UP) in Keszthely, Hungary. She obtained her PhD in soil physics in 2011. Her main research focus is on obtaining information on soil hydraulic properties at local, regional and continental scale to improve our understanding on the role of soils in agricultural production and ecosystems services, and their influence on drought, excess inland water and erosion sensitivity.

DETAILS OF RESEARCH:

In her PhD research she described with mathematical formulas the relationship between simple soil characteristics and soil hydraulic properties. During her PhD studies she was a grant holder at the Politecnico di Milano (Italy) collaborating on joint research publications. She participated in the development of European Hydropedological Data Inventory (EU-HYDI), which was built as a collective effort of 29 institutes from 18 European countries. She was in the core group of coordinating establishment of database structure, data harmonization and description. She was the lead scientist in deriving soil hydraulic predictions for regional and continental scale applications in Europe. In collaboration with Melanie Weynants from Joint Research Centre (JRC) the prediction functions has been implemented in a package, called 'euptf', in the open source R software, which enables the wider access and easier implementation of the prediction methods. With the collaboration of ISSAC CAR HAS, UP, ISRIC-World Soil Information and JRC she supervised the preparation of 3D soil hydraulic maps of Europe at 250 m resolution (EU-SoilHydroGrids). The freely accessible database provides soil hydrological information up to 2 m depth with full continental coverage, which enables hydrological, ecological, atmospherical, agricultural or other environmental modelling at continental and regional scales.

THREE KEY PUBLICATION REFERENCES:

Tóth, B., Weynants, M., Pásztor, L., Hengl, T. 2017. 3D Soil Hydraulic Database of Europe at 250 m resolution. Hydrological Processes. doi: 10.1002/hyp.11203.

Tóth, B., Weynants, M., Nemes, A., Makó, A., Bilas, G. and Tóth, G. 2015. New generation of hydraulic pedotransfer functions for Europe. European Journal of Soil Science. 66: 226–238.

Tóth, B., Makó, A., Guadagnini, A., Tóth, G. 2012. Water retention of salt affected soils: quantitative estimation using soil survey information. Arid Land Research and Management, 26. 103-121.



TITLE AND NAME: **Dr. Péter Vancsó**

AFFILIATION: Institute of Technical Physics and Materials Science, Centre for Energy Research of Hungarian Academy of Sciences, Budapest, Hungary (currently postdoc at University of Namur)

LINK TO WEBPAGE: www.nanotechnology.hu

FIELD OF SCHOLARSHIP: Engineering Science

BIOGRAPHICAL NOTE:

Péter Vancsó graduated in Physics at Eötvös Loránd University, Budapest in 2010. Between 2010-2015 he worked as an Assistant Research Fellow at the Institute of Technical Physics and Materials Science (MFA) in the group of Prof. László P. Biró. He received his Ph. D. in 2015 with a thesis on the electronic properties of graphene. Since 2016, Péter Vancsó has been a postdoctoral researcher at University of Namur, Belgium. In a group led by Prof. Philippe Lambin he is investigating electronic, magnetic and transport properties of different two-dimensional layered materials. He was a recipient of the Young Researcher Award of the Hungarian Academy of Sciences in 2016. Besides his scientific research, he is also active in the popularization of science among high school students.

DETAILS OF RESEARCH:

His main research interest is computational solid-state physics with direct relevance to nanoelectronics. In close collaboration with experimentalists, he is working on novel two-dimensional materials investigating their physical properties and their future potential for electronic applications. During his PhD, he has accomplished achievements in the calculation of transport properties in carbon nanostructures and graphene. Recently, based on detailed calculations, he laid the foundations of a novel nanoelectronic device concept based on graphene nanoribbons which can efficiently control both the charge and the spin signal in a simple three-terminal

field effect transistor configuration. Nowadays, he extended his focus also towards novel two-dimensional materials, such as MoS₂, revealing the major role of native defects in the electronic properties of MoS₂ based devices.

THREE KEY PUBLICATION REFERENCES:

P. Vancsó, I. Hagymási, L. Tapasztó, A magnetic phase-transition transistor with tunable spin polarization. *2D Materials* 4, 024008 (2017).

P. Vancsó, G. Z. Magda, J. Pető, J.-Y. Noh, Y.-S. Kim, C. Hwang, L. P. Biró, L. Tapasztó, The intrinsic defect structure of exfoliated MoS₂ single layers revealed by Scanning Tunneling Microscopy. *Scientific Reports* 6, 29726 (2016).

G. Zs. Magda, X. Jin, I. Hagymási, P. Vancsó, Z. Osváth, P. Nemes-Incze, C. Hwang, L. P. Biró, L. Tapasztó, Room temperature magnetic order on zigzag edges of narrow graphene nanoribbons. *Nature* 514, 608-611 (2014).



TITLE AND NAME: **Deodáth Zuh** PhD

AFFILIATION: Hungarian Academy of Sciences, Research Centre for the Humanities, Institute of Philosophy
FIELD OF SCHOLARSHIP: History of Philosophy, Phenomenology, Philosophy of Art

BIOGRAPHICAL NOTE:

I finished my PhD at the Eötvös Loránt University of Budapest and the Babeş-Bolyai University of Cluj with an investigation in Edmund Husserl's philosophy of knowledge and its beginnings in his philosophy of arithmetic and his seminal but still relevant studies on the logic of signs. Currently I work as a research fellow at the Hungarian Academy of Sciences. Due to my training in German language resp. German philosophy and my constantly growing interest in Austro-Hungarian intellectual history, in the last few years I have made progress in encompassing the partly uncharted territories of Hungarian pre-war intelligentsia. Even though my serious interest in the group of intellectuals around the young Georg Lukács and Béla

Balázs, the very group that underwent serious research not to mention the decade-long process of collecting their records, there is still enough work to do both in processing primary material and in re-evaluating the results of an established scholarship.

DETAILS OF RESEARCH:

In the meantime I work on a monograph which evaluates the life, work and reception of the 20th century Hungarian-born philosopher of art, Arnold Hauser (1892-1978). The work as a whole will be also a detailed account on last century Hungarian intellectual history. Taking cues from Hauser's still unprocessed personal archives I will try to argue for the thesis that the community that gave decisive impulses to the young Hauser, was much more an intellectual incubator than a clear-cut circle of progressive intellectuals. This community let us think of it as the Sunday Circle, but the narrative about its shared general outlook was forged a few decades after it ceased to exist. If anything could have been learnt in this circle was the stunning proximity of concurrent or even contrictory ideas and not a certain mood to contemplate things. Hauser probably learnt here that a thinker's ideas are sociologically bound. But these sociological ties are pertaining to the idea that none of a scholar's theses can perpetuate unless they are widely received and discussed. This applies *mutatis mutandis* to large portions of the history of art: they not only reflect a certain form of social embeddedness, but also a long history of how they resonate with different meanings and in different communities.

THREE KEY PUBLICATION REFERENCES:

2008 „How Do Categorical Representations Influence Everyday Intuition. On Husserl's Early Attempt To Grasp The Horizontal Structure of Consciousness” In: *Studia Universitatis Babeş-Bolyai – Philosophia*. LIII/1–2, pp. 49–62.

2012 “Wogegen wandte sich Husserl 1891? Ein Beitrag zur neueren Rezeption des Verhältnisses von Husserl und Frege”, in: *Husserl Studies* 28, pp. 95–120.

2015 Arnold Hauser and the Multilayer Theory of Knowledge”, in: *Studies in East European Thought* 67 (1 - 2): pp. 41-59.

Scientific Programme of the 29th Annual conference of the Academia Europaea, 3 -6 September, 2017 – Budapest

The conference was jointly organised by Academia Europaea, ALLEA and the Young Academy of Europe and with the patronage of the Hungarian Academy of Sciences. The Trustees would like to thank the officers and staff of these organisations for their cooperation and assistance in creating a memorable event.

Programme

4 September Opening Addresses

László Lovász, President, Hungarian Academy of Sciences
Sierd Cloetingh, President, Academia Europaea
Günter Stock, President, ALLEA
Marcel Swart, Chair of Board, Young Academy of Europe

Prizes Ceremonies and Lectures

Academia Europaea Gold Medal: Helga Nowotny (see above)

All European Academies (ALLEA) Madame de Staël Prize for Cultural Values

Koen Lenaerts: The European Court of Justice in times of societal change
Laudation by Sir David Edward

5 September

Academia Europaea Kondorosi Prize and Lecture - Allan Downie (see above)
Symbiotic nitrogen fixation: a paradigm for inter-kingdom signalling
Laudation by Jens Stougaard
Chair: Pál Venetianer, MTA Biological Research Centre, Szeged

Frontiers of Science Lecture: Reinhard Jahn (Balzan Prize Laureate)
How neurons talk to each other – about molecular machines and membranes
Chair: Ole Petersen

Plenary Session I: Climate, Environment, Water and Future Earth
Moderator: Enric Banda, Barcelona Supercomputing Center and

Speakers:
Georges Vachaud, Directeur de Recherches Emérite, CNRS
Some environmental and social impacts of climate change on the water cycle: from scarcity to submersion
Katharine Hendry, University of Bristol, UK
The physical, biological and chemical fingerprint of melting ice
Steve Evans, Director of research in Industrial Sustainability, University of Cambridge
On the efficiency of our industrial system as a stakeholder in our natural system
Josep Maria Antó, Scientific director at the Barcelona Institute for Global Health
The impacts of climate change in human health: a global bidirectional challenge

Plenary Session II: Economy, Resources, Energy
Moderator: Andreu Mas-Colell, Barcelona

Speakers:
Yan Lavallée, School of Environmental Sciences, University of Liverpool
Towards New Magma Monitoring and Energy Frontiers
Jean-François Minster, Senior Vice President of Scientific Development, Total, France
Projections for the Energy mix transformation; comparison between various approaches
Frederick van der Ploeg, Department of Economics, University of Oxford
Dealing with conflicting view on global warming

Plenary session III: Europe: Culture, Heritage, Integrity, Resilience and Future

Moderators:
Miklós Maróth, Pázmány Péter Catholic University, Piliscsaba
David Edward, Edinburgh Law School

Speakers:
Paul Demeny, Population Council, New York. Sustainability and resilience: Linkages to demography
Ronald de Bruin, COST Association, Brussels. The COST Framework
Éva Kondorosi, European Research Council, Brussels Strengthening the European research system - the role of the ERC

Frontiers of Science Lecture II: José van Dijck. Royal Netherlands Academy of Arts and Sciences. European public values in a global online society.
Chair: Ed Noort, Vice President ALLEA

6 September

Young Academy Prize and Keynote Lecture - Rianne Letschert, Maastricht University:
United in Diversity; on the role of team science in modern universities

Chair: Marcel Swart, Chair of Board YAE

Plenary Session IV: Health and Disease, Healthy Living
Moderators:
Phillip Campbell, Nature and Ruth Arnon, Weizmann Institute

Speakers:
Emily Holmes, Division of Psychology, Karolinska Institutet, Stockholm. Mental Health after Psychological Trauma: Refugees in Europe.
Martin Prince, King's College London. Multimorbidity, frailty and dependence, and their applications to promotion, prevention and delivery of age-appropriate healthcare in low and middle income countries
Michal Schwartz, Department of Neurobiology, Weizmann Institute, Rehovot. Targeting the innate and adaptive immunity in combating neurodegenerative diseases.
Mangala Srinivas, Department of Tumour Immunology, Radboud University Medical Center. Cellular Therapies in Europe: Current Status and Future Possibilities

ACADEMY SHOWCASE SESSION: Academies' advice to policy-making – impact and strategies

Moderator: **Bärbel Friedrich**, Leopoldina, Germany

Speakers:

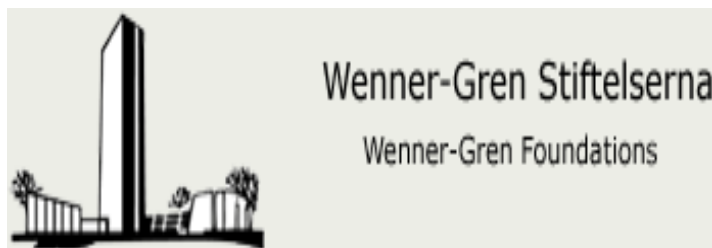
Roger Pfister, Swiss Academies of Arts and Sciences.
Climate hotspot Switzerland: scientific on

resilience and mitigation measures

Sherrie Forrest, The National Academies of Engineering, and Medicine, US: Reimagining Academies in Building Resilience

Frontiers of Science Lecture III. Bertil

Nanyang Technological University, Singapore of Universities



Sciences.
policy advice

Sciences.
the Role of

Andersson,
- The Future

Chair: **Balázs Gulyás**, Nanyang Technological University, Singapore

PLENARY SESSION V Scientific Advice (SAM/SAPEA)

Moderator: Sierd Cloetingh, Academia Europaea

Speakers:

Robert-Jan Smits, European Commission, DG RTD

Rolf-Dieter Heuer, SAM High Level Group

Günter Stock, ALLEA, Chair of the SAPEA board

Yves Caristan, Euro-CASE

Marcel Stewart, YAE

Bärbel Friedrich, Leopoldina

László Lovász, Hungarian Academy of Sciences

Helen Wallace, British Academy

PLENARY SESSION VI - Sustainability and Resilience of European Science

Moderators:

Nicole Grobert, University of Oxford

Stan Gielen, Netherlands Organisation for Scientific Research, The Hague

Speakers:

Monica Dietl, Science-Business, Brussels. No solid Research without Europe, no strong Europe without Research

Alban Kellerbauer, Max Planck Institute for Nuclear Physics, Heidelberg. Resilience of fundamental research

Robert-Jan Smits, European Commission, DG RTD. European Science at the crossroads

Jan-Wouter Vasbinder, Nanyang Technological University, Singapore. What if there were no universities?

Alex Halliday, Royal Society, London. International mobility, joint working and European research

HERCuLES group events 2017

The HERCuLES group, is a thematic standing committee of Council established in 2004. It organises international symposia that are funded by a number of European charitable foundations and encompasses topics relevant to Higher education (in Europe), Educational research and general research issues and issues of emerging impact for the Higher education community, including cultural themes. The group aims to organise a major symposium every year. Symposium volumes are published. Further information can be found via the www.ae-info.org website.

Reported by the Chair of the HERCuLES group – Professor Lars Engwall (Uppsala)

On behalf of the Trustees, I would like to thank the Wenner Gren Foundations (WGF) for the support and sponsorship of the HERCuLES event. The event was attended by over one hundred delegates. Special thanks to Professor Sjöberg the CEO of the WGF and to convenors of the symposium (listed below).

‘Crossing over to the future: Interdisciplinarity in research and higher education’

18 - 20 May 2017

Wenner-Gren Center, Stockholm, Sweden

Background of the symposium

More than fifty years has passed since C.P. Snow in his famous Rede Lecture of 1959 (Snow, C.P. 1964) on the 'two cultures' stressed the duality of the natural sciences and the humanities as a seemingly self-evident reality organizing academic production of knowledge. Snow argued that the university was a divided community with radically different cultures and languages. As is well known, his views have been greatly quoted, challenged and criticized. However, over the decades the contemporary research landscape can no longer be mapped by simple dichotomies. Today the concept of 'interdisciplinarity' has slowly but surely come to the forefront of research interests and is seen as leading the way to answering major research questions, often known as the Grand Challenges, that mankind faces today.

When one views what at present comes most frequently under the heading of the Grand Challenges (climate change, water resources, multiculturalism, migration, energy supplies, etc.) the two most dominant characteristics of this kind of research are encapsulated in the concepts of Inter/Multi/Transdisciplinarity (in the following mentioned as Interdisciplinarity) and the Global Dimension. This stems from the global nature of the Grand Challenges themselves and from the fact that they do not easily fit within the traditional disciplinary boundaries. The complexity implied by interdisciplinary research challenges both research and education within all research domains. Interdisciplinarity in many ways poses challenges both to research and education in all domains of research. The complex nature of crossing boundaries and integrating different lines of thought brings to the forefront a reconceptualization of research itself as well as the education necessary for it. It is not possible to mention all the great thinkers that have stressed and developed the notion of 'interdisciplinarity' over the decades. However, it is necessary to mention the work of Jürgen Mittelstraß (1982), who advocates the necessity of transforming 'empirical knowledge' into 'orientational knowledge' which is by definition culturally defined and socially implemented. Also, the work of Nowotny, Scott and Gibbons (2001) on what is called Mode 2 knowledge production, that is, knowledge production seen as a process for which people come together in temporary networks to work on specific problems in the real world.

No matter whether 'interdisciplinarity' is knowledge-led (research driven), risk (crisis) induced or challenge-driven, 'interdisciplinarity', the basic requirement for scholarly engagement across all research domains is the capacity to adopt a fundamentally open and experimental approach to disciplines, re-search questions as well as their potential for addressing societal issues. Therefore, 'interdisciplinarity' not only aims at crossing the boundaries of disciplines, but is also a challenge for research governance, funding agencies and policy makers. It stresses the necessity of investing in high risk and curiosity driven research initiatives as key drivers for research advancement as well as the developing of new practices and criteria for evaluating research projects and results. However, gaps persist between the widespread rhetoric for support of interdisciplinarity and the realities of practice within the realm of research, the institutional environments in which this research should be carried out. Universities as a rule (with a few exceptions) have not implemented systematic reforms for lowering institutional barriers and creating favourable cultures for both research and education (Klein et al. 2001). With respect to this, experiment and risk often may be controversial principles in those environments that provoke constraints of a political and ideological nature, thus hampering the development of 'interdisciplinarity'. The freedom to follow curiosity-driven research questions in relation to the Grand Challenges is not met with the same enthusiasm everywhere inside and outside the scientific community.

What also has to be recognized is the fact that a particular concentrated effort has to be made to bridge the divide between the hard sciences and the Social Sciences and the Humanities (SSH). This is crucial if we are to address the many-layered problems inherent in the Grand Challenges. Thus, the necessity of raising the level of awareness to bridge gaps and work across boundaries is very much felt throughout the entire research community. However, in turn, this underpins crucial necessities such as mutual understanding and respect especially between the hard sciences and SSH.

Organizing committee

Chair: Milena Žic Fuchs, Zagreb, mzicfuch@ffzg.hr

Erik De Corte, Leuven, erik.decorte@ppw.kuleuven.be

Lars Engwall, Uppsala, lars.engwall@fek.uu.se

Liesbet Geris YAE, Liege, liesbet.geris@ulg.ac.be

Svend-Erik Larsen, Aarhus, litsel@cc.au.dk

Bert Weckhuysen, Utrecht, b.m.weckhuysen@uu.nl

Contents of the symposium

18 May – Opening session

Britt-Marie Sjöberg, Chief Executive Officer of the Wenner-Gren Foundations, Stockholm,
Sierd Cloetingh, President of Academia Europaea, Utrecht,

Presentation of topic and programme by the Convenor Milena Žic Fuchs, Zagreb

Plenary: Interdisciplinarity across science - challenges and opportunities

Chair: Milena Žic Fuchs, Zagreb, mzicfuch@ffzg.hr

David King, Cambridge, Can Interdisciplinary Approaches Meet Our Unique Twenty First Century Challenges?
Bruce Brown, Brighton, The arts and humanities and interdisciplinary research

19 May – **Session 1 Interdisciplinarity in research - obstacles and opportunities**

Chair: Erik De Corte, Leuven, erik.decorte@ppw.kuleuven.be

Jürgen Mittelstrass, Constance. The Order of Knowledge: From Disciplinarity to Transdisciplinarity and Back

Bart De Moor, Leuven. Scientific and technological breakthroughs are induced by inter- and cross-disciplinarity

Chair: Lars Engwall, Uppsala, lars.engwall@fek.uu.se

Verena Winiwarter, Klagenfurt, The other kind of research: Power, epistemological status and subject construction in cross- multi- and inter-disciplinary scholarship

Bert Weckhuysen, Utrecht Central Science and the Grand Challenges: Towards More Chemistry between Scientific Disciplines

Session 2: From research to teaching - principles and programmes

Chair: Svend Erik Larsen, Aarhus, litsel@dac.au.dk

Lars Engwall, Uppsala, Structural Conditions for Interdisciplinarity

Carl Gombrich, London, Implementing Interdisciplinary Curricula

Chair: Theo D'haen, Leuven,

Amir Muzur, Rijeka, Interdisciplinarity as a state of mind: how can individuals and societies reach it?

20 May – **Session 3: Interdisciplinarity and academic career path**

Chair: Liesbet Geris, Liege,

Erin Leahey, Tucson, The Perks, Perils, and Precautions of Engaging in Interdisciplinary Research

Helen Bridle, Edinburgh, Strategies to foster and support interdisciplinary career paths

Hans Op de Beeck, Leuven, Living at the edges of disciplines

Concluding session

Chair: Milena Žic Fuchs, Zagreb

Panel members:

Helen Bridle, Edinburgh

Bruce Brown, Brighton,

Hans Op de Beeck, Leuven

Proceedings will be published in a future supplementary issue of **The European Review** (open access)

Section 5: Academia Europaea outreach.

Over the year, the President and members of the Board of Trustees and the Executive Secretary had discussions with the European Research Council and Commission, ALLEA and other European Academies and pan-European organisations, and with a number of European Charitable Foundations. The Trustees wish to thank in particular members of the Board and Section Chairs, who represented the Academia at a wide range of events.

Individual members of the Board and Council represented the Academia at a number of conferences and other invited events. Bids were prepared to a number of Foundations, in line with the policy to broaden the basis of general financing of the Academy and to support specific developments in the programme of the Academia, including through the new Hubs. These are mentioned where appropriate in the finance sections of this report.

Members of the Young Academy were invited to participate in all events organised by the AE and the AE Hubs. Members of the Board of the YAE were also invited to participate in meetings of the Board of Trustees and Council. Much outreach effort was channelled through the Regional Hubs and relevant outputs have been reported in the Hub reports as described in the annexes to this consolidated report. The President assumed the chairmanship of the international COST research networking mechanism and this has opened up further collaboration opportunities. In addition members of the Board of trustees, notably Prof. Eva Kondorosí and Prof. Sierd Cloetingh participated in a number of joint events with the European Research Council, to promote partnership with former Balkan states in the East. The President and members of the Cardiff Hub were invited to assist in the preparation of an official event as a part of the Estonian Presidency of the European Union. During the year the President and the Executive Secretary held future collaboration meetings with the European Academy of Sciences (EurASC) and the European Academy of Sciences and Arts (Salzburg). The AE became a subscribing member to the European Association of Social Sciences and Humanities (EASSH) with Prof Poul Holm and Svend Erik Larsen as AE delegates. The Ae also continued as a subscribing member of the European Academies Science Advisory Council (EASAC). Prof Don Dingwell represented the AE of the scientific Council. Preliminary discussions were held with the University of Tbilisi and with ACATECH to explore the possibility of two new future AE Regional Knowledge Hubs. The President and other Board members participated in the 2017 Global Science Forum conference held in Jordan.

European research policy and advice

European Science Advisory Council (EASAC), formed by a number of European Academies, and supported by the Academia Europaea provides EU institutions and other pan-national bodies with fully independent advice on the scientific aspects of public policy.

The Academia was a founding member of this Council and collaborates with our sister Academies in making available our members' expertise where needed, for the many study groups that are established. The Academia provides a financial contribution towards the running of the secretariat of EASAC, which is based at the German National Academy of Sciences (Leopoldina) in Halle. The Academia covers the costs of participation of the AE Council member and also AE experts participating in specific study panels



[<http://www.easac.eu/>]. The AE supports a number of members, who provide their individual expertise to EASAC studies and/or are engaged in the standing committees of EASAC. In 2016 these members were:

Professor Don Dingwell (Trustee) AE delegate to the EASAC governing Council;


SAPEA – Scientific Advice for general European Policy (not policy for research)



SAPEA: Science Advice for Policy by European Academies

- Spanning the disciplines of engineering, humanities, medicine, natural sciences and social sciences, **SAPEA** brings together the outstanding knowledge and expertise of Fellows from over 100 Academies, Young Academies and Learned Societies in more than 40 countries across Europe
- SAPEA is part of the [European Scientific Advice Mechanism \(SAM\)](#) which provides independent, interdisciplinary and evidence-based scientific advice on policy issues to the European Commission, working closely with the [SAM High Level Group of Scientific Advisors](#)
- The project is funded through a grant from the EU's Horizon 2020 programme. It runs from November 2016-October 2020.



 = country with at least one Academy

Academies' independence, academic expertise and convening power make them a critical source of evidence for policymakers and the wider public, providing an unbiased, balanced and transparent perspective. Academies within SAPEA are members of one or more of the European Academy Networks: [Academia Europaea](#), [ALLEA](#), [EASAC](#), [Euro-CASE](#) and [FEAM](#). SAPEA will provide a means for closer collaboration between Academies, combining Fellows' expertise in engineering, human, medical, natural, social and technical sciences in a unique way.

All of the Networks' Member Academies across Europe are part of SAPEA and are encouraged to participate actively. Opportunities for involvement include:

- **suggesting scientific topics**
- **communicating their latest major scientific outputs to SAPEA**
- **nominating Fellows** to the SAPEA Working Groups, or other events requiring the advice of an expert (e.g. experts' workshops or stakeholder meetings)
Fellows' travel costs will be reimbursed

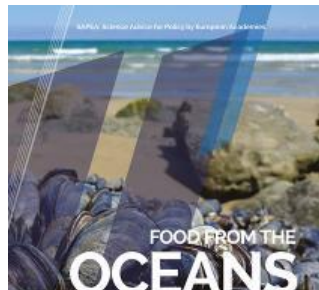
- **hosting Working Group meetings**
direct costs can be covered
- **acting as “Lead Academies”** for a selected scientific topic
- **hosting outreach events**
event support can be provided
- **raising the visibility of Academy work at a European Level** by sharing news of activities with the SAPEA Communications Office for the project website

AE engagement in SAPEA

The Horizon2020 funded project contract with the European Commission was signed started at the end of 2016.

The President is a member of the Board of Management of the project. Prof. Ole (Academic Director of the Cardiff Hub and VP) is our alternate and oversees the work SAPEA Science Policy Officer - Louise Edwards, who is based at the Cardiff Hub. responsible for the day-to-day management of any AE involvement in policy advice and is a member of the project coordination team. The AE Executive Secretary acts project manager in liaison with the central project coordination team. The day-to-day engagement in SAPEA is undertaken by the Science Policy team at the Cardiff Knowledge Hub. Louise Edwards manages the Science Policy work and is supported Dorado Ladaro. During 2017 the AE was the lead network on the first evidence review **Food from The Oceans**. And this was delivered on time to the European Commission with great success. Full information can be found via the official SAPEA (<https://www.sapea.info/>) and also through both the ae-info website [http://www.ae-info.org/ae/Acad_Main/Activities/SAPEA] and the Cardiff Hub website [<http://aecardiffknowledgehub.wales/category/expertise-and-advice/>]. A full report found in the Cardiff Hub annual report at annex

Our intention throughout the project is to work with and through the regional knowledge Hubs and with the Young Academy of Europe to ensure maximum opportunity for involvement of our members. We will also establish an outreach forum of other pan-European organisations to improve linkages and engagement of non-core partner expertise.



SAPEA
Science Academy Policy for European Academies

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The European Review 2017 (volume 25): Four issues were published by Cambridge University Press on behalf of the Academia Europaea during 2017 and made available world-wide. Highlights were in issue (1) The 2015 Heinz-Nixdorf Erasmus Lecture by Professor Edith Hall (given at Darmstadt) – “Aristotle”, and in issue 2 a celebratory focus in honour of member Prof. Erol Gelenbe (Informatics).

Section 6: Events provided with AE patronage in 2017

Section events: 3- 4 September 2017

AE HISTORY & ARCHAEOLOGY SECTION - “ How can History and Archaeology be handmaidens in defining a national or regional (in this case European) identity?”

AE FILM, MEDIA AND VISUAL STUDIES (FMVS) SECTION – “Media as public good and a lever of sustainability”

AE LITERARY AND THEATRICAL SECTION – “Sacrificial narratives”

AE LITERARY AND THEATRICAL SECTION – “Story-telling and Resilience: The Function of Literature in the Overcoming of Trauma”

AE SECTION ON PHYSICS AND ENGINEERING SCIENCES - Inaugural Presentations by New Members of AE from Section B1-3: Physics and Engineering Sciences

Other events:

“ERC – A SUCCESS STORY FOR EUROPE” PRE-CONFERENCE WORKSHOP

“TRAUMA MANAGEMENT, SEARCH FOR IDENTITY, SELFIMAGES AND OTHERNESS IN EAST CENTRAL EUROPE AND BEYOND” convened by Prof. Ivan Denes (Section of History and Archaeology).

Section 7: Corporate information and reports of the Sections (where provided)

Class A1 – Humanities

Class report 2017-2018:

In Class of Humanities (A1) the class as a whole, the sections and individual members have been engaged in various activities:

1. The annual nominations meeting, hosted by Alain Peyraube (section 3) in Paris was held in July 2017. Items on the agenda included, apart from nominations, a first discussion of a class strategy in view of the devolvement of AE activities to the classes and a call to includes neglected disciplines in future nominations.
2. In response to the call from David Coates, the Class has discussed and drafted a strategy with goals and tools for activities for members and activities with members for a two-year period. The drafted version has been submitted to the Board and discussion will continue on the coming nominations meeting.

3. The Class continues the cooperation with EASSH to strengthen the position of SSH disciplines in Europe, in particular in view of FP9 and the follow-up to Hor2020. Poul Holm, section 1, is one of the founding fathers. Members have attended stakeholders' meetings in Brussels with DG6.
4. Sections organized four panels during the last annual AE conference in Budapest before the new downscaled format: section 1 (Nikita Harwich) (papers to be published in European Review), section 4, two panels (Susana Onega one and Vladimir Biti another (papers published)), section 7 (Kirsten Drotner).
5. Class and sections have circulated a number of newsletters and updates to the membership, jointly and separately.
6. Members of the Class, Milena Zič-Fuchs (section 3) and Svend Erik Larsen (section 4), organized a Hercules meeting in Stockholm on Interdisciplinarity in May 2017 with the Wenner-Gren Foundation. Papers in print for European Review. Svend Erik Larsen finished the planning of the next Hercules conference with the Wenner-Gren Foundation to be held in Stockholm May 2019 on bridging between secondary and higher education.
7. In his capacity of vice-president Svend Erik Larsen has chaired the task force to find a new class chair for Class A2 and for a reorganization of the class. He continues to assist Björn Wittrock as the new class chair.
8. Svend Erik Larsen continues as advisory board member in the reorganized Bergen Hub and has participated in the reorganizing process.
9. Members of the Class, Kirsten Drotner and Johan Fornäs (both section 7) and Theo D'haen (section 4 and EIC of European Review), have joined the working group for an AE communication strategy and revision of the website, chaired by Kirsten Drotner. Two reports have been submitted to the Board.
10. Member of the Class, Poul Holm (section 1), has chaired a sub-section on Food from the Ocean on the SAPEA project. A report has been submitted to EU's High Level Group.
11. Section members have organized or are organizing conferences with AE endorsement: Daniela Carpi (section 4), held in Verona, Cinzia Ferrini (section 6), held in Trieste, Nikita Harwich (section 1), to be held with the Wroclaw Hub, September 2018.
12. The Class is planning a panel at the up-coming annual AE meeting in Barcelona, November 2018.

Svend Erik Larsen
Class Chair Humanities/Vice-President

Sections:

History and Archaeology Section: A pre-conference workshop was organized on September 3rd, 2017 at one of the Hungarian Academy of Sciences Library conference rooms. The topic selected was: « How can History and Archaeology be handmaidens in defining a national or regional (in this case European) Identity? ». The papers presented were:

- 1) **Csanád Bálint** (Hungary), « Nationalism and panhistorical perspective in Early Middle Age archaeology »
- 2) **Robert A. Houston** (United Kingdom), « Material culture and social practice: archaeology and history in understanding Europe's 'Celtic fringe' »
- 3) **Robert von Friedeburg** (United Kingdom) « The idea of State in Latin Europe as preserving the rule of law ».
- 4) **Olga Katsiardi-Hering** (Greece) « The role of the archaeology in forming the Greek National identity and its embodiment in the European identity. »
- 5) **Rosa María Martínez de Codes** (Spain) « Reasonable accommodations in a secularized Europe in the face of integration challenges: the debate about legal pluralism and multiculturalism. »
- 6) **Sverre Håkon Bagge** (Norway) « History and Archaeology in the perspective of Ian Morris's works: how handmaidens may interact. »

These papers are presently being edited for publication, as a special dossier, in *the European Review*. – **Nikita Harwich** (Section chair)

Philosophy, Theology and Religious Studies: Another member was added to the committee, Christoph Marksches. Prof. Marksches specialises in Religious Studies and we hope that his addition will contribute to increase the presence and visibility of the Religious Studies area in our section. Other than that, no special activities to report from January to December 2017. **Genoveva Marti** (section chair)

Film, Media and Visual Studies: 6 April: Section committee meeting with nomination of eight new members as key item on the agenda. All nominees were accepted at Class meeting in Paris 7 July. 3 September, 3.00 pm – 6.30 pm - Prior to the annual AE meeting in Budapest, a pre-conference Workshop with two panels: 'Media as public good and as cultural heritage' and 'Media culture as a lever of sustainability'. 4 October - Nomination of two new section committee members: Prof. Fausto Colombo, Università Cattolica del Sacro Cuore, Milan, Italy; and Prof. Maren Hartmann, University of the Arts Berlin, Germany. Circulation of three electronic newsletters to the FMVS membership (January, April, September). **Kirsten Drotner** (section chair).

Literary and Theatrical Studies: The Section has organized two panels at the AE-ALLEA annual meeting in Budapest in September 2017:

1. *Sacrificial Narratives*, attended by six participants (chaired by Vladimir Biti). All papers will be published in the peer-reviewed journal *Frontiers of Narrative Studies* (1/2018)
2. *Story-telling and Resilience: The Function of Literature in the Overcoming of Trauma*, attended by six participants (chaired by Susana Onega).

The Chair and two Section members (Vladimir Biti, Vivian, Liska, Joep Leerssen) have organized the international conference *The Idea of Europe: The Clash of Projections* (Vienna, 8-10 September, 2017), attended by four further Section members and under the auspices of Academia Europaea. Selected papers will be presented in the series European Studies, Brill (Leiden and Boston), and presumably in 2019. **Vladimir Biti** (section chair)

Class A2 – Social and Societal Sciences

Law Section: I. In January 2017 the law section committee voted for new committee members as four members could not run for office again. As new committee members were elected: Nina Dethloff from the University of Bonn, specializing in law and culture, private international law, family law, Rosa Greaves from the University of Glasgow, who is focussing on competition law, maritime law and issues related to the Court of Justice of the European Union and Kurt Seelmann from the University of Bale, a leading expert in philosophy of law, criminal law and medical law. Therefore, now the committee consists of: Verica Trstenjak, Alain Strowel, Rosa Greaves, Nina Dethloff, Kurt Seelmann and Dagmar Coester-Waltjen (the latter as chair).

II. At the Budapest meeting three new members were elected: Professor Dr. Dr. h.c. Walter Pintens from the University of Leuven, Belgium, a highly respected specialist in family and succession law, European private law, comparative law and private international law; Professor Dr. Corjo Jansen from Radboud University Nijmegen who focuses on Roman private Law, history of private law (18th-20th century) and of legal science, on the history of (Dutch) labour law, on law and second World War and on comparative law; and Professor Dr. Harald Eberhard from Vienna University of Economics and Business, a leading expert in Austrian constitutional law. International constitutional law and the law of self-government bodies. All of them have joined the Academia Europaea in the meantime and they will certainly enrich the work of the Academy in many respects.

III. Several members of the Law Section took part in the Budapest meeting, but there was no special meeting or session of the Law Section as such. - **Dagmar Coester-Waltjen** (section chair)

Linguistic Studies: The Section, and especially the Section Committee, was active in proposing nominations of new members. Seventeen nominations were received from members of the Section and backed up by a second nominator. Fifteen of these nominees were considered of good quality and supported by the Section Committee whose members graded and ranked them. Twelve of them have been approved during the Class I meeting for being proposed to be elected. The three who were not elected were considered as having a grade too low and therefore not placed at a sufficiently high rung in the final ranking order to be retained. The twelve nominees were elected during the Annual meeting of the AE in Budapest on September 2017. The geographical distribution of the 12 new members is as follows: 2 FR, 2 IT, 2 RU, 1 BE, 1 DE, 1 ES, 1 HU, 1 PL, 1 SE. Five of them are women.

The Section Chair and two other members of the Committee have been working on the editing of a selection of the papers that were given during the workshop that they have organized on September 2015 in Poznan on "Language endangerment and revitalization" as a satellite meeting of the 45th Poznan Linguistic Meeting. The papers have been published in the last issue of the European Review.

A couple of lectures were delivered in China concerning the activities of AE: at the Shanghai Fudan University on 16th September, at the University of Wenzhou on 27th October, and at the Central China University in Wuhan on the 2nd of November.

Finally, new members were elected in 2014 to the section committee and approved by the Board of AE: Prof. Asifa MAJID (Center for Language Studies at Radboud University, Nijmegen, NL) and Prof. Nigel VINCENT (University of Manchester, UK). They have replaced Prof. Bernard COMRIE (DE) and Prof. Greville CORBETT (UK) whose mandates have expired at the last AGM meeting in Budapest.

For other activities (for instance in the HERCULES programme) involving members of the Section 3, see the report from the Class-1 Chair. - **Alain PEYRAUBE**, Chair of the Section Committee

Class B Natural Sciences:

Physics and Engineering: 1- The Physics and Engineering (P&E) Section members submitted 34 nominations by April 30, 2015. Only one of the candidates was female. Despite encouragement of Section members to nominate more females no progress on this issue has been made. Our Section Committee (SC) was also asked to evaluate five nominees on the Academia Europaea (AE) president's list, one of whom was female. The P&E SC met after the nomination deadline in Prague on 12 May 2017. In this face-to-face SC meeting, the nominations were deeply discussed and critically evaluated. Following the evaluation, the nominations were ranked in a transparent procedure. In the meeting of Class B (Exact and Natural Sciences), which was held at LMU, Munich on 27-28 July, the Section Chairs (Class-B Committee) considered all nominees and discussed the recommendations of the SCs of Sections B1 to B5. For the P&E Section the Class-B Committee approved 27 new members out of the 34 candidates. Furthermore, The Class-B Committee on recommendation of the P&E SC adopted one candidate from the President's list for ordinary membership, and rejected four other President's list candidates.

2- The P&E SC took advantage of the 29th Academia Europaea (AE) Annual Conference (organised jointly with ALLEA), which was held at the Hungarian Academy in Budapest in the period 3-6 September 2017, and organised a workshop in which the new members of the Physics and Engineering Sciences Section of Academia Europaea could give their inaugural lectures. The Convenor and Chair was Muhsin N. Harakeh (KVI, Groningen, The Netherlands) and the Co-convenor and local organiser was Tamás Csörgő (Wigner RCP, Budapest and EKE KRC, Gyöngyös, Hungary). The goal of the workshop was to contribute to the advancement and propagation of excellence in physics and engineering and to the advancement of public education in Europe. Thirty-nine persons attended the workshop and twelve new members gave their inaugural lectures. The workshop was partially supported by the Hungarian Academy of Sciences, the Wigner Research Centre for Physics of the Hungarian Academy of Sciences and three Hungarian grants.

The "Inaugural Presentations Workshop" has been held in the Conference Room of the Library of the Hungarian Academy of Sciences. The location was very nice and the workshop was a very successful event with excellent inaugural talks that have been archived together with some photos of the happening on Wigner's indico page at:

<https://indico.kfki.hu/event/554/timetable/#20170903.detailed> **Muhsin Harakeh** (section chair)

Informatics: On 22 October 2017 the members of the Informatics Section were invited to participate in a section meeting at the European Computer Science Summit, where Dean and professors of Computer Science from all over Europe meet. We had a group of AE-I members and discussed our role in the context of Informatics research and society. We also had presentations of ERCIM, ACM Europe and the leadership of the European Computer Science Summit itself. Of course I as the section head introduced the AE-I to the other organizations as well. **Schahram Dustdar** (section chair).

Mathematics: 1) In 2017, the Section „Mathematics“ as a whole was very active in proposing candidates for nominations. This spirit will be kept for the nomination process in 2018. This was a very valuable support for the work of the Section Committee.

2) The following new members have been elected to the Section;
Béla Bollobás (FRS Cambridge U)
José Burgos Gil (ICMAT Madrid)
Alain Connes (Collège de France)
Martin Grötschel (BBAW)
Alice Guionnet (CNRS/MIT)
Daniel Huybrechts (U Bonn)
Volker Mehrmann (TU Berlin)
Yves Meyer (ENS Cachan)
Alexey Parshin (Steklov Math. Inst., Russian Academy of Sciences)
Caroline Series (U Warwick)
Michel Talagrand (U Paris 6)
Marie-France Vignéras (U Paris 7)

Jürg Kramer (section chair)

Class C Life Sciences:

Physiology and Neurosciences: In 2017, the AE Section of Physiology and Neuroscience had 25 membership nominations, 20 were elected. The Section committee members took an active part ranking the candidates – **Dmitri Rusakov** (section chair)

Clinical and Veterinary Sciences: The Clinical and Veterinary Sciences Section is a new Section and is still growing. Hopefully we will be in good shape next year to start some Section-Related activities. **Stephen Holgate** (section chair)

Biochemistry and Molecular Biology:

1. Statutory participation in selection of new AE Members, including soliciting submission of nomination from all section members, soliciting of opinion on the nominated candidates from all members of the Committee and participation in the Class C meeting in London in the Royal Society
2. Participation in the evaluation of the Erasmus Prize candidates as a member of the Erasmus Award Committee
3. Participation in the Annual Meeting in Budapest and the AE Council meeting
4. Active participation in the Budapest Annual Meeting Pre-conference Workshop “ERC- a success story for Europe”
5. Activities related to the elimination/fusion of some of the Class C sections (acceptance of members from dissolved sections to the Biochemistry & Molecular Biology Section) . **Witold Filipowicz** (section chair).

Reports of the activity of the AE Knowledge Hubs for 2017 are annexed as follows;

Barcelona Knowledge Hub	(Annex 3) -
Bergen Knowledge Hub	(Annex 4) -
Cardiff Knowledge Hub	(Annex 5) -
Wroclaw Knowledge Hub	(Annex 6) -
Graz Information Centre	(Annex 7) -

2017 New members elected

The Council approved the election 247 candidates as follows:

Class A1 (Humanities) – 50 new members; Class A2 (Social and societal sciences) – 17 new members; Class B (Natural Sciences) – 88 new members and Class C (Life Sciences) – 67 new members. At their meeting in November, the Board of Trustees elected five candidates submitted through the President’s list. A full list of these members, allocated by Class and Section is at Annex 6

The Class chairs responsible for oversight of the nominations process in 2017 were:

Class A1 – Humanities and Arts – Sections A1-A6 [Chair Professor Svend Erik Larsen (Trustee)]
Class A2 – Social and related sciences – Sections A7 – A10 [Chair - Professor Larsen (*pro tem* due to the death of Professor Anne Buttmer (Vice President and Trustee)]
Class B – Exact and Natural Sciences – Sections B1 –B5 [Professor Don Dingwell (Trustee)]
Class C – Life Sciences – Sections C1 – C5 [Professor Alex Verkhratsky (Trustee)]

Communications

During the year an A-Z membership directory for 2017 was published, in time for the Budapest AGM. and general leaflets and other printed materials were updated. The Hubs and HQ issued regular electronic newsletters throughout the year. A letter from the President was issued to all members, Young Academy contacts and non AE contacts every two months throughout 2017. The Graz

Data centre maintained the ae-info.org website and both Graz and Wroclaw ensured that member data was updated, including for new members elected in 2017.

Governance meetings held in 2017

The Trustees, Council and their subcommittees

The Board of Trustees met on 17 May 2017, at Stockholm; 3 September at Budapest; 23 November, Barcelona. All meetings were quorate.

The Council met in Budapest on 4 September.

Class meetings to decide on recommended new member lists were held on:

Class A1 (July 7) - Paris

Class A2 (8 May) - Bonn

Class B (27-28 July) - Munich

Class C (28 July) - London

A list of Trustees, Council and Section Committees at December 2017 are at Annex 2

Annual Business Meeting 2017 (AGM)

The 2017 AGM took place at The Hungarian Academy of Sciences, Budapest on 4 September. All members had been given notice of the date, time and place throughout the year and motions from members invited. There had been no motions notified by the deadline. Documents were provided online in advance and at the meeting. The President was in the Chair. There were 53 members present. The minutes of the 2016 AGM were approved and signed.

The Chair welcomed members to Budapest and thanked the President of the Hungarian Academy for his kind hospitality in hosting the AGM. In a departure from normal meetings, The AGM was split into two parts: The first was the Presentation of the 2017 Burgen Scholars to the members (see below) and also the welcome to 55 new members of the AE who were present and who had been elected in 2016.

The Second part was the 29th AGM business meeting. The following motions were put to members present and were duly adopted:

4.1 The Board of Trustees recommend that the AGM do elect Professor Sierd Cloetingh to a second and final term as President.
Approved

5.1 The AGM adopted the 2016 Trustees (activity) report.

5.2.1 The AGM adopted the 2016 financial report and audited accounts.

5.2.2 The AGM re-appointed the auditors.

5.2.3 The AGM approved the 2018 members' financial contributions as follows (with one objection):

Member 64 years of age and below 150 Euros; Members under 75 years of age 85 Euros; Foreign members 80 Euros; Members over 75 years of age a voluntary donation of any amount (minimum 35 Euros)

In addition the AGM noted a launch of calls for nominations for candidates as Treasurer and for a Vice President.

Reports were given as follows:

SAPEA (President); EASAC (Prof. Dingwell); Barcelona Hub (Prof. Guerrero); Wroclaw Hub (Ms Kasia Majkowska). Cardiff Hub (Ms Edwards)

The President announced that the 2018 AGM would take place at Barcelona on 28 November 2018

The meeting was closed at 16:00

Section 8: Statement of Trustees' Responsibilities

The Trustees (who are also the directors of The Academia Europaea for the purposes of company law) are responsible for preparing the Trustees' Report and the financial statements in accordance with applicable law and United Kingdom Accounting Standards (United Kingdom Generally Accepted Accounting Practice).

Company law requires the trustees' must not approve the financial statements unless they are satisfied that they give a true and fair view of the state of affairs of the charitable company and of the incoming resources and application of resources, including the income and expenditure, of the charitable company for that period. In preparing these financial statements, the trustees are required to:

- select suitable accounting policies and then apply them consistently;
- observe the methods and principles in the Charities SORP;
- make judgements and estimates that are reasonable and prudent;
- prepare the financial statements on the going concern basis unless it is inappropriate to presume that the charitable company will continue in operation.
- state whether applicable UK Accounting Standards have been followed, subject to any material departures disclosed and explained in the financial statements; and

The Trustees are responsible for keeping accounting records that are sufficient to show and explain the company's transactions and disclose with reasonable accuracy at any time the financial position of the charitable company and enable them to ensure that the financial statements comply with the Companies Act 2006. They are also responsible for safeguarding the assets of the charitable company and hence for taking reasonable steps for the prevention and detection of fraud and other irregularities.

In so far as the Trustees are aware:

- there is no relevant audit information of which the charitable company's auditor is unaware; and
- the trustees have taken all steps that they ought to have taken to make themselves aware of any relevant audit information and to establish that the auditor is aware of that information.

The Trustees are responsible for the maintenance and integrity of the corporate and financial information included on the charitable company's website. Legislation in the United Kingdom governing the preparation and dissemination of financial statements may differ from legislation in other jurisdictions.

Risk assessment

The Trustees have assessed the major risks to which the charity is exposed, in particular those relating to the operations and finances of the charity and for BREXIT and are satisfied that systems are in place to mitigate our exposure to these risks. However, the situation will be kept under constant review.

Financial Report

The Trustees confirm that suitable accounting policies have been used and applied consistently and that reasonable and prudent judgements and estimates have been made in the preparation of the financial statements for the year January 2017 - 31 December 2017. The Trustees also confirm that applicable accounting standards have been followed and that the financial statements have been prepared on the going concern basis. The assets are available and adequate to fulfil obligations on a fund - by - fund basis.

The Academia is required by UK law to present its accounts in sterling. A version expressed in Euros could be prepared by converting the figures at the exchange rate for a particular date, but this would not be accurate since transactions are spread across the financial year, during which a range of exchange rates have existed. Any significant foreign exchange impacts are described in the notes to the accounts. The full accounts have been published separately to the activity report.

Reserves policy

The total funds for the year ended 31 December 2017 was £178,050 [YE 31 December 2016, £278,066]. It is the policy of the trustees to maintain sufficient reserves for the Academia Europaea to continue its charitable activities and in view of this, the trustees aim to achieve reserves equal to approximately six months of operations. A review of reserves policy will be undertaken every year.

Income and expenditure for the period ended 31 December 2017 (summary overview)

The year was one of progress towards stability. Our total income for the year was £424,890. Total expenditure was £542,906. The balance of funds brought forward to 2017 from 2016 was £278,066. In addition to normal income and expenditure, the accounts also reflect income and expenditures associated to the European Commission SAPEA grant. The AE benefits from overhead associated with our involvement in this project activity.

The AE as a charity seeks to operate an effective zero balance budget. We are essentially dependent upon members' donation income and in 2017 this was at £181,468 and life membership payments totalled £15,100. This represented a positive increase over previous years. The Trustees stress to all members, the importance of supporting the Academia by making a donation every year, preferably at the recommended level. Without more members making a payment, the AE will not be able to grow the range and type of activity and support for member initiatives that we all hope for. Whilst a voluntary scheme remains our policy, the Trustees reviewed this policy in November and decided to levy a simplified recommended general fee rate, linked to age-related banding for annual donations, per member. Sponsorship continued to be successful for individual activity, and we thank the Wenner Gren Foundations (Sweden), The Heinz-Nixdorf Foundation (Germany), The Balzan Foundation (Switzerland) and World Publishing Ltd (Singapore) for their support and the support of other sponsors, especially the Hungarian Academy of Sciences the Caixa Foundation (Barcelona) and our Patron member The German Academy of Sciences (Leopoldina). The Board continued to recognise the ongoing difficulty in obtaining core financial support from public and private institutions.

The full audited accounts for 2017 have been filed and can be viewed through the Academia Europaea website; the UK government Companies House and the Charities Commission of England and Wales websites respectively.

Signed on 4 September 2017 by:

A handwritten signature in blue ink, consisting of several loops and a long horizontal stroke at the end.

Professor Sierd Cloetingh (President)

A handwritten signature in blue ink, starting with a small 'O' and 'P' followed by a long, sweeping horizontal line.

Professor Ole Petersen (acting Treasurer)

Annex 1: Members elected in 2017 and who subsequently accepted an invitation into membership

Class A1 – Humanities – Chair: Professor Svend Erik Larsen (DK)

Full name	Country	Membership type
<u>History & Archaeology (9)</u>		
	c. Nikita Harwich-Vallenilla	
Amacher Korine	Switzerland	ORDINARY
Huret Romain	France	ORDINARY
Kołodziejczyk Dariusz	Poland	ORDINARY
Lucena-Giraldo Manuel	Spain	ORDINARY
Marland Hilary	United Kingdom	ORDINARY
Roebroeks Wil	The Netherlands	ORDINARY
Sallmann Jean-Michel	France	ORDINARY
Schmale Wolfgang	Austria	ORDINARY
Versluys Miguel John	The Netherlands	ORDINARY
<u>Classics & Oriental Studies (6)</u>		
	c. Irmela Hijiya-Kirschner	
Bowring Richard	United Kingdom	ORDINARY
Buzi Paola	Italy	ORDINARY
Frellesvig Bjarke	United Kingdom	ORDINARY
Olmez Mehmet	Turkey	ORDINARY
Pollmann Karla	United Kingdom	ORDINARY
Smith Christopher	Italy	ORDINARY
<u>Linguistic Studies (15)</u>		
	c. Alain Peyraube	
Delfitto Denis	Italy	ORDINARY
Fanego Teresa	Spain	ORDINARY
Gullberg Marianne	Sweden	ORDINARY
Kouteva (Kuteva: in publications) Tania	Germany	ORDINARY
Raducheva (Падучева) Elena Viktorovna (Елена Викторовна)	Russia	ORDINARY
Plungian Vladimir	Russia	ORDINARY
Rouvet Alain	France	ORDINARY
Sornicola Rosanna	Italy	ORDINARY
Salvi Giampaolo	Hungary	ORDINARY
Schlenker Philippe	France	ORDINARY
Verschueren Jef	Belgium	ORDINARY
Witkoś Jacek	Poland	ORDINARY
Antonio LOPRIENO	Italy	Ordinary
<u>Literary & Theatrical Studies (6)</u>		
	c. Vladimir Biti	

Bayer Gerd	Germany	ORDINARY
Johnston David	United Kingdom	ORDINARY
Lavocat Françoise	France	ORDINARY
Milutinovic Zoran	United Kingdom	ORDINARY
Valdeon Garcia Roberto	Spain	ORDINARY
Vayenas Nasos	Greece	ORDINARY
<u>Musicology & History of Art & Architecture (5)</u>	c. Laurenz Lutteken	
Antonelli Paola	United States	FOREIGN
Fleckner Uwe	Germany	ORDINARY
Hentschel Frank	Germany	ORDINARY
Page Christopher Howard	United Kingdom	ORDINARY
Vidal Fernando	Spain	ORDINARY
<u>Philosophy, Theology & Religious Studies (5)</u>	c. Genoveva Marti	
Casati Roberto	France	ORDINARY
Fidora Alexander	Spain	ORDINARY
Langton Rae	United Kingdom	ORDINARY
Zonta Mauro	Italy	ORDINARY
<u>Film, Media and Visual Studies (8)</u>	c. Kirsten Drotner	
Gripsrud Jostein	Norway	ORDINARY
Hediger Vinzenz	Germany	ORDINARY
Hepp Andreas	Germany	ORDINARY
Hjarvard Stig	Denmark	ORDINARY
Liandrat-Guigues Suzanne	France	ORDINARY
Somainsi Antonio	France	ORDINARY
Schrøder Kim Christian	Denmark	ORDINARY
de Leeuw Sonja	The Netherlands	ORDINARY

Class A2 - Social and Societal sciences: Class chair vacant (pro tem Svend Erik Larsen (from 1 January 2018 Bjorn Wittrock Sweden))

Full name	Country	Membership type
<u>Behavioural Sciences (5)</u>	c. Peter Scott	
Bekkering Harold	The Netherlands	ORDINARY

Roelofs Karin	The Netherlands	ORDINARY
Ullén Fredrik	Sweden	ORDINARY
Sharvashidze George	Georgia	ORDINARY
<u>Social Sciences (7)</u>	c. Antoine Bailly	
Amundsen Eirik Schrøder	Norway	ORDINARY
Demeny Paul	United States	FOREIGN
Gönczöl Katalin	Hungary	ORDINARY
Kalmijn Matthijs	The Netherlands	ORDINARY
Mulder Clara	The Netherlands	ORDINARY
Thomas Isabelle	Belgium	ORDINARY
Wihtol de Wenden Catherine	France	ORDINARY
<u>Law (4)</u>	c. Dagmar Coester-Waltjen	
Eberhard Harald	Austria	ORDINARY
Jansen Corjo	The Netherlands	ORDINARY
Pintens Walter	Belgium	ORDINARY
Letschert Rianne	The Netherlands	ORDINARY
<u>Economics, Business and Management Sciences (4)</u>	c. Klaus Zimmermann	
Feichtinger Gustav	Austria	ORDINARY
Horváth Július	Slovakia	ORDINARY
Jurajda Štěpán	Czech Republic	ORDINARY
Luptáčík Mikuláš	Slovakia	ORDINARY

Class B - Exact and Natural Sciences: Chair Don Dingwell (D)

Full name	Country	Membership type
<u>Mathematics (14)</u>	c. Jurg Kramer	
Bollobas Bela	United Kingdom	ORDINARY
Burgos Gil Jos Ignacio	Spain	ORDINARY
Connes Alain	France	ORDINARY
Grotschel Martin	Germany	ORDINARY

Guionnet Alice	France	ORDINARY
Huybrechts Daniel	Germany	ORDINARY
Mehrmann Volker	Germany	ORDINARY
Meyer Yves	France	ORDINARY
Parshin Alexey	Russian Federation	ORDINARY
Series Caroline	United Kingdom	ORDINARY
Talagrand Michel	France	ORDINARY
Vignerat Marie-France	France	ORDINARY
Informatics (15)	c. Schahram Dustdar	
Buneman Peter	United Kingdom	ORDINARY
Cai Jin-Yi	United States	FOREIGN
Cioabanu Gabriel	Romania	ORDINARY
Fan Wenfei	United Kingdom	ORDINARY
Fiadeiro Jose	United Kingdom	ORDINARY
Gutin Gregory	United Kingdom	ORDINARY
Kolaitis Phokion	United States	FOREIGN
Li Xuelong	China	FOREIGN
Mirkin Boris	Russian Federation	ORDINARY
Nuseibeh Bashar	United Kingdom	ORDINARY
Przulj Natasa	United Kingdom	ORDINARY
Wang Dongming	France	ORDINARY
Zhou Zhi-Hua	China	FOREIGN
Physics & Engineering Sciences (34)	c. Muhsin Harakeh	
Baughman Ray	United States	FOREIGN
Campbell David	France	ORDINARY
Cavalleri Andrea	Germany	ORDINARY
Davis Stephen	United States	FOREIGN
Fernandez San Juan Miguel Angel	Spain	ORDINARY
Friedman Jerome	United States	FOREIGN
Glashow Sheldon	United States	FOREIGN
Guzzella Lino	Switzerland	ORDINARY
Huang Yonggang	United States	FOREIGN
Jajszczyk Andrzej	Poland	ORDINARY
Kalantar-Nayestanaki Nasser	The Netherlands	ORDINARY
Knoll Wolfgang	Austria	ORDINARY
Krasznahorkay Attila	Hungary	ORDINARY
Krimigis Stamatios	Greece	ORDINARY
Li Baowen	United States	FOREIGN
Maj Adam	Poland	ORDINARY
Meschke Gunther	Germany	ORDINARY
Nenciu Gheorghe	Romania	ORDINARY
Ordejon Pablo	Spain	ORDINARY
Procaccia Itamar	Israel	ORDINARY
Rammerstorfer Franz G.	Austria	ORDINARY
Ravichandran Guruswami	United States	FOREIGN

Talkner Peter Wolfgang	Germany	ORDINARY
Tribble Robert	United States	FOREIGN
Vina Luis	Spain	ORDINARY
Wiescher Michael	United States	FOREIGN
Wojs Arkadiusz	Poland	ORDINARY
Carvalho Maria da Graça	Portugal	ORDINARY
Van Saarloos Wim	Netherlands	ORDINARY
<u>Chemical Sciences (24)</u>	c. Graham Hutchings	
Ashfold Michael	United Kingdom	ORDINARY
Cooper Andrewlan	United Kingdom	ORDINARY
Davis Benjamin	United Kingdom	ORDINARY
de Leeuw Nora Henriette	United Kingdom	ORDINARY
Genet Jean-Pierre	France	ORDINARY
Grey Clare	United Kingdom	ORDINARY
Havenith-Newen Martina	Germany	ORDINARY
Huck Wilhelm	The Netherlands	ORDINARY
Illas Francesc	Spain	ORDINARY
Jeziorski Bogumil	Poland	ORDINARY
Morris Russell	United Kingdom	ORDINARY
Mullen Klaus	Germany	ORDINARY
Wittung Stafshede Pernilla	Sweden	ORDINARY
<u>Earth & Cosmic Sciences (23)</u>	c. Paolo Papale	
Aharonian Felix	Ireland	ORDINARY
Baumjohann Wolfgang	Austria	ORDINARY
Bean Christopher	Ireland	ORDINARY
Benning Liane G.	Germany	ORDINARY
Bopp Laurent	France	ORDINARY
Burton Mike	United Kingdom	ORDINARY
Capaccioli Massimo	Italy	ORDINARY
Carrera Ramirez Jesus	Spain	ORDINARY
Chiarabba Claudio	Italy	ORDINARY
Dias Frederic	Ireland	ORDINARY
Gottsmann Joachim	United Kingdom	ORDINARY
Gvishiani Alexey	Russian Federation	ORDINARY
Holtz Francois	Germany	ORDINARY
Ismail-Zadeh Alik	Russian Federation	ORDINARY
Jolivet Laurent	France	ORDINARY
Koskinen Hannu	Finland	ORDINARY
Kundzewicz Zbigniew	Poland	ORDINARY
Li Zhao-Liang	France	ORDINARY
Marshall David	United Kingdom	ORDINARY
Oganov Artem	United States	FOREIGN
Sigmundsson Freysteinn	Iceland	ORDINARY
Urge-Vorsatz Diana	Hungary	ORDINARY

Class C – Life Sciences: Chair Alex Verkhatsky; Vice-chair Robert Zorec

Full name	Country	Membership type
Biochemistry & Molecular Biology (19)		
c. Witold Filipowicz		
Anderluh Gregor	Slovenia	ORDINARY
Courvalin Patrice	France	ORDINARY
de Visser Karin E.	The Netherlands	ORDINARY
Di Lisa Fabio	Italy	ORDINARY
Hooper Nigel	United Kingdom	ORDINARY
Jerala Roman	Slovenia	ORDINARY
Konarska Maria Magdalena	Poland	ORDINARY
Lopez-Carrascosa Jose	Spain	ORDINARY
Schumacher Ton	The Netherlands	ORDINARY
Soreq Hermona	Israel	ORDINARY
Timmers Marc	Germany	ORDINARY
Vendruscolo Michele	United Kingdom	ORDINARY
Wollman Francis-Andre	France	ORDINARY
Zima Tomas	Czech Republic	ORDINARY
Sjöberg Britte-Marie	Sweden	ORDINARY
Cell and Development Biology (8)		
c. Margaret Buckingham		
Arendt Detlev	Germany	ORDINARY
Cramer Patrick	Germany	ORDINARY
Disanto James	France	ORDINARY
Ellenberg Jan	Germany	ORDINARY
Natoli Gioacchino	Italy	ORDINARY
van Meer Gerrit	The Netherlands	ORDINARY
Physiology and Neuroscience (25)		
c. Dmitry Rusakov		
Avsic Zupanc Tatjana	Slovenia	ORDINARY
Beckmann Christian	The Netherlands	ORDINARY
Brown Dennis	United States	FOREIGN
Cannon Barbara	Sweden	ORDINARY
den Hollander Anneke	The Netherlands	ORDINARY
El Manira Abdeljabbar	Sweden	ORDINARY
Eschenhagen Thomas	Germany	ORDINARY
Kokaia Zaal	Sweden	ORDINARY
Kullmann Dimitri	United Kingdom	ORDINARY
Laurent Gilles	Germany	ORDINARY
Lauritzen Martin	Denmark	ORDINARY
Mantovani Alberto	Italy	ORDINARY
Markram Henry	Switzerland	ORDINARY

Miesenboeck Gero	United Kingdom	ORDINARY
Ottersen Ole Petter	Norway	ORDINARY
Schuman Erin	Germany	ORDINARY
Shigemoto Ryuichi	Austria	ORDINARY
Van Opstal John	The Netherlands	ORDINARY
Zip Frauke	Germany	ORDINARY
Organismic & Evolutionary Biology (9)	c. Christophe Thebaud	
Ahlberg Per Erik	Sweden	ORDINARY
Forterre Patrick	France	ORDINARY
Navarro Arcadi	Spain	ORDINARY
Parker Jane	Germany	ORDINARY
Sole Ricard	Spain	ORDINARY
Zhang Zhibin	China	FOREIGN
Applied & Translational Biology (3)	c. Anne Gro Salvanes	

Clinical and Veterinary Science (26)	c. Stephen Holgate	
Barton Matthias	Switzerland	ORDINARY
Ceron Jose	Spain	ORDINARY
Cohen Jonathan	United Kingdom	ORDINARY
Drenth Joost PH	The Netherlands	ORDINARY
Giamarellou Helen	Greece	ORDINARY
Goldblatt David	United Kingdom	ORDINARY
Ingelman-Sundberg Magnus	Sweden	ORDINARY
Lomas David	United Kingdom	ORDINARY
Merkely Bela Peter	Hungary	ORDINARY
Owen Michael	United Kingdom	ORDINARY
Piguet Vincent	United Kingdom	ORDINARY
Ray David William	United Kingdom	ORDINARY
Rovers Maroeska	The Netherlands	ORDINARY
Seeger Werner	Germany	ORDINARY
Soria Jean-Charles	France	ORDINARY
Tendera Michal	Poland	ORDINARY
Trauner Michael	Austria	ORDINARY
Vandenbroucke-Grauls Christina	The Netherlands	ORDINARY
Verdonschot Nico	The Netherlands	ORDINARY
Webb David	United Kingdom	ORDINARY
Whyte Moira	United Kingdom	ORDINARY
Wilkins Martin	United Kingdom	ORDINARY
Zitvogel Laurence	France	ORDINARY
Mocsai Attila	Hungary	ORDINARY
Allison David	United States	FOREIGN

Annex 2 Trustees, Council, and Section Committee composition as at 31st December 2017

At the AGM in September 2015, the Regulations were amended to allow the appointment by the Board of a variable number of Vice Presidents (ex officio) to provide flexibility to the President and that serve a VP term limited to that of the President. These changes are within the overall limits set for the Trustees in the Articles of Incorporation and do not impact on the role or seniority of the elected officers. The Articles prescribe a Board made up of not less than 3 and NOT MORE than 15 members. The Articles describe a Board made up of elected officers (President, Vice Presidents and the Treasurer – all elected by the general meeting); a number of members (appointed by the Council) and a number of co-opted (by the Board) members. The subsidiary Regulations are used to determine numbers and balance up to the limit of 15. The current formula is: President, elected Vice presidents (up to 2 were approved by AGM in 2012); Treasurer. Three members appointed from the Council.

In November 2015 the Board approved the designation of several existing Trustees as Vice Presidents ex officio, to reflect new portfolios. These were Professor Dingwell (Class Chair); Professor Svend Erik Larsen (Class Chair) and Professor Ole Petersen (Class Chair, later acting Treasurer). Governance and incorporation documents can be found on the website (www.ae-info.org).

Members of the Board of Trustees (at 31st December 2017)

The President – Prof. Sierd Cloetingh (Utrecht) from AGM 2014 to AGM 2020

The Treasurer – Prof. Ole Petersen (Cardiff) to AGM 2018, Vice president (*ex officio*)

The Vice President – Prof. Anne Buttner (Dublin) until 2018 (deceased in 2017)

Theo D'Haen, (B) (Editor-in-chief – European Review – co-opted 2014);

Svend Erik Larsen (DK) – Class chair – Class A1 (Humanities) co-opted Vice President *ex officio*;

Don Dingwell (D) – Class Chair – Class B (Natural Sciences) co-opted Vice President *ex officio*;

Alex Verkhatsky (UK) – Class Chair – Class C (Life Sciences) co-opted Vice president *ex officio*;

Balazs Gulyas (HUN) (co-opted until end of 2017);

Eva Kondorosi (HUN) from January 2016, co-opted

Alain Peyraube (Linguistics) France – from Council

Kirsten Drotner (Film, Media and Visual Studies) Denmark – from Council

Dagmar Coester-Waltjen (Law) Germany – from Council

Academia Europaea - Composition of the Advisory Council (at 31 December 2016)

All terms of office are three years, with the possibility of renewal for one further period of three years. Positions on subcommittees are not time-limited. **Since September 2006 Chairs of Sections are all full members of the Council.** From 1st January, 2008 all Section chairs serve a three year term (renewable once) on Council. The first date of retirement for them was 31 December 2010. The Trustees (Officers) are *de facto* members of the Advisory Council.

	Sectn.	First appoint.	Reappoint	Retire
<u>President*</u>			2017	2020
<u>Vice-President(s)*</u>				2018
<u>Treasurer* [pro tem]</u>				2017

Independent Council Members elected by AGM

Laszlo Csernai, Bergen	B3	Sept 2013	2016	2019
Marie Farge, Paris	B3	Sept 2013	2016	2019
Xavier COSTA-GUIX		June 2016	2019	

Plus all the Chairs of Sections (as follows).

Academia Europaea Section Committees Chairpersons and Committee Members¹

At 31 December 2017

CLASS A1

A1 History & Archaeology

Chairperson²: Nikita Harwich Vallenilla (until AGM 2019)⁴

harwich.nikita@noos.fr

University of Paris X-Nanterre, 35 Rue de Noailles, 78100 Saint-Germain-en-Laye, France

Committee³: Graeme Barker (till AGM 2019), Pieter Emmer (till AGM 2019), Nicholas Canny (till AGM 2019), Michael North (till AGM 2019), Ryszard Stemplowski (till AGM 2019); Amalia Polónia, (till AGM 2019, renewable); Olga Katsiardi-Hering (till AGM 2019, renewable), Renate Pieper (till end of December 2019)

A2 Classics & Oriental Studies

Chairperson: Irmela Hijjya-Kirschner (from AGM 2016 to 2019, renewable)

i.hijjya@fu-berlin.de

Hittorfstr. 18 D-14195 Berlin

* Members of the Board (of Management)

Committee: Carmela Baffioni (till AGM 2017), Irene de Jong (till AGM 2017), Juha Janhunen (till AGM 2017), Barbara Borg (till AGM 2019, renewable), Gerd Haverling (till AGM 2019, renewable), Eun-Jeung Lee (till AGM 2019, renewable), Alexander Lubotsky (till AGM 2019, renewable)

A3 Linguistic Studies

Chairperson: Alain Peyraube (until AGM. 2019)

peyraube@ehess.fr

Ecole des Hautes Etudes en Sciences Sociales, 54 Bvd. Raspail, 75006, Paris, France

Committee: Bernard Comrie (till AGM 2017), Maria Koptjevskaja–Tamm (till AGM 2019), Greville Corbett (till AGM 2017), Wolfgang Dressler (till AGM 2019), Pier Marco Bertinetto (first term ends AGM 2017, renewable), Katarzyna Dziubalska-Kolaczyk (first term ends AGM 2017, renewable)

A4 Literary & Theatrical Studies

Chairperson: Vladimir Biti (to end of 2018, renewable)

vladimir.biti@univie.ac.at http://www.ae-info.org/ae/User/Biti_Vladimir

University of Vienna, Institut für Slawistik, Spitalgasse 2-4, Hof 3, 1090 Vienna, Austria

Committee: César Domínguez, Marko Juvan (to end 2017), Lucia Boldrini (to end 2017, renewable), Susana Onega (to end 2017, renewable)

A5 Musicology & History of Art & Architecture

Chairperson: Laurenz Lütteken (till AGM 2019, renewable)

University of Zurich. luetteken@access.uzh.ch

http://www.ae-info.org/ae/Member/L%C3%BCtteken_Laurenz

Committee: David Hiley (till December 2017), Christian Leitmeir, Lynda Nead, Raphael Rosenberg, Victor Stoichita, Valeska von Rosen (all till December 2017, renewable)

A6 Philosophy, Theology & Religious Studies

Chairperson: Genoveva Martí (till AGM 2019, renewable)

ICREA and Universitat de Barcelona, Departament de Filosofia, Montalegre 6, 08001 Barcelona

genoveva.marti@gmail.com

Committee: Claudine Tiercelin, Wlodek Rabinowicz (all until AGM of 2018, all renewable), Tim Crane (until end 2019), Christoph Marksches (till end of 2020, renewable)

A7 Film, Media and Visual Studies (created at the AGM of September 2015)

Chairperson: Kirsten Drotner (from AGM 2015 – AGM 2018, renewable)

drotner@sdu.dk

Institute for the Study of Culture - Media Studies, University of Southern Denmark, Campusvej 55, 5230 Odense M, Denmark

Committee: Professors Daniel Biltereyst, Göran Bolin, Patrizia Lombardo (all to AGM of 2018, renewable); Professor Fausto Colombo (to end of 2020, renewable), Professor Maren Hartmann (to end of 2020, renewable)

CLASS A2

A8 Behavioural Sciences

Chairperson: Peter Scott (to AGM 2019)

p.scott@ioe.ac.uk <https://www.ioe.ac.uk/staff/51229.html>

University of London, Institute of Education, 20 Bedford Way, London WC1H 0AL, UK

Committee: Terrie E. Moffitt, Kurt Pawlik, Ulrich Teichler, Johan P. Mackenbach, Archana Singh-Manoux; Gianvittorio Caprara (until AGM 2019, renewable)

A9 Social Sciences

Chairperson: Antoine Bailly (to end 2017, renewable)

Antoine.Bailly@unige.ch

Rue de la Tour 51, 1867 Ollon, Switzerland

Committee: Alessandro Cavalli, Yale Ferguson, Sture Öberg, Justin Stagl, Yola Verhasselt, Maria Paradiso (until December 2017, renewable), Maria Dolores Garcia-Ramon (until December 2017, renewable), Alun Jones (until December 2017, renewable)

A10 Law

Chairperson: Dagmar Coester-Waltjen (to AGM 2018, renewable)

coewa@freenet.de <http://www.uni-goettingen.de/de/person/100247.html>

Hilariastrasse 7, Pullach, Germany

Committee: Nina Detloff (until December 2019, renewable), Rosa Greaves (until December 2019, renewable), Kurt Seelmann (until December 2019, renewable), Verica Trstenjak (until end 2017, renewable), Alain Strowel (until end 2017, renewable)

A11 Economics, Business and Management Sciences

Chairperson: Klaus Zimmermann (to Nov 2017, renewable)

klaus.f.zimmermann@gmail.com
University of Bonn, Regina-Pacis-Weg 3, 53113 Bonn, Germany

Committee: Gianmarco Ottaviano, Jeroen van den Bergh, from January 2016 – Amelie Constant, Mirjana Radovic-Markovic, Reinhilde Veugelers (all until end of 2018, renewable)

CLASS B

B1 Mathematics

Chairperson: Jürg Kramer (to 2019)

Kramer@math.hu-berlin.de

Department of Mathematics, Humboldt University, Unter den Linden 6, 10099 Berlin

Committee: Jean-Michel Bismut (to September 2019 not renewable), Helmut Hofer (to September 2019 not renewable), Nigel Hitchin (retires 2017), Philippe Michel [to 2016], Umberto Zannier [to September 2016], Alfio Quarteroni (to December 2017, renewable)

B2 Informatics

Chairperson: Schahram Dustdar (until Dec 2019, renewable)

dustdar@dsg.tuwien.ac.at

TU Wien, Distributed Systems Group, Argentinierstrasse 8, 1040 Vienna, Austria

Committee: Dieter Fellner (until AGM of 2018), Paul Spirakis (to 2017), Carlo Ghezzi (to 2017, renewable), Jan Bergstra (until end 2019)

B3 Physics and Engineering Sciences

Chairperson: Muhsin Harakeh (ends AGM 2018)

m.n.harakeh@kvi.nl

Rijksuniversiteit Groningen, Kernfysisch Versneller Instituut, Zernikelaan 25, 9747 AA Groningen, The Netherlands

Committee: Pavel Exner -Vice Chair (ends AGM 2020, not renewable), Michael Peter Kennedy (until end 2020, renewable), Angela Bracco (until end 2020, renewable), Tamás Csörgö (until AGM 2019), Sydney Galès (until AGM 2019), Karlheinz Langanke (until AGM 2019), Maciej Ogorzalek (first term till AGM 2017, renewable), Minh Quang Tran (till AGM 2020, not renewable)

B4 Chemical Sciences

Chairperson : Graham Hutchings (to AGM 2019, renewable)

hutch@cf.ac.uk

Cardiff Catalysis Institute, School of Chemistry, Cardiff University Cardiff, CF10 3AT UK

Committee: from January 2014 to 2016 - Carmen Claver, Janine Cossy, Konstantin Hadjiivanov, Joachim Sauer, Małgorzata Witko, Bert Weckhuysen (until December 2019, renewable)

B5 Earth and Cosmic Sciences

Chairperson: Paolo Papale (until December 2019, renewable).

papale@pi.ingv.it

Istituto Nazionale di Geofisica e Vulcanologia

Committee: Enric Banda (till AGM 2016), André Berger (till AGM 2016), Paul Crutzen (till AGM 2016), Camiel de Loore (till AGM 2016), Jean-Claude Duplessy (till AGM 2016), Tuija Pulkkinen (till March 2018, renewable), John Ludden (till March 2018, renewable), Hans Thybo (till March 2018, renewable)

CLASS C

C1 Biochemistry and Molecular Biology

Chairperson: Witold Filipowicz (to 2019)

filipowi@fmi.ch

Friedrich Meischer Institute for Biomedical Research, Maulbeerstrasse 66, CH-4.58 Basel, Switzerland

Committee: Anton Berns, Nicholas Hastie, Maurizio Brunori, Esteban Domingo, Daniela Rhodes, Moshe Yaniv (all from September 2013 to 2016, renewable)

C2 Cell and Developmental Biology (renamed at the AGM of 2015)

Chairperson: Margaret Buckingham

margab@pasteur.fr

Institut Pasteur, Department of Biologie du Développement, CNRS URA2578, 25 rue du Dr Roux, Paris Cedex 75724, France

Committee: Meinrad Busslinger, Carl-Henrik Heldin, Elisabetta Dejana (first term ends AGM 2018, renewable), Anne Ephrussi (first term ends AGM 2018, renewable), Austin Smith (first term ends AGM 2018, renewable)

C3 Physiology and Neuroscience (renamed at the AGM of 2015)

Chairperson: Dmitri Rusakov (to AGM 2019)

d.rusakov@ucl.ac.uk

UCL Institute of Neurology, Queens Square, London, WC1N 3BG, UK

Committee: Marina Bentivoglio (till AGM 2017, renewable), Alfonso Araque (till AGM 2018), Robert Zorec (till AGM 2018), Vladimir Parpura (till AGM 2017, renewable), Riitta Salmelin (till AGM 2017, renewable), Cisca Wijmenga (till AGM 2019), Barbara Franke (till 31 December 2018, renewable)

C4 Organismic and Evolutionary Biology

Chairperson: Christophe Thébaud (To AGM 2019, renewable)

christophe.thebaud@univ-tlse3.fr

UMR 5174 CNRS 'Evolution et Diversité Biologique', Université Paul Sabatier, 31 062 Toulouse cedex 4, France

Committee: Roy Anderson (to end 2016), Lars Walløe (to end 2016), Pat Monaghan (to 2017), Ricardo Guerrero (to 2017)

C5 Clinical and Veterinary Science (created at the AGM of 2015)

Chairperson: Stephen Holgate (To AGM 2018, renewable)

sth@soton.ac.uk

Sir Henry Wellcome Laboratories, University of Southampton, SO16 6YD, UK

Committee: Christopher Griffiths (until AGM 2019, renewable), Paul Matthews (until AGM 2019, renewable), Richard Frackowiak (until AGM 2019, renewable)

1 Committees are elected by the members of the section accordance with the Regulations for Section Committees. At least 50% of the committee has to be elected by a ballot of the membership of the Section. All members of the Section are eligible to stand for election as Committee candidates. The exact procedure for rotation and elections is decided by the Committees themselves. The Chair must ensure the committees reflect a balance of representation of the fields within the Section and should ensure a regular rotation of members of the committee.

2 Chairs serve a three term, renewable once only for a further three years.

3 Committee members serve a three year term that can be renewed once only for a further three year period.

4 (date first term ends / date second and final term ends subject to agreement of the committee and Council)

Annex 3: Academia Europaea Barcelona Knowledge Hub



2017 Annual Report of Activities for AE Headquarters, London

28 February 2018

PARTNERS of the AE-BKH:



TABLE OF CONTENTS

1. OVERVIEW

1.1 The Academia Europaea	3
1.2 The Barcelona Knowledge Hub (AE-BKH).....	3
1.3 The Young Academy of Europe.....	4
1.4 The AE-BKH International Advisory Committee	4

2. FEATURE ACTIVITIES DURING 2017

2.1 The AE-BKH Women's Week 2017 (1-3 March).....	5
2.2 Co-organisation of the Summer Course "Barcelona Dialogue 2017" with Northeastern University, Boston (21 May-19 June)	9
2.3 <i>Disputatio</i> of Barcelona 2017 (22-24 November).....	11
2.4 Music Concert: The European dimension of Felip Pedrell (22 November).....	15

3. OTHER ACTIVITIES DURING 2017

3.1 Collaboration with the Conference "Contemporary Narratives in English" (University of Zaragoza, 26-28 April	17
3.2 Participation in the AE-YAE-ALLEA Conference (Budapest, 3-7 September). Video in remembrance of Prof. Anne Buttner (1937-2017).....	17
3.3 Participation in the SAPEA (Science Advice for Policy by European Academies) Workshop on Academies' Interaction (Madrid, 21-22 September).....	19
3.4 Lecture at the Banyoles Regional Studies Center (7 October).....	20
3.5 Co-organisation of the Board meeting of COSCE (Confederation of the Scientific Societies of Spain) in Barcelona (17 October).....	21
3.6 Direction of the visits to the Archaeological Museum of Catalonia and the Natural Science Museum of Barcelona (9 November).....	22
3.7 Lecture at the Catalan Society for Biology for the St. Albert's Day celebration (15 November)	23
3.8 Participation in the activity of the Lilly Foundation-Real Academia Espanola (Madrid, 29 November)	24
3.9 Collaboration with the Marie Skłodowska-Curie European Training Network DIAPHORA Project of the Department of Philosophy, University of Barcelona (12-15 December).....	25

4. ANNEXES

4.1 Annex 1. Updates on the AE-BKH Website.....	27
4.2 Annex 2. Diffusion of the activities of the AE-BKH.....	28
4.3 Annex 3. Promotion of the <i>Disputatio</i> of Barcelona 2017 via social media.....	30
4.4 Annex 4. Piqueras M, Guerrero R (2016) The AE-BKH Women's Week, 2013-2016. <i>Contributions to Science</i> , 12:93-98	

1. OVERVIEW

1.1 The Academia Europaea



ACADEMIA EUROPAEA

Founded in 1988, the Academia Europaea (AE) is an international, nongovernmental, not-for-profit association of individual scientists and scholars from all disciplines, recognised by their peers as experts and leaders in their own subject areas. The AE members collectively promote research, learning and education. The AE recognises genuine international excellence and supports the culture of European research through dialogue and collaboration. The AE membership now numbers well over 3000, including more than 75 Nobel laureates. The AE is pan-European, and its elected members are drawn from the whole European continent and also from non-European countries. The AE has currently 22 thematic sections. The current president of the AE is Prof. Sierd Cloetingh, from Utrecht University.

1.2 The Academia Europaea Barcelona Knowledge Hub



Academia Europaea Barcelona Knowledge Hub

In 2012, the Catalan Autonomous Government (Generalitat de Catalunya), the Barcelona City Council (Ajuntament de Barcelona) and the "la Caixa" Banking Foundation (Fundació Bancaria "la Caixa") launched the Barcelona Knowledge Hub (from then on, AE-BKH) to promote activities of the AE at the southern European countries and the Mediterranean. Those three organizations from Barcelona have the condition of "partners" of the AE-BKH. The three partners count on the support of the Institute for Catalan Studies (IEC) to hold and maintain the Hub's office, which is located at the central site of the IEC, in a place at the old city, with a long and historical relationship with sanitary and scientific institutions.

Operational since January 2013, the AE-BKH focuses on the promotion of activities of interest for the Members of the Academy and the scientific community in general, with special emphasis on multidisciplinary activities that include the transversal perspectives of the natural and social sciences and the humanities. The field of action of the AE-BKH covers, especially, but not uniquely, the Mediterranean and southern Europe.

The AE-BKH office is located at the premises of the IEC, a mid-17th century historical building very conveniently sited in the centre of the city of Barcelona. Since August 2014, Prof. Ricard Guerrero, from the University of Barcelona and University of Massachusetts-Amherst, is the academic director. During 2017, the administrative staff was formed by Doina Bird, Griselda Ribas and Ruben Duro.

Doina Bird is the manager of the Hub, and Griselda Ribas gives the administrative support and relationships with the IEC. The management of the website, digital coordination, social networking, web and communication and the audio-visual section (AE-BKH "Barcelona in Action" Video Channel) is run by Ruben Duro. There have been other external personnel collaborating for several activities, among them, Carmen Chica, Merce Piqueras, Mercedes Berlanga, Jara Duro and Maite Sanchez. The administrative and technical support of the Hub's site at the IEC building is excellent and an essential part in the efficient every-day running of the Barcelona Hub of the Academia Europaea.

1.3 The Young Academy of Europe



Since 2007, the European Research Council (ERC) has been supporting excellent young scientists by awarding them with the ERC Starting Grants under the motto "Supporting the next generation of research leaders in Europe." In this context, the ERC has also manifested its support to the Young Academy of Europe (YAE) as a bottom-up initiative of a dynamic and innovative group of recognized European young scientists with outspoken views about science and science policy. The YAE shares the objective of the ERC to widen participation across Europe and across the research domains.

The AE-BKH provides administrative support to the YAE since 2013, by working closely with the persons occupying the Chair position during each period, as they have been Lynn Kamerlin, Stockholm (2014-2015), Nicole Grobert, Oxford (2015-2016), and Hagit Amirav, Amsterdam (2016-2017). The current Chair of the YAE is Marcel Swart, Girona (2017-).

1.4 The AE-BKH International Advisory Committee (IAC)

During the 26th Annual Meeting of the AE (held in Barcelona on July 16-18, 2014), the Board and the Council of the AE nominated an International Advisory Committee (IAC) for the AE-BKH. Eleven academics, most of them Members of the Academia Europaea (MAE) from Mediterranean countries with different fields of expertise were chosen.

The members of the IAC are currently as follows:

Enric Banda, BSC, Barcelona, enric.banda@gmail.com

Pedro Garc a-Barreno, Fellow of the RAE and RAMEd,
Madrid, pgbarreno@gmail.com

M. Dolors Garcia-Ramon, UAB, Bellaterra, mariadolors.garcia.ramon@uab.cat

Ramon Gomis, IDIBAPS, Barcelona, ramon.gomis@idibaps.org

Sergiu Hart, The Hebrew University, Jerusalem, Israel, hart@huji.ac.il

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Rosalia Vargas, *Ciencia Viva*, Lisbon, Portugal, rvargas@cienciaviva.pt

PARTNERS of the AE-BKH:



Generalitat de Catalunya
Departament d'Empresa i Coneixement
Secretaria d'Universitats i Recerca



2. FEATURE ACTIVITIES DURING 2017

2.1 THE AE-BKH WOMEN'S WEEK 2017 {1-3 MARCH}

An annual activity of the Academia Europaea-Barcelona Knowledge Hub



UN INTERNATIONAL
WOMEN'S DAY
8th March



AE-BKH WOMEN'S WEEK
1st-3rd March, 2017

The ACADEMIA EUROPAEA-BARCELONA KNOWLEDGE HUB WOMEN'S WEEK (AE-BKH WW) is held every year in the first week of March, in commemoration of the UN International Women's Day, celebrated each 8th of March.

On March 1, Marie Farge, Directrice de Recherche at Centre national de la recherche scientifique (CNRS) and Ecole Normale Supérieure, Paris and Member of the Council of the Academia Europaea, was received by the vice-president of the Institut d'Estudis Catalans (IEC), Joaquim



Prof. Marie Farge signs the Honour Book of the IEC in presence of Prof. Joaquim Agulló and Prof. Ricard Guerrero.

Agulló, at the main office of the Presidency of the IEC, where she signed the honour book.

Marie Farge has a PhD in physics, a PhD in mathematics and is a specialist in turbulence, numerical simulation and harmonic analysis to study aerodynamics, geophysical flows and plasma physics. She has published more than 200 papers in peer-reviewed journals and proceedings. She participated in the editorial board of three journals of applied mathematics and cofounded one in 1992. She is member of the council of the Academia Europaea and of RISE (Research, Innovation and Science policy Experts of the European Commission). In 2011 she wrote the recommendation of the Ethics Committee of CNRS on the relations between scientists and publishers. In 2012 she participated in the declaration *The Cost of Knowledge*, calling to reform the scientific publication system. In 2015 she cofounded the non-profit organization CAPSH (Committee for the Accessibility of Publications in Sciences and Humanities) that develops the open source it their papers in open access.

Scientific publication in peer reviewed journals is the backbone of the current research system. Nowadays the process of peer reviewing and the dissemination of articles are controlled and privatized worldwide by publishers, they own the journals, peer review reports, and articles they publish. Researchers are not paid by publishers for writing articles and referee reports, but research institutions have to pay huge amounts of money to publishers to access those articles,

while the referee reports are non-disclosable and lost to research. Unfortunately researchers are kept in the dark about the business model of publishers and how much it costs to their institutions. The business model of publishers made sense when they were printing houses, but it has become harmful for research now that Internet can be used instead.

We will first describe the present system and then propose alternative solutions that take advantage of the digital revolution and consider scientific knowledge as a commons. This new approach is inspired by the work of *Elinor Ostrom*, the only woman having ever received the Nobel prize in economic sciences for '*showing how common resources can be managed successfully by the people who use them rather than by governments or private companies*'. [1]

Knowledge, like language, is not a merchandise to be traded but a commons that everyone should share worldwide and preserve for the generations to come. Scientific results that are not shared nor preserved are lost forever. On the contrary, when a researcher shows her results to a colleague she does not lose them but can thus improve them, correct errors and get new ideas. This is a positive sum game. Peer reviewing and publishing generalize such an exchange of results and ideas. This is why the research outputs (e.g., articles, data and codes) should belong to the *knowledge commons* one should collectively develop.

In the afternoon, the Experts Meeting was held with several specialists in the Open Access policy in academic institutions of Barcelona. People representing the initiative of Open Science discussed informally with Marie Farge the EC current actions on the topic in the Puig i Cadafalch Room at the IEC.



Experts Meeting on Open Access in the Puig i Cadafalch Room

On March 2 in the Prat de la Riba Room of the IEC, Marie Farge gave a Distinguished Lecture entitled "Scientific knowledge as a commons: How to improve the peer review and dissemination of research outputs". The Secretary of Universities and Research (SUR) of the Catalanian local Government, Prof. Arcadi Navarro, chaired the lecture.



Prof. Marie Farge during her Distinguished Lecture at the Prat de la Riba Room of the IEC.



UN INTERNATIONAL
WOMEN'S DAY



AE-BKH WOMEN'S WEEK

2013

March 6 th	InterSection Workshop: "Two cultures, three cultures, or one only culture?" Convenor: Nicole Skinner, AE-BKH. With the participation of: Dacha Atienza, Museum of Natural Science of Barcelona, Merce Berlanga, University of Barcelona, and Genoveva Marti, Catalan Institution for Research and Advanced Studies (ICREA).
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2014

March 5 th	Distinguished lecture: "Arab Spring, or long desolate Arab Winter?" By Nadia El-Awadi, Egypt, former president of the World Federation of Science Journalists.
March 6 th	InterSection Workshop: "The Earth is our body. Lynn Margulis and Gaia". Convenor: Carmen Chica, editor of the book <i>Once Upon a Time</i> . With the participation of: Isabel Esteve, Marta Estrada, Ricard Guerrero, Juli Peret6, Merce Piqueras, Anna Omedes, Carme Puche, Joandomenec Ros and Nicole Skinner.

2015

March 4 th	InterSection Workshop: "Women and the academic ladder" Convenor: Lynn Kamerlin. With the participation of: Clara Corbella, Margaret Luppino, Maryam Ghafouri, M. Dolors Garcia-Ramon and Lourdes Beneria.
March 5 th	Short film "In the search of truth. In memory of Lynn Margulis" . Convenor: Anna Alberni, (ICREA). Comments by the director of the film: Carme Puche. Distinguished Lecture: "Empowerment of women in the academic world" . By Lynn Kamerlin, University of Uppsala, chair of the Young Academy of Europe (YAE). Music Concert: "Women's Sephardic Songs" . By Olga Miracle, soprano, accompanied by Noemi M. Agell and Pere Olive, string and percussion instruments.
March 6 th	Guided visits: Visit to the Museu Blau, the new Natural Science Museum of Barcelona. Guided by Marta Punseti. Visit to the Cercle del Liceu Pinacothèque. Guided by Maria Jimenez de Parga.

2016

March 3 rd	Distinguished Lecture: "Women and cultural transmission. The essential role of translation" . By Mary Ann Newman, Farragut Fund for Catalan Culture in the USA. Lecture: "Greater than Life. In remembrance of Lynn Margulis {1938–2011}" . By Ricard Guerrero, Academic Director AE-BKH. Documentaries: "Symbiotic Earth". Documentary produced for the TV. Directed by John Feldman, Hummingbird Films, New York. "Lin in Spain. How she stood our Spanish-Catalan accent." Several documentaries selected by Ruben Duro, AE-BKH. Music Concert: "Songs from Syria and Kurdistan, a Nation without a State." By the Gani Mirzo Band. Musicians: Neila BenBey (singer), Francesc Puig (clarinet), Juan Jose Barreda (flamenco guitar), and Gani Mirzo (ud, buzuk, composer).
March 4 th	InterSection Workshop: "Women, migrations and war" . Convenor: Mitsi Ito. With the participations of: Mitsi Ito, Maryam Ghafouri, Pere Castano, Carmen Chica, Salvador Giner. Lecture: Commemoration of the International Year of Global Understanding. By Silvia Pellicer, University of Zaragoza. Art exhibits: Digital art: Photomontage by Teresa Girones: "The Book of Beasts. Palmira 2015. Reflections of the dangers of power and the horrors of war." Paintings by Trini Sotos: "Women/Dones/Mujeres. Reflections and aesthetics of female emotions."

2017	
March 1 st – 3 rd	Experts Meetings: "Open Access policy in academic institutions" . Convenors: Ricard Guerrero and Merce Piqueras. With the participation of Marie Farge, Ignasi Labastida, Ernest Abadal, Lluís Anglada, Michaela Bertero, Regina Revilla, Pastora M. Samper, Jordi Mas and Lluís Rovira.
March 2 nd	Distinguished Lecture: "Scientific knowledge as a commons: How to improve the peer review and dissemination of research outputs" . By Marie Farge, Directrice de Recherche at Centre national de la recherche scientifique (CNRS) and Ecole Normale Supérieure, Paris and Member of the Council of the Academia Europaea.

Marie Farge referred to scientific publication in peer reviewed journals as the backbone of the current research system. She described the present system of the process of peer reviewing and the dissemination of articles controlled and privatized by publishers that own the journals. She commented on the situation of researchers, who are not paid by publishers for writing articles and are not informed about the business model of publishers, and the huge amounts of money it costs their institutions. Farge proposed alternative solutions that take advantage of the digital revolution and consider scientific knowledge as a commons. Farge expressed that common resources should be managed by the people who use them, rather than by governments or private companies, so as not to be lost forever.

On March 3 different experts in Open Access publication from several universities of the academic area of Barcelona discussed at the IEC the future of academic publication and the impact of Internet in the diffusion of the scientific and humanistic knowledge.

2.2 CO-ORGANISATION OF THE SUMMER COURSE "BARCELONA DIALOGUE 2017" WITH NORTHEASTERN UNIVERSITY (BOSTON, 21 MAY-19 JUNE)



Northeastern University
College of Arts, Media and Design

Between 21 May and 19 June 2017, Xavier Costa-Guix (MAE, Northeastern University, Boston) organized, with the collaboration of the Barcelona Knowledge Hub of the Academia Europaea (AE-BKH), the "Art and design in Barcelona". Barcelona Dialogue 2017, a Summer Course held in different locations of Madrid and Barcelona.

The course is conceived as an introduction to the creativity, art and design of cities of Madrid and Barcelona, focusing on the past few decades, yet keeping in mind historical trajectory since classical times. The dialogue includes a comparative approach between European and American cultures and an intensive introduction to Spanish culture and civilisation. In Barcelona the course focused on the changing role of the city's creativity in today's economy in the European, Mediterranean and Spanish contexts, and examines some cases of entrepreneurship and innovation resulting from applying design to fashion, gastronomy (Ferran Adria), media, advertising, and other fields, such as visual and performance arts, which are relevant fields of social, economic and technological innovation. The creation of Barcelona's cultural arts district in the Raval and the 22@area for creative industries constitute two urban case studies that were explored during the program for understanding the importance of design and cultural industries and their heritage as a source of wealth in one of Europe's most innovative and culturally rich cities.



*Left: Dr. Xavier Costa-Guix during his class "Introduction to Barcelona" in the Pi i Sunyer Hall of the IEC.
Right: NE University students introducing their final works of the "Barcelona Dialogue 2017".*

Northeastern University provides well known comprehensive programs, very strong academics, an unrivalled experiential learning program with a wealth of Co-op opportunities (by which as part of their undergraduate degree, students can spend up to three 6-month periods working in a range of positions related to their interests, in locations all over the world). In the College of Arts Media and Design, there are programs in Music, Theatre, Architecture, Art + Design (including Game Design and Media and Screen Studies), Journalism and Communication Studies. In addition to having a wealth of dedicated programs, the university particularly encourages interdisciplinary relationships, and encourages students to create their own path, both combining disciplines across our fields, and also with other Colleges across Northeastern, including flexible joint programs with Business, Computer Science, and Engineering, and students can create their own combined major in just about any area of interest.



Students of the Northeastern University, Boston, with Prof. Ricardo Guerrero, Dr. Xavier Costa-Guix and a part of the AE-BKH staff at the cloister of the IEC.

The twenty American visiting students from different majors interacted with creators, designers, entrepreneurs and economists, visiting inspiring start-ups, exhibits, performances, and attending lectures, debates and special events. In the Institute for Catalan Studies (IEC), the site of the AE-BKH, they had lecture sessions held in the Pi i Sunyer Hall of the IEC, addressing the transformed contemporary cultural, economic and technological status of design, and the AE-BKH explored exchanges and intersections with architecture, urban identities and lifestyles. The course aimed to address the implications for cities of the ascendancy of design as a process, a transdisciplinary mode of creative thinking, and as a specialized field of study. The city as a site of creativity, with visits to some outstanding architectural and design examples (Antoni Gaudi), and the observation of Barcelona's artistic and design-based vitality (The Centre for Contemporary Culture in Barcelona) culminated in a creative project through drawing, photography, video or other media.

On 16 June, Prof. Ricard Guerrero, academic director of the AE-BKH, met Prof. Elizabeth Hudson, dean of the College of Arts, Media and Design of the Northeastern University, at the AE-BKH headquarter.



Left: Prof. Elizabeth Hudson, dean of the College of Arts, Media and Design of the Northeastern University, Boston, with Dr. Xavier Costa-Guix, Prof. Ricard Guerrero, academic director of the AE-BKH, and Griselda Ribas, officer of the AE-BKH, at the IEC. *Right:* Prof. Elizabeth Hudson and Prof. Ricard Guerrero talking about the relationship between NE University and the AE-BKH.

An annual activity of the Academia Europaea-Barcelona Knowledge Hub

About the *Disputationes*

In the scholastic system of education of the Middle Ages, the *Disputationes* offered a formalized method of debate designed to uncover and establish truths in theology and in sciences. Fixed rules governed the process: they demanded dependence on traditional written authorities and the thorough understanding of each argument on each side. The famous *Disputatio of Barcelona*, called in the summer of 1263 by King James I of Aragon, was the most important and well-known of the inter-faith *Disputationes* that took place between Christian and Jewish theologians in the late Middle Ages. In 1263, the disputants were Friar Paulus Christianus (Dominican, and a convert rabbi from Judaism) and rabbi Moses ben Nachman (also known as Nachmanides, or Benastruch Sa Porta), from Girona's community, the most important scholar of Judaism in his time. They discussed theological questions in front of the king and his court, in the presence of the most important men of the prosperous and influent city of Barcelona.

The modern-day *Disputatio of Barcelona*, 2013-2016

The modern *Disputatio of Barcelona* has been successfully recovered. In **November 2013**, the AE-BKH celebrated its inaugural event by commemorating the 750th anniversary of the medieval *Disputatio*, and organised a modern-day *Disputatio* on "**Social and state-of-the-art Medicine**", featuring philosopher **Thomas Pogge** (Yale University; leader of the Health Impact Fund) and neuroscientist **Mara Dierssen** (Centre for Genomic Regulation, UPF, Barcelona; president of the Spanish Society for Neuroscience).

After the success of the first modern-time *Disputatio* of Barcelona (2013), the AE-BKH organised on **November 27, 2014**, a second modern-day *Disputatio of Barcelona*, together with the United Nations University Institute on Globalization, Culture and Mobility (UNU-GCM). The topic was "**The Mediterranean, bridge of cultures**". The *Disputatio of Barcelona* 2014 was held at the Saint Pau Historic Site, where the UNU-GCM is located. Two MAE, **Maria Paradiso** (geographer, Professor of Geography and Planning at the University of Sannio, Italy), and **Enric Banda** (geophysicist, Director of Science and Environment at the "la Caixa" Foundation, Barcelona), presented many different aspects of the Mediterranean history, culture, opportunities and present difficulties.

On **December 9, 2015** the third modern-day *Disputatio of Barcelona* was held in the Royal Chapel of Sainte Agatha, in the Gothic Quartier. This *Disputatio of Barcelona* 2015, was also a success. Two scholars, **Nuria Sebastian** (vice-president of the European Research Council), and **Ulises Cortes** (from the Barcelona Supercomputing Centre), discussed on "**Natural vs Artificial Intelligence**".

On **November 21, 2016** the fourth modern-day *Disputatio of Barcelona*, was held at the Palau de la Generalitat, under the presidency of the president of the Government of Catalonia, M. Hon. Carles Puigdemont. It was devoted to the topic: "**Natural Life vs. Synthetic Life**". Two scholars, **Anna Veiga** (Centre for Regenerative Medicine, Barcelona) and **Ricard Sole** (Complex Systems Lab, PRBB, Barcelona), debated on the new challenges that the current scientific advancements present to human societies. The impressive knowledge both *disputantes* allowed them to clearly expose their ideas to the audience. An active debate among the public and the speakers helped to better understand several critical questions previously exposed by the *disputantes*.

We can consider that the modern-day *Disputationes* are a distinctive feature of the AE-BKH, and must be continued in future years.

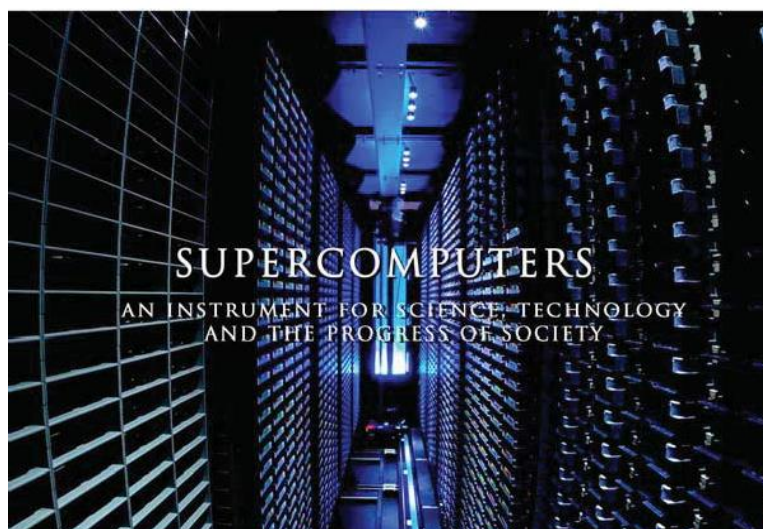
The Disputatio of Barcelona 2017

This year, the Barcelona Knowledge Hub of the Academia Europaea (AE-BKH) held the fifth modern-day *Disputatio* of Barcelona on **23 November 2017**, at the Institute for Catalan Studies (IEC) in the Prat de la Riba Hall. The *Disputatio* debated on "**SUPERCOMPUTERS: An instrument for science, technology and the progress of society.**" The two *disputantes* were **Mateo Valero**, director of the Super Computing Center of Barcelona (BSC), who presented the "science and technology" aspects, and **Alison Kennedy**, director of the STFC Hartree Centre (Daresbury, Warrington, UK), who presented the "progress of the society" aspects.




DISPUTATIO OF BARCELONA 2017

THE DEBATE



The debate was coordinated by **Enric Banda** (BSC) and **Fabrizio Gagliardi** (BSC), and was followed by a Colloquium with the audience, in which the attendants addressed questions of relevance to both speakers.



Academia Europaea
Barcelona Knowledge Hub

Disputatio of Barcelona 2017

SUPERCOMPUTERS: An Instrument for Science, Technology and the Progress of Society


Name: _____

Organisation: _____

Question (if necessary, please continue on back): _____

To:


Mateo Valero	<input type="checkbox"/>
Alison Kennedy	<input type="checkbox"/>
Both	<input type="checkbox"/>




Would you like to receive information of the activities organised by the Barcelona Knowledge Hub? yes no

Email address: _____


Partners of the AE-BKH:




Generalitat de Catalunya
Departament d'Empresa i Coneixement
Secretaria d'Universitats i Recerca



Ajuntament de
Barcelona



La Caixa Foundation



IEC

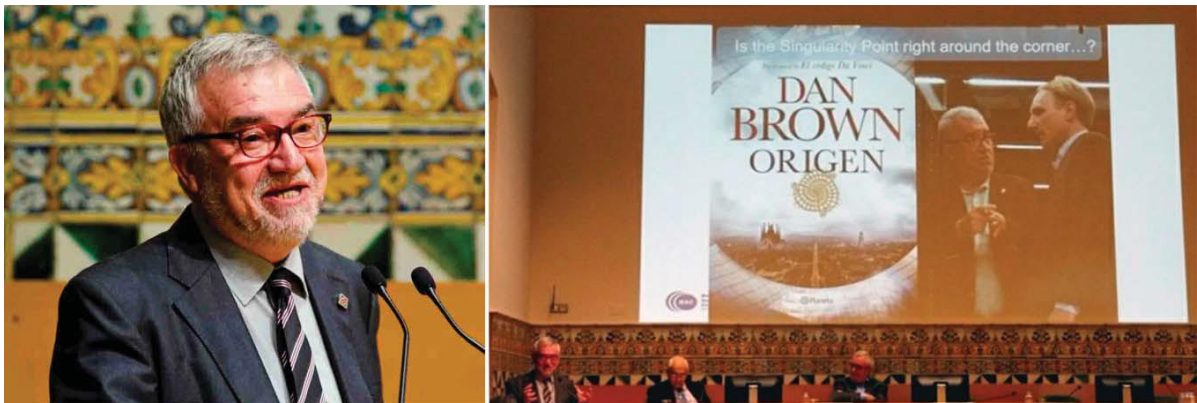
Card for the public to address questions to the disputantes during the post-conferences colloquium of the Disputatio of Barcelona 2017.

Mateo Valero, director of BSC, spoke about the science and technology aspects of Supercomputers. The BSC is the Spanish National Supercomputing Centre, housing the MareNostrum supercomputer, one of the largest in Europe.

Mateo Valero explained how MareNostrum is used in designing precise medicine, climate and weather monitoring and prediction, and development of new materials for science and technology. He then described the potential for a level of precise modelling enabled by Exascale computing, inconceivable so far, and the technical and economic challenges in achieving it. He also reviewed the current plans in Europe to develop an entire European HPC stack software and hardware, including a low power HPC processor. To this end 7 first European countries signed an agreement, EuroHPC, in Rome on 23 March 2017. The European Union and its member states felt that without a



European supercomputer entirely designed with European technology and competitive enough to be in the top 3 supercomputers in the world, the very same independence and security of Europe would be compromised. BSC leads this effort with major contribution from the major European industrial players in France, Germany, Italy and other countries. The first Exascale system is planned for 2023.



Mateo Valero, director of the Super Computing Center of Barcelona (BSC) during his lecture for the *Disputatio of Barcelona 2017* in the Prat de la Riba Hall of the IEC on 23 November 2017.

Alison Kennedy, Science and Technology Facilities Council (STFC), Hartree Centre Director (UK), talked about the progress of society aspects. The Hartree Centre is funded by the UK government with a remit to improve the global competitiveness of UK industry by facilitating the adoption of High Performance Computing (HPC), High Performance Data Analytics and Cognitive Computing techniques by companies of all sizes. Alison spoke about how Europe has an ambitious challenge-led programme of research that reflects the policy priorities of the Europe 2020 strategy and addresses major concerns shared by citizens of Europe and elsewhere. Supercomputers enable sophisticated computer simulation and modelling and complex data analysis across a range of data sources to be undertaken, she explained. They play an increasingly important role in helping us to study and solve societal problems and challenges that are too big, too complex, or which extend over too long a period of time, to be

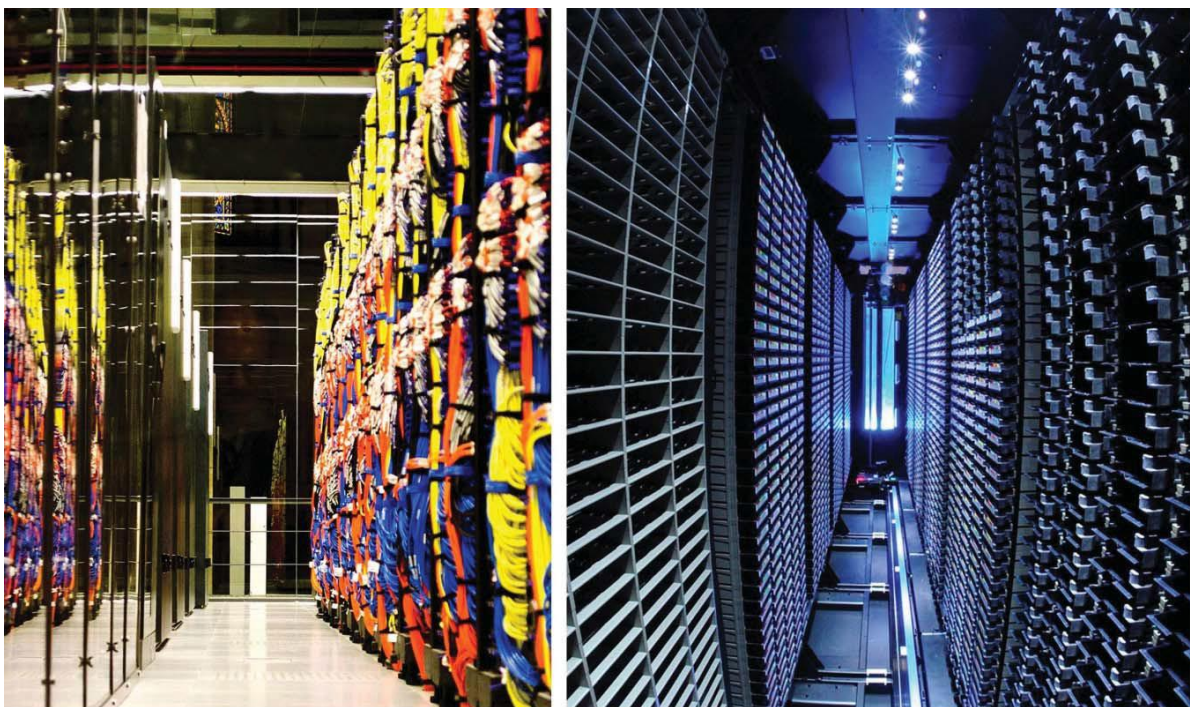


tackled by traditional methods such as observation or experiment. Priority areas for Europe include: Health, demographic change and wellbeing; Food security, sustainable agriculture and for-

estry, marine and inland water research; secure, clean and efficient energy; smart, green and integrated transport; climate action, environment, resource efficiency and raw materials; Her talk presented examples of how research in these areas, enabled by supercomputers, is contributing to the progress of society and underlines their continuing importance in shaping our future. This timely event was well-attended, drawing a diverse crowd from the sciences, arts and humanities, as well as interested members of the general public.



Alison Kennedy, director of the STFC Hartree Centre (Daresbury, Warrington, UK), during her lecture for the *Disputatio of Barcelona 2017* in the Prat de la Riba Hall of the IEC on 23 November 2017.



Left: Mare Nostrum Supercomputer of the Barcelona Supercomputing Centre (Barcelona). Right: Blue Joule Supercomputer of the STFC Hartree Centre (Daresbury, Warrington, UK).

2.4 MUSIC CONCERT: THE EUROPEAN DIMENSION OF FELIP PEDRELL {22 NOVEMBER}

In conjunction with the main *Disputatio* event, a concert was organised on the day before. The concert was given by soprano **Marta Matheu** and pianist and composer **Albert Guinovart**. Guinovart played an Erard piano from the late 19th century loaned by the Music Museum in Barcelona. The concert, under the title "**The European dimension of Felip Pedrell**," was a presentation of songs by Felip Pedrell, Manuel de Falla, Joaquin Turina, Enric Granados and Albert Guinovart. Both events were well attended, drawing a diverse crowd from the sciences, arts and humanities, as well as interested members of the general public.



PROGRAMME

PART I

FELIP PEDRELL {1841-1922}

Cançons d'amor que he dictades
De celfstia matinera
L'estel dels Pirineus

MANUEL DE FALLA {1876-1946}

Oración de las madres que tienen a sus hijos en brazos
Pan de ronda
Preludios
Olas
gigantes

JOAQUIN TURINA {1882-1949}

Poema en forma de canciones
I. Dedicatoria
II. Nunca olvida.
III. Cantares
IV Los dos miedos
V. Las locas por amor

PART II

ENRIC GRANADOS {1867-1916}

Allegro de concert (piano)
I. El majo tñmido
II. Callejeo
III. El tralala y el punteado
IV. El majo discreto
V. Elegia eterna

ALBERT GUINOVART {1962}

Tanit
I. Tu el mar, jo el blau
II. Del meu sud ets el nord
III. Era que et somniava
IV. T'estim
V. Que es el desig?

Performers:

Marta Matheu studied piano, singing and organ at the Conservatories of Tarragona and Valencia. She has received many awards in singing contests. She has recorded the complete songs of Frederic Mompou, as a soloist, and the St. John Passion by Bach with the Baroque Camerata Orchestra of Barcelona.



Marta Mathéu (soprano)



Albert Guinovart (pianist and composer)

Albert Guinovart studied at the Conservatory of Barcelona and in London. He has collaborated with artists such as Victoria dels Angels, Barbara Hendricks, and Nacho Duato, among others. He has recorded albums with works by Joaquin Turina, Enric Granados, Isaac Albeniz and Xavier Montsalvatge. His operas include *Atzar* (Chance) (1998) and *Eternal Dawn* (2009), the ballet *Terra Baixa* (Low Land)(1999). His musicals include *Mar i Cel* (1988, 2004), *Gaudi*, the musical of Barcelona (2003) and *Paradise* (2005). His soundtracks include *The Long winter* (1992) and he won an Oscar for the orchestration of *The Artist* (2011).

Felip Pedrell (1841–1922) sang as a boy soprano at Tortosa Cathedral from age 9, where he was educated musically. In 1873 he co-directed a zarzuela troupe in Barcelona and studied the guitar with Jose Broca. He wrote over 100 compositions: salon music for piano, songs, and works for the stage. After living in Italy and France, he met Isaac Albeniz and Enrique Granados who became his first pupils. Other notable pupils included the composers Rosa Garcia Ascot, Manuel de Falla, and Joan Lamote de Grignon. Between 1891 and 1904 in Madrid he became a member of the Real Academia de Bellas Artes de San Fernando in 1895. In 1894, the first volume of his *Hispaniae schola musica sacra* appeared, a series of edited scores of renaissance and baroque church music from Spain. He returned to Barcelona in 1904, when his opera *Els Pirineus* (The Pyrenees) was eventually performed.

DISPUTATIO OF BARCELONA 2017
MUSIC CONCERT

THE CONCERT

The concert is part of the *Music in the Cloister* cycle of concerts, which this year is entitled "One hundred years of scientific and musical legacy of Felip Pedrell" which aims to recover the musical tradition among the activities of the ancient academies of Barcelona.

THE EUROPEAN DIMENSION OF FELIP PEDRELL (1841-1922)

November 22, 2017
19 h
Prat de la Ribera Hall

Institut d'Estudis Catalans
Carrer del Carme, 47
Barcelona

MARTA MATHÉU (SOFRANO)

Born in Tarragona, she studied piano, singing and organ at the Conservatory in that city. She studied a singing degree with Professor Ana Luisa Chova at the Conservatory of Valencia, where she earned honours. As a soloist she has performed works such as Pergolesi's *Stabat Mater*, Vivaldi's *Gloria*, Bach's *Magnificat*, Handel's *Dixit Dominus* and Kodály's *Te Deum*. She has been awarded several national and international prizes: first prize at the X Manuel Ausensi Event for young voices, the Audience Award at the VII Montserrat Caballé Singing Contest, the Plácido Domingo Special Prize for the best Spanish singer and the special award for the best Catalan singer in the Francisco Viñas Contest. She has recorded the complete songs of Frederic Mompou, as a soloist, and the *St. John's Passion* by Bach with the Baroque Camerata Orchestra of Barcelona.

MARTA MATHÉU
Soprano

ALBERT GUINOVART
Piano

<http://.barcelona.acadeuro.org>

*Erard piano from the late 19th century yielded by the Museu de la Música in Barcelona.

Brochure of the music concert "The European dimension of Felip Pedrell (1841–1922)"

Roma Escalas, musician and musicologist, has directed and organised the cycle "*Musica al Claustre*" (*Music at the Cloister*; July, September and November 2017) on behalf of the IEC.

3. OTHER ACTIVITIES DURING 2017

{Activities and collaborations in chronological order}

3.1 COLLABORATION WITH THE CONFERENCE "CONTEMPORARY NARRATIVES IN ENGLISH" {UNIVERSITY OF ZARAGOZA, 26–28 APRIL}

In collaboration with the University of Zaragoza (Spain) and the Barcelona Knowledge Hub of the Academia Europaea, Dr. Jessica Aliaga Lavrijsen and Dr Jose M. Yebra Pertusa from the "Contemporary Narratives in English" Research Group organised a three-day series of lectures entitled "Transmodern Perspectives on Contemporary Literatures in English" that explored the traces of what has been called "transmodernity" in contemporary literatures in English. Its working hypothesis is that, although still largely unnoticed, there is evidence of a paradigm shift taking place since the 1980s that involves the assimilation and transcendence of Modernity and Postmodernity into what we have provisionally called "Transmodernity". Contemporary literary texts, literary theory and cultural studies test the applicability of this concept and its utility as a tool to better understand contemporary trends in literature.

3.2 PARTICIPATION IN THE AE-YAE-ALLEA CONFERENCE {BUDAPEST, 3–7 SEPTEMBER}. VIDEO IN REMEMBRANCE OF PROF. ANNE BUTTIMER {1937–2017}

This joint meeting was entitled "Sustainability and Resilience", in line with the commitment of both AE and ALLEA, in partnership with the Young Academy of Europe (YAE) and with the host, the Hungarian Academy of Sciences.



HUNGARIAN
ACADEMY
OF SCIENCES



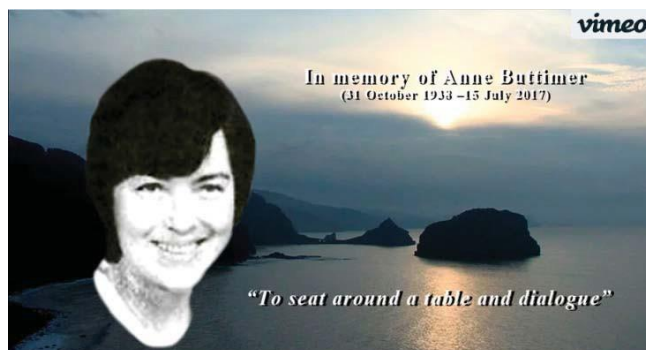
The main conference and the pre-conference events were held in the Main Building of the Hungarian Academy of Sciences in Budapest. Topics in the categories of natural sciences, life sciences, social sciences and humanities and the arts focused primarily on Europe, enlightening on various aspects of Europe's sustainability, resilience, heritage, social system, health, economy, climate, science and research landscape.

The Conference kicked off on **Sunday, the 3rd of September** in the morning with the **ALLEA Board Meeting** and carried through till the afternoon with numerous events held during the day, such as the **European Research Council {ERC} Pre-Conference**, entitled - A Success Story for Europe".

Meanwhile, the **Young Academy Of Europe {YAE} Pre-Conference Sessions** were launched, and the **pre-conference workshop Sections** on History and Archaeology, an Exact Science workshop on Physics and Engineering Sciences dedicated to the advancement and propagation of excellence in physics and engineering sciences, as well as the advancement of public education in Europe.

The other two section workshops for the day were dedicated to Literature and Theatre, and Film and Visual Studies.

The day ended with the **AE Board meeting**, including Professor R Guerrero, Director of the Barcelona Hub (BKH) and Dr. David Coates, AE Executive Secretary. The meeting began with the president, Sierd Cloetingh, welcoming members of the Board and thanking the generous hospitality of the Hungarian Academy. He then asked Trustees for a minute of silence in memory of Anne Buttimer. Prof. Guerrero, academic director of the AE-BKH, screened the audiovisual from the AE - BKH Video channel entitled "Homage to Prof. Anne Buttimer" produced by Ruben Duro (AE-BKH) throughout the conference. This audiovisual homage is available on the AE-BKH "Barcelona in Action" Video Channel through the link < <http://vimeo.com/233712556> >.



Prof. Guerrero, presented the plans for the *Disputatio* in November and explained that in 2018 there would be an overarching theme for Hub activity, focused on a concept of "Building Bridges". More detailed ideas would be presented at the November Board. The 2018 *Disputatio* would also reflect the theme. In addition, it was proposed by the President to use the Hub and extend the *Disputatio* to include other elements to create an AE annual meeting of short duration, focused on new members, which would also include prizes and Burgen Scholars. The President proposed that in the future AE should scale back the length of any annual meeting and fix the date and use the same venue every year. This would allow members to always make room for the event in their calendars. Prof. Guerrero said that the partners in Barcelona were willing to facilitate this at the Hub. There was general agreement to fix the 2018 Annual Meeting in Barcelona.



Hall at the Hungarian Academy of Sciences.

The Board WAS invited to have an initial exchange on a proposed 3-year strategy document on a series of common questions, including the President's priorities that formed the basis for his re-election mandate. The plan would be ready for rollout during 2018.

3.3 PARTICIPATION IN THE SAPEA {SCIENCE ADVICE FOR POLICY BY EUROPEAN ACADEMIES} WORKSHOP ON ACADEMIES'S INTERACTION {MADRID, 21–22 SEPTEMBER}

The Science Advice for Policy by European Academies Project (SAPEA) brings together the expertise of Fellows from over 100 Academies and Learned Societies in over 40 countries across Europe, working closely with the High Level Group of Scientific Advisors, as part of the Scientific Advice Mechanism (SAM), of the European Commission. The SAPEA workshop on Academies' interaction took place on 21-22 September 2017 at the Spanish Royal Academy of Engineering (RAI) in Madrid, with the aim of strengthening cooperation among Academies and supporting individual Academies in providing evidence-based policy advice. The workshop was attended by members of various academies of science and engineering from across Europe as well as by representatives of the European Commission. The workshop was split into five sections, spread across two days. The participants filled in a short survey prior to the event.



The first session introduced the participants to the structure of the workshop and was used as an opportunity for the participants to discuss their activities and challenges and what they wanted to get out of the workshop. The second session focused on the role of the European Academies and the challenges and opportunities they face. Five speakers gave brief presentations on topics ranging from organisational structure, funding, staff resources, large vs. small academies, and more. The third session focused on activities and best practices in academies, helping Academies of all sizes to raise their profile at the European level. Participants discussed strategies used for promoting activities and topics selection in policy advice; quality assurance and peer review of scientific advice; stakeholder engagement and impact. After the group discussions, participants came back together to present reports from each discussion group. The fourth session was about enhancing networking and collaboration among European academies. Presentations were given by representatives of various European academies on the topic of the added value of academies and how they can help, opening an activity in which well-resourced and less-endowed academies were twinned together to share insights and offer advice. The fifth session provided potential policy advice topics. Following this, there was a panel discussion on various European academies. The final session broke out into groups to discuss strategies and options for how academies can best engage with the SAPEA project.

3.4 LECTURE AT THE BANYOLES REGIONAL STUDIES CENTRE {7 OCTOBER}



MUSEU ARQUEOLÒGIC DE BANYOLES

The Banyoles Regional Studies Center conducted a new monographic course entitled "Our Paleontological Heritage", directed by Salvador Sarquella. Characteristic of all the courses of the Studies Centre, the conferences are accompanied by field trips to go deeper into the subjects that are treated during the sessions. For this 2017/18 course, 7 conferences and 6 field trips were scheduled. All the conferences take place at 7 pm in the conference room at the Darder Museum of Banyoles, one of the oldest in the surrounding region. Opened in 1916, it underwent few changes until its complete renovation, which began in 2003. In 2007 the museum opened again, incorporating the natural history collections dedicated to explaining the phenomenon of the hydrological basin of Lake Banyoles.

The inaugural lecture was held on **October 7**, by Prof. Ricard Guerrero, who talked about "Possible origins of life on Earth ... and beyond". Invited by two institutions: the Banyoles Regional Studies Centre (Centre d'Estudis Comarcals de Banyoles) and Astrobanyoles, Professor Guerrero also presented the AE to the audience and invited attendees to the *Disputatio*, which was held a month and a half later.

3.5 CO-ORGANISATION OF THE BOARD MEETING COSCE {CONFEDERATION OF THE SCIENTIFIC SOCIETIES OF SPAIN IN BARCELONA {17 OCTOBER}

The Confederation of Scientific Societies of Spain (COSCE) held their Government Board Meeting on 18 October, 2017 at the Institut d'Estudis Catalans (IEC) in the Puig i Cadafalch Hall, organized



Left: Government Board Meeting of COSCE in the Puig i Cadafalch Room of the IEC.

Right: Board Members of COSCE and AE-BKH team in the Mercè Rodoreda Garden of the IEC.

by the AE-BKH.

COSCE contributes to the scientific and technological development of Spain, acting as a qualified and unified voice, both before the civil society itself and before its representative public powers in matters that affect science by promoting the role of science and contributing to its dissemination as a necessary and essential ingredient of culture. Represented by all areas of Sciences and Humanities, on the agenda was the subject of the meeting with the Scientific Council of the Ram6n Areces Foundation. The DECIDES 2017 Project report was presented. This project analyses the policies announced and implemented by the Government. The CONOCEROS + program that

COSCE initiated with conversations between parliamentarians and scientists through the program of meetings were discussed. The 2017 ENCIENDE Project, which is promoted by the COSCE for the teaching of sciences at the earliest ages was analysed along with the report and negotiation of the 2018 agreement. Also brought up among many topics were the COSCE 2018 Award, the Day of Societies 2018, the Creation of the COSCE Commission Draft of the Pact for Science 2018, the protocol for the admission of new societies and the advances with the Network of Foreign Societies, progress with the Federation of Spanish Medical Scientific Associations (FACME).



Board of COSCE at the cloister of the IEC. From left to right: Dr. Domingo Sánchez (Spanish Association of Theory of Literature); Dr. Alicia Alonso (Spanish Society of Biophysics); Prof. Ricard Navarro (AE-BKH); Dr. Nazario Martín (Spanish Royal Society of Chemistry); Jaume Estruch (Rubes Editorial); Dr. Gregorio Montero (Spanish Society of Forest Sciences); Dr. María J, Yzuel (Spanish Society of Physics) and Dr. Francisco Tirado (Society of Architecture and Computer Technology).

As an especial part of the meeting, Prof. Ricard Guerrero, academic director of the AE-BKH, had an informal conversation with Dr. Nazario Martín, president of COSCE in which explained the role of the Academia Europaea and of the Barcelona Knowledge Hub and offered the collaboration with COSCE in organizing their annual meeting in Barcelona under the auspice of the AE-BKH. The conversation was filmed and edited by Ruben Duro (AE-BKH) and is available on the AE-BKH "Barcelona in Action" Video Channel through the link <<http://vimeo.com/242089657>>.



3.6 DIRECTION OF THE VISITS TO THE ARCHAEOLOGICAL MUSEUM OF CATALONIA AND THE NATURAL SCIENCE MUSEUM OF BARCELONA {9 NOVEMBER}

The visit to the Archaeological Museum of Catalonia on 9 November, following Professor Guerrero's lecture on "Possible origins of life on Earth ... and beyond" in Banyoles in the Paleontological Heritage Course, was organised to see the exhibit entitled "The neolithic revolution. La Draga, the town of wonders". The headquarters of the Archeological Museum in Barcelona has the most complete chronological and territorial division of archeology in the country and one of the most important archeology libraries. In addition, the Museum manages the archaeological collection of the Generalitat de Catalunya, in Cervera (Catalan Cultural Heritage Agency), and is called to become the largest archaeological site of the country.



Museu d'Arqueologia de Catalunya

About 7,400 years ago, a group of prehistoric farmers and ranchers settled on the banks of the lake of Banyoles, becoming the most important Neolithic town in Catalonia, and where there was a real revolution. La Draga is the only lacustrine archaeological site in the Iberian Peninsula and one of the oldest and most important in the Western Mediterranean, which allows us to exemplify it through the extraordinary preserved heritage, partly underwater, a key stage in our history: the beginnings of agriculture and livestock. The thrill of being in an unrepeatable site leads to an innovative museographic proposal that uses audiovisual resources and virtual recreations to transport us to the Neolithic. The exhibition on the Neolithic revolution of La Draga, the town of prodigies is structured in areas that respond to four basic concepts: emotion, analysis, interpretation and imagination.



The impact generated by the discovery of the settlement of the village of La Draga presents a unique collection of original archaeological pieces representing the site: fauna, plant and food remains, objects of everyday life and elements connected with social sphere or beliefs. The reconstruction of the panorama of what happened in La Draga for about 4000 years is thanks to the huge amount of data obtained and processed by a large multidisciplinary scientific team, more than two hundred archaeological pieces from the Banyoles Archaeological Museum.

3.7 LECTURE AT THE CATALAN SOCIETY FOR BIOLOGY FOR THE ST. ALBERT'S DAY CELEBRATION {15 NOVEMBER}

On 15 November 2017, at 7 pm in the Prat de la Riba Hall, Prof. Ricard Guerrero, gave a lecture, organized by the Education Section of the Societat Catalana de Biologia (Catalonian Society of Biology)(SCB). The full title of the lecture was "Life that flows from the dark". It was a Commemorative lecture in honor of Saint Albert Magne Day, Patron Saint of Science.



Societat Catalana de
BIOLOGIA

The SCB is one of the most traditional and most active scientific societies in Catalonia. There are approximately 1,500 members, of which 80% do active research in universities or research centres. The scientific sessions of the SCB have a long tradition and are meeting points that allow researchers to network and collaborate effectively. The SCB organises activities around its 19 thematic sections in the most current aspects of basic or applied Biology, and 6 territorial sections. It also brings together a large number of secondary school teachers and other people related with the BIO area. The SCB is the point of reference for those interested in Biology in Catalonia.

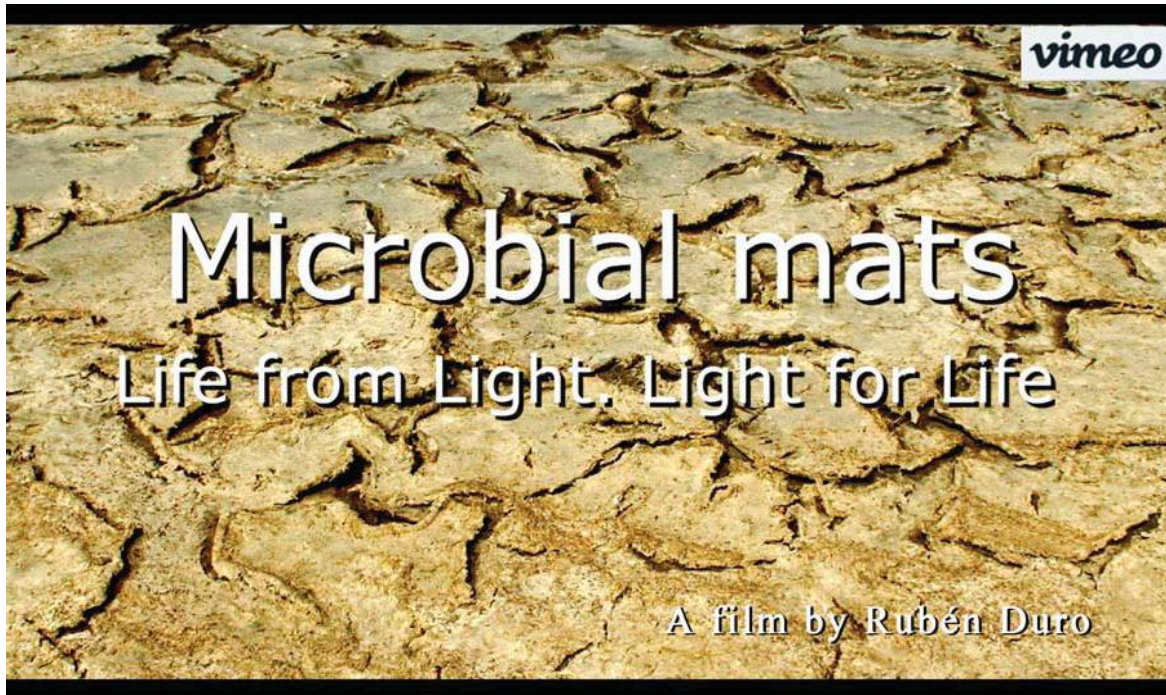
Professor Guerrero described our planet as a tiny blue dot lost in the immense space of the Uni-



Slide from the lecture "Possible origins of life on Earth ... and beyond" given by Prof. Ricard Guerrero at the Archaeological Museum of Banyoles on October 7, 2017. Drawing by Carles Puche, from Revista Mètode 67

verse, and in the chronology of time he described humans' presence on earth as only a short moment in the long arrows of time. He discussed the living systems of the Earth; the atoms of our body, those of animals, fungi, plants and microorganisms that were organized and evolved from the atoms of the galaxy trapped by our planet and were part of the great stellar disc that gave rise to the Solar System about 4,550 million years ago.

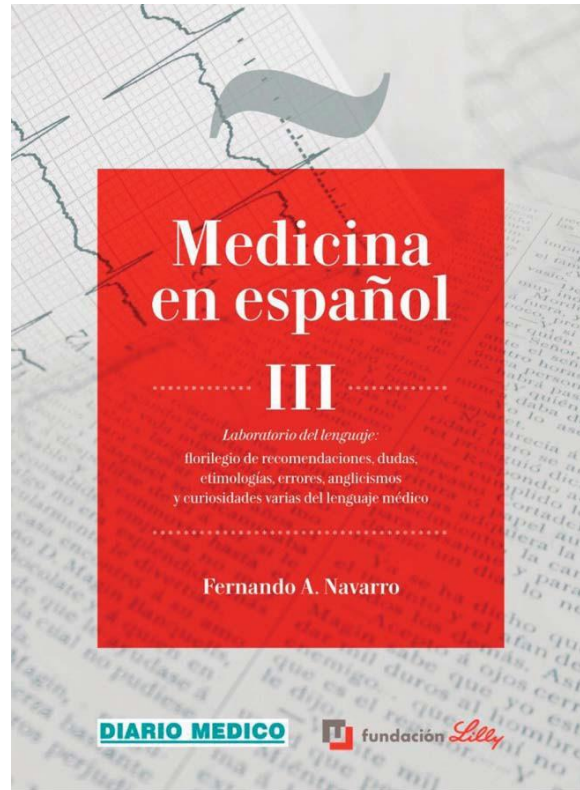
He went on to discuss how life appeared on Earth about 3,850 million years ago, following with the first 2,000 million years of evolution of prokaryotic microorganisms, the only inhabitants of the Earth, and highlighted ecopoiesis in the chronology. A film by Ruben Duro (AE-BKH) "*Microbial mats. Life from Light, Light for Life*", devoted to the supposed first ecosystems on Earth (the first appearance of ecopoiesis) is available on the AE-BKH "Barcelona in Action" Video Channel through the link < <http://vimeo.com/154780343> >.



Covering the climate and light conditions for the development of extremophilic macro-organisms, Prof. Guerrero took the audience on the adventure of wondering where "life" on the Earth could have been developing in the Solar System or in planets that orbit around other stars. The possibility of the investigation of primary ecosystems extended by many ridges of different oceans, especially in the Pacific and the Atlantic, in which primary production does not depend on photosynthesis, triggered reflexion about the discovery of the existence of other places in the Solar System where life could have arisen, although possibly only on Earth, thanks to the phenomenon of the ecopoiesis.

3.8 PARTICIPATION IN THE ACTIVITY OF THE LILLY FOUNDATION-REAL ACADEMIA ESPANOLA (MADRID, 29 NOVEMBER)

Prof. Guerrero attended the presentation of the book *Medicina en Español III* sponsored by the Spanish Royal Academy (RAE) and the Lilly Foundation on **November 29** at the Headquarters of the Spanish Royal Academy in Madrid to present the highlighted 2017 activities and the planned 2018 activities of the AE -BKH.



Cover of the book *Medicina en Español III* sponsored by the Spanish Royal Academy (RAE) and the Lilly Foundation.

The author of the book, Fernando A. Navarro, is a member of the technical committee of MEDES - MEDicine in ESpanol. Etymologies, mistakes, recommendations and other curiosities of medical language in Spanish are collected in this book promoted by the Lilly Foundation. "Medical language, with twenty-five centuries of history behind it, has reached a degree of richness and complexity that is hardly imaginable for those who see it from the outside," says Dr. Fernando A. Navarro. This work is aimed at bringing doctors closer to the pleasure of language. With this publication, framed within the initiative MEDES - MEDicine in ESpanol, the Lilly Foundation aims to contribute to improving the prestige of Spanish as a language of transmission and dissemination of scientific knowledge.

The presentation was chaired by D. Dario Villanueva, director of the Spanish Royal Academy and Jose Manuel Sanchez Ron, Deputy Director of the RAE. Also participating were Mr. Jose Ram6n Zarate, Deputy Director of Diario Medico, Mr. Jose Antonio Sacristan, director of the Lilly Foundation and D. Fernando A. Navarro, author of the book.

3.9 COLLABORATION WITH THE MARIE SKŁODOWSKA-CURIE EUROPEAN TRAINING NETWORK DIAPHORA PROJECT OF THE DEPARTMENT OF PHILOSOPHY, UNIVERSITY OF BARCELONA {12–15 DECEMBER}

diaphora

Philosophical Problems,
Resilience and Persistent Disagreement

The Marie Skłodowska-Curie European Training Network DIAPHORA serves as a European research and training platform for collaborative research on the nature of philosophical problems,



their resilience and the sources of persistent divergence of expert opinion about them, and their relation to conflicts in the practical sphere. DIAPHORA undertakes to provide 14 Early Stage Researchers with the knowledge and skills necessary to meet the demands of top-level research within its remit, as well as professional complementary skills training in both the academic and non-academic sectors, with the goal of widening their potential societal contributions and improving their individual career prospects. Diaphora holds a mid-term review so the fellows can present and get feedback on their work carried out so far. The 8 evaluated work package topics are: The Sources of Disagreement, Logic and Paradox, Determinism and Open Choices, A Priori Knowledge, The Nature of Representation, The Structure of

ment & Dissemination and Training Days. This provides the recruited Early Stage Researchers with skill training at network level that complements their training in the context of secondments (internships) with the partner organisations.

The meeting was funded by the European Commission and by the Faculty of Philosophy, University of Barcelona. Sven Rosenkranz (ICREA Research Professor; coordinator of the LOGOS Research Group in Analytic Philosophy, Department of Logic, History and Philosophy of Science, University of Barcelona) coordinated this meeting, which lasted one working day.

The AE-BKH prefer the month of November for hosting research fellow interns, as November is the month with the most important activity of the year, the *Disputatio* of Barcelona Week. At this time of the year, AE-BKH can offer comfortable office space for the respective interns, and this year we hosted Matthew Jope from Edinburgh University. He got his undergraduate and master's degrees at KU Leuven, Belgium. His Ph.D. research is on the structure of epistemic justification. His supervisors are Prof. Duncan Pritchard and Dr. Aidan McGlynn.

Ricard Guerrero, Director of the AE-BKH and Doina Bird attended the meeting held at the Philosophy Department at the UB as representatives of the BKH, one of the five partners of this initiative. The other partners are United Nations University Institute on Globalization, Culture and Mobility (UNU-GCM), Search for Common Ground, Ideaborn international consultants in Human Rights, and the International Catalan Institute for Peace.

4. ANNEXES

4.1 ANNEX 1

Updates on the Website

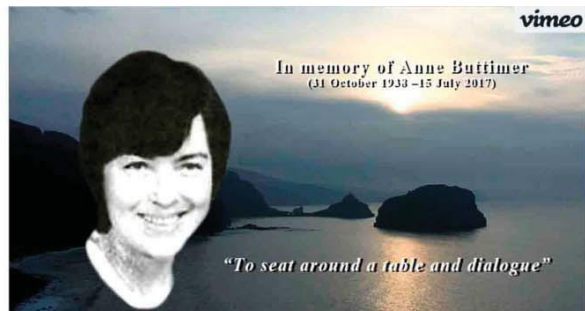
A new feature was added to the barcelona.acadeuro.org website: a PhotoGallery section within the "Barcelona in Action" page with a selection of photographs related to the different activities organised in the AE-BKH.

The AE-BKH "Barcelona in Action" Video Channel

The AE - BKH audiovisual "Barcelona in Action" video channel, running on the YouTube and Vimeo platforms represent the activities organised by the hub and as support to other institutions related to the Academia Europaea. The webmaster and social communicator of the AE-BKH is Ruben Duro, who is responsible for this development, offering technical support to the YAE for the production of several interviews included in the YAE Project "Dialog Project". Some of the videos produced by the BKH audiovisual team are included into the "Barcelona in Action" video channel and linked through the "Video" section of each "BarceloNEWS" newsletter with the aim of all MAE and visitors to the web being able to view them.

The Latest Videos in the AE-BKH "Barcelona in Action" Video channel

From the *Disputatio of Barcelona 2017*, held on November 23, in which Mateo Valero, director of the Super Computing Center of Barcelona (BSC) and Alison Kennedy, director of the STFC Hartree Centre, Daresbury, Warrington, UK explained different aspects of the topic "SUPERCOMPUTERS: An instrument for science, technology and the progress of society."



Left: Header image from the video "Supercomputers. An instrument for Science, technology and the progress of society" (available through the link <http://vimeo.com/238910016>). *Right:* Header image from the video "Homage to Anne Buttimer" (available through the link <http://vimeo.com/233712556>).

The video, "Homage to Anne Buttimer", was added onto the Vimeo channel, in which YAE member, Alexander Fidora, interviews Anne Buttimer. She reflects on aspects of her career such as integration of knowledge, innovation that arises from dialogue, and concern about lack of dialogue and sharing ideas among students in a digital world.

4.2 ANNEX 2

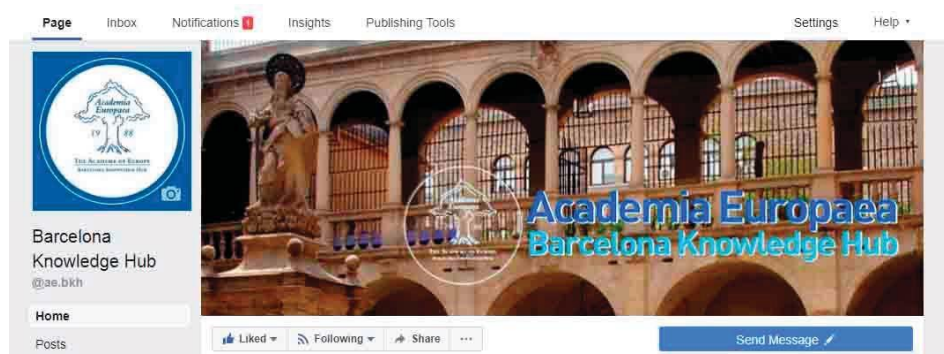
Diffusion of the activities of the AE-BKH

The AE-BKH office, with the purpose of informing about the activities developed by the hub, created the barcelona.acadeuro.org website and the corresponding accounts on Facebook, Twitter and Instagram platforms. Through these accounts it has been possible to introduce information about the activities related to the AE-BKH into the social network. The average number of visits to the Hub website per month in 2017 were 1,681 and the average number of page views on the Hub website per month in 2017 were 8,264.

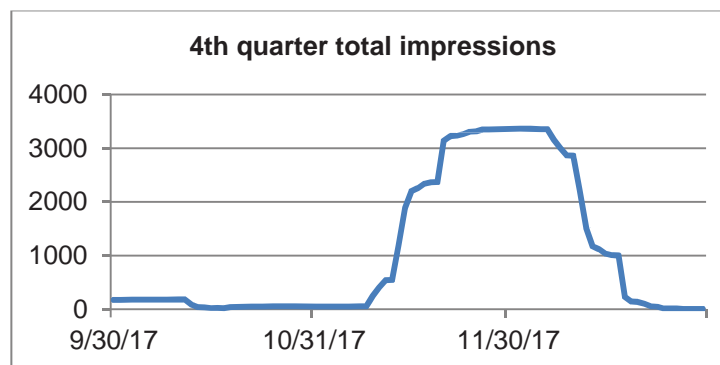
WEBSITE



FACEBOOK



Facebook activity {Data from 4th quarter of 2017}



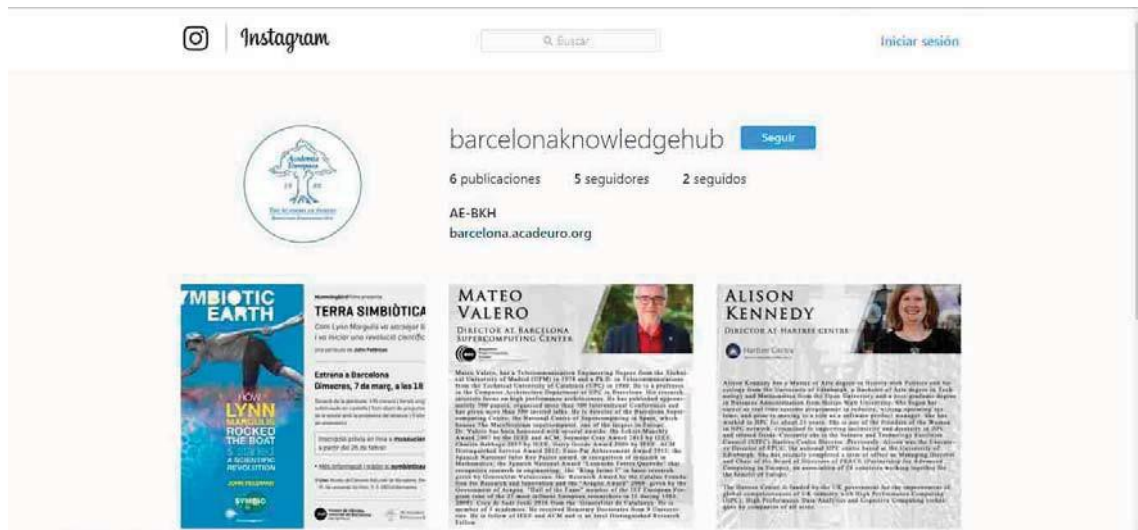
TWITTER



Twitter activity {Data from 4th quarter of 2017}



INSTAGRAM



Instagram account of the AE-BKH has been less active than the other networks during 2017. This has been due to the difficulties in managing all social accounts. This has been the cause of the small number of publications and followers of the account. To improve the positioning of the AE-BKH in Instagram is a task that should be addressed during 2018.

4.3 ANNEX 3

Promotion of the *Disputatio* of Barcelona 2017 via email and social media.

In order to ensure a high turnout for the *Disputatio* of Barcelona 2017, we began promoting it via email and social media four weeks ahead of the date. Given the broad appeal of the topic "Supercomputers: An instrument for science and the progress of society", a wide range of scientists, academics and members of the public would be interested in attending.

We contacted some university departments and e-mails were sent out to each department and institution that could be found, explaining the nature of the event and politely asking whether they would disseminate the information internally. Where possible, contact details of individual researchers at each institution were included in our mailing list. The final number of individual researchers contacted was 189.

Social Media

In addition to promoting the event via e-mail, a social media campaign online carried out via our Twitter account, Instagram account and two Facebook accounts. By the day of the event the number of followers of the *Academia Europaea* account on Twitter was almost 700. This meant each of our promotions was being seen by thousands of people. A new *Facebook page* for the *Disputatio* was created that allowed sharing with, and inviting, our followers. Finally, on the day of the event, live-Tweeted updates were made while the *Disputatio* was taking place. This allowed people who were unable to attend the event to follow along with the debate in real-time.

It is always difficult to judge what effect this kind of promotion has on the actual number of attendees at an event. However, it is clear that these campaigns had some positive effect because names recognised from the individual researchers located and e-mailed, as well as individuals from *Twitter* were appearing in our *AE* inbox requesting reserved seats at the *Disputatio*. Using social media in this way was also a good way of letting more people know what is going on at the Barcelona Knowledge hub, even for those who were unable to attend. Some of the other *AE* hubs also interacted with us via *Twitter*, helping to promote the event by sharing our tweets leading up to and during the event. The Cardiff hub was particularly helpful in this regard, therefore creating a wider audience for the whole of *AE*.

PARTNERS of the AE-BKH:



Generalitat de Catalunya
Departament d'Empresa i Coneixement
Secretaria d'Universitats i Recerca



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The AE-BKH Women's Week, 2013–2016

Mercè Piqueras,¹Ricard Guerrero²

¹Catalan Association for Science Communication (ACCC), Barcelona, Catalonia

²Academic Director, AE-BKH, Barcelona, Catalonia



Trencadís ("broken tiles") by Antoni

Summary. The article describes the activities of the Barcelona Knowledge Hub of the Academia Europaea (AE-BKH) on the occasion of the BKH-AE Women's Week, from 2013 to 2016. This Week will be continued in the coming years. Two major changes have revolutionised society and specifically higher education in only one century. Firstly, higher education and scientific research have rapidly expanded throughout the world. Secondly, this exceptional opportunity to promote and strengthen the values of science in the service of humanism, development and peace is partially the consequence of the achievements of women in science. Women have been able to apply their knowledge and skills to many fields of science and humanities, and their contributions to progress in all of them have been highly significant. [Contrib Sci 12(2):93-98 (2016)]

Keywords: International Women's Day lectures · AE-BKH Women's Week · Academia Europaea's activities · higher education for women · gender equality

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Introduction

From 2006 to 2012, the Institute for Catalan Studies commemorated the International Women's Day with a Distinguished Lecture. Since 2013, that celebration has been the responsibility of the Barcelona Knowledge Hub of the Aca-

demia Europaea (AE-BKH) [7,9]. To the Distinguished Lecture, other activities have been added, including a concert, a workshop and a visit to a center of special cultural or scientific relevance in Barcelona. Therefore, the activity has been renamed the AE-BKH Women's Week. The International Women's Day (IWD) first emerged from the activities of female

As Scientific Secretary of the Institute for Catalan Studies, one of the authors, R. Guerrero, commemorated the International Women's Day from 2006 to 2012. And from 2013 to the present, as Academic Director of the AE-BKH, organised the AE-BKH Women's Week. This article is based on a previously published article in the journal *Contrib Sci* 11(1):21-26 (2015).



Fig. 1. Celebration of the International Women's Day at the Barcelona Knowledge Hub of the Academia Europaea. Lectures by Nadia El-Awady, Egypt, on March 5, 2014 (left), and by Lynn Kamerlin, Sweden, presented by Anna Alberni, Barcelona, on March 4, 2015 (right). Held at the premises of the Institute for Catalan Studies.

workers at the start of the 20th century in North America and across Europe. On February 28, 1909, the first Woman's Day was observed in the United States. The Socialist Party of America proposed this day in honour of the 1908 strike of garment workers in New York, where women protested against working conditions. In 1910, the Socialist International Meeting in Copenhagen established a Women's Day to honour the movement for women's rights and to build support for achieving universal suffrage for women. The proposal was greeted with unanimous approval by the conference of over 100 women from 17 countries, which included the first three women elected to the Finnish Parliament. No fixed date was selected for the observance. As a result of the Copenhagen initiative, IWD was marked for the first time (19 March) in Austria, Denmark, Germany and Switzerland, and more than one million women and men attended rallies. In addition to the right to vote and to hold public office, they demanded women's rights to work, to vocational training and to an end to discrimination on the job [9]. In 1915, during the first winter and spring of World War I women started to take action by reclaiming their rights as wives, mothers and housekeepers, and the IWD provided the framework for their protests. As part of the peace movement, Russian women first observed IWD the last Sunday in February in 1913. In 1917, against the backdrop of the war, women in Russia held a mass demonstration for "bread and peace" on February 23 (8 March on the Gregorian calendar). Four days later, the Czar was forced to abdicate, and the provisional Government granted women the right to vote. Since those early years, the growing international women's movement has been strengthened by four global UN women's conferences and has helped to make the commemoration a rallying point

to build support for women's rights and participation in the political and economic arenas [6,9].

Many countries around the world followed the observation of the IWD, in commemoration of the women's struggles to revindicate their rights, recognizing their social achievements in those struggles and looking ahead to obtain a full and equal participation in society. After World War II, however, the IWD remained a communist celebration until the late 1960s. A group of women at the University of Illinois, Chicago Circle commemorated it in 1967. The United Nations (UN) started celebrating the IWD on March 8, 1975, on the occasion of the International Women's Year. In December 1977, a resolution of the UN General Assembly proclaimed a UN Day for Women's Rights and International Peace, which would be observed on any day of the year by Member States, according to their traditions. Nowadays, the IWD is commemorated in more than 100 countries and in some of them, including Russia, it is even an official public holiday [6,9].

Increasingly, IWD is a time to reflect on progress made, to call for change and to celebrate acts of courage and determination by ordinary women who have played an extraordinary role in the history of their countries and communities. Accordingly, the Institute for Catalan Studies (IEC), always eager to follow international trends and multinational cooperation, celebrated the IWD from 2006 to 2012 by holding a Distinguished Lecture during the week of March 8 (Fig. 1). Female researchers and scholars talked on a great variety of topics, as shown in Table 1. Several lectures related to the IWD given at the IEC have been published in *Contributions to Science* [2,4,5,8]. From 2013 on, other events have been added to the main lecture (Fig. 2). Therefore, the whole activity has been renamed the AE-BKH Women's Week.



INTERNATIONAL
WOMEN'S DAY at the AE-BKH

Table 1. Events related to the International Women's Day held at the AE-BKH since 2013 to present.

International Women's Day at the AE-BKH, 2013–2016

2013

March 6th "Two cultures, three cultures, or one only culture?"
Dacha Atienza, Museum of Natural Sciences of Barcelona; Merce Berlanga, University of Barcelona; and Genoveva Martf, Catalan Institution for Research and Advanced Studies (ICREA).

2014

March 5th Distinguished lecture: "Arab Spring, or long desolate Arab Winter?"
Nadia El-Awadi, Egypt; former president of the World Federation of Science Journalists.

March 6th "The Earth is our body. Lynn Margulis and Gaia"
Convenor: Carmen Chica, editor of the book *Once Upon a Time*. With the participation of: Isabel Esteve, Marta Estrada, Ricard Guerrero, Juli Peret6, Merce Piqueras, Anna Omedes, Carme Puche, Joandomenec Ros and Nicole Skinner.

2015

March 4th InterSection Workshop: "Women and the academic ladder"
Convenor: Lynn Kamerlin. With the participations of: Clara Corbella, Margaret Luppino, Maryam Ghafouri, M. Dolors Garcia-Ramon and Lourdes Beneria.

March 5th Convenor: Anna Alborni, Catalan Institution for Research and Advanced Studies (ICREA). Short film, "In the search of truth. In memory of Lynn Margulis", comments by director Carme Puche, Barcelona.
Distinguished Lecture: "Empowerment of women in the academic world", by Lynn Kamerlin, University of Uppsala, chair of the Young Academy of Europe (YAE).
Concert: "Women's Sephardic Songs". By Olga Miracle, soprano, accompanied by Noemi M. Agell and Pere Olive, string and percussion instruments.

March 6th Activities in support of the YAE:
Visit to the Museu Blau, the new Natural Sciences Museum of Barcelona. Visit guided by Marta Punseti.
Visit to the Cercle del Liceu pinacothèque. Visit guided by Maria Jimenez de Parga.

2016

March 3 Distinguished Lecture: "Women and cultural transmission. The essential role of translation" By Mary Ann Newman.
Greater than Life. In remembrance of Lynn Margulis (1938-2011) By Ricard Guerrero.
"Lin in Spain. How she stood our Spanish-Catalan accent." (Documentaries selected by Ruben Duro) and "Symbiotic Earth" by John Feldman, Filmmaker, Hummingbird Films, New York.
Concert: Music from Syria and Kurdistan, a Nation without a State. By the Gani Mirzo Band. Neila BenBey (singer), Francesc Puig (clarinet), Juan Jose Barreda (flamenco guitar), and Gani Mirzo (ud, buzuk, composer)

March 4 InterSection Workshop: "Women, migrations and war"
Convenor: Mitsi Ito. With the participations of: Mitsi Ito, Maryam Ghafouri, Pere Castano, Carmen Chica, Salvador Giner.
Commemoration of the International Year of Global Understanding by Silvia Pellicer.
Art exhibit: Digital art: Photomontage by Teresa Girones: "The Book of Beasts. Palmira 2015." Reflections of the dangers of power and the horrors of war. Paintings by Trini Sotos: "Women/Dones/Mujeres." Reflections and aesthetics of female emotions.



Fig. 2. Celebration of the Women's Week at the Barcelona Knowledge Hub of the Academia Europaea, on March 5, 2015. Women's Sephardic Songs concert by soprano Olga C. Miracle, Barcelona and Sacramento, California. Held at the premises of the Royal Academy of Medicine of Catalonia.

The role of the AE in promoting women at the upper academic levels

On 2 Nov. 2000, UNESCO's Director General, Dr. Koichiro Matsuura, received Prof. Stig Stromholm, President of the Academia Europaea, and Prof. Enric Banda, Secretary General of the European Science Foundation (ESF). Both visitors expressed their interest in joining UNESCO's efforts in South East European countries to contribute to the development of the intellectual activities in this region. Director General Matsuura supported this initiative of building upon the region's unique and diverse cultural identities and its historical close cultural links.

The following day, 3 Nov. 2000, another meeting took place between the Permanent Delegates to UNESCO of the following member states: Albania, Bosnia-Herzegovina, Bulgaria, Croatia, Greece, Italy, Romania and Slovenia. The Permanent Delegate of Italy to UNESCO and other delegates agreed on a two-step exercise, with proposals emerging from a scientific expert conference which would need to be examined at a governmental level. As a result of these preliminary discussions, a joint UNESCO-ROSTE/AE/ESF Organizing Committee was set up in order to prepare the expert conference as a first step of the process. The International Conference of Experts on the Reconstruction of Scientific Cooperation in South East Europe took place in Venice, Italy from 24-27 March 2001. It focused on country presentations and reviews of existing collaborations and furthermore on the potential South Eastern European countries to develop cooperation in some strategic fields of research.

Two major changes have revolutionised society and specifically higher education in only one century. Firstly, higher education and scientific research have rapidly expanded throughout the world. Access to higher education has become a common aspiration, and is no longer perceived as the privilege of social elites. Moreover, higher education is increasingly recognised as a social, economic and political driving force for progress. Nowadays, a larger proportion of humanity aspires to education, and higher education is increasingly regarded as tomorrow's general education. Secondly, this exceptional opportunity to promote and strengthen the values of science in the service of humanism, development and peace is partially the cause and the consequence of the achievements of women in science. By breaking down earlier social, cultural barriers, women can now apply their knowledge and skills to many fields of science, and their contributions to progress in all of them have been significant. Despite these important gains, women in higher education must still overcome difficult hurdles before being granted the same opportunities as their male peers. There is no real evidence that gender has ceased to stratify opportunities. Many obstacles to women's equity remain: advancement to the upper rungs of the career ladder is slow, the glass ceiling—a metaphor used to represent an invisible barrier that prevents from reaching upper levels in a hierarchy—still hangs low, and equal work does not yet mean equal salary. Within the top rungs of higher education, women in many countries are greatly underrepresented even though they receive the majority of undergraduate degrees.

Inequality in STEM higher education Gender equality to promote scientific and technological excellence

Shortages in the supply of trained professionals in disciplines related to science, technology, engineering, and mathematics (STEM) may weaken the innovation potential of a society [1]. Countries with higher proportions of engineering graduates tend to grow faster than countries with higher proportions of graduates in other disciplines. Moreover, future technical changes will probably be linked to abilities and tasks related to STEM disciplines. Over the years a wide gender gap has persisted at all levels of STEM disciplines throughout the world. Women have made important advances in their participation in higher education, yet they are still underrepresented in these fields. This is even a more acute concern in some regions of the world and at the senior-most levels of academic and professional hierarchies [1].

According to the UNESCO Institute of Statistics (UIS), women still account for a minority of the world's researchers: 28.4% of the total number of persons employed in R&D. The highest percentages are found in Central Asia (47.1%) and Latin America and the Caribbean (44.3%). Other regional averages for the share of female researchers for 2013 were: Central and Eastern Europe, 39.9%; Arab States, 36.8%; North America and Western Europe, 32.0%; Sub-Saharan Africa, 30.0%; East Asia and the Pacific, 22.6%; and South and West Asia, 18.9% [Women in Science, UIS Fact Sheet, no. 34, November 2015]. Even though Latin America has a high percentage of female researchers, they are rarely present in the upper strata of research. For example, while in Brazil 49 percent of researchers are female, only 27 percent of women lead research groups [Brazilian National Council for Scientific and Technological Development, CNPq, database, 2012].

Ceci and Williams reported in 2011 [3] that, while in Europe women accounted for 45 percent of Ph.D. graduates, they represented only 36 percent of associate professors and a mere 18 percent of full professors. Similarly, in the United States, excluding the humanities, 40 percent of new Ph.D. were women, but they were only 34 percent associate professors and only 19 percent of full professors. In terms of decision making, on average, in 2010 only 15.5% of institutions in the higher education sector were headed by women throughout the European Union, and just 10% of universities had a female rector [Gender in Research and Innovation. Statistics and Indicators. European Commission, Brussels].

A more inclusive workforce is assumed to be more innovative and productive than one which is less so [3]. Having scientists and engineers with diverse backgrounds, interests, and cultures and male and female assures better scientific and technological results and the best use of those results. Gender equality is a means to promote scientific and technological excellence rather than just improving opportunities for women. Women who might be interested in STEM but decide not to follow studies in these fields or who decide to change careers because of obstacles, real or perceived, represent a major lost opportunity not only for their own careers but also for society as a whole. Hindering women's scientific careers deprive societies of human resources, which is detrimental to competitiveness and development [1]. The root causes of gender disparities in STEM must be established through research, which would allow to develop appropriate policy responses. In developing countries, the importance of this issue is being more and more recognized. However, most of the literature related to gender inequalities in STEM and the policies designed to amend them refer to the United States and Europe. [1]

The role of the Academia Europaea

While women academic roles in the 21st century have much advanced, persistent inequities beg for new solutions. And it is in this context that institutions such as the Academia Europaea can provide representative, authoritative and independent perspectives to take on these and other social challenges. One of the main objectives of the Academia Europaea, an international, non-governmental and not-for-profit association of scientists and scholars from all disciplines, is to propose appropriate action to ensure that topics of trans-European importance to science and scholarship are adequately addressed. Thus, the Academia Europaea endeavours to encourage achievement of the highest possible standards in scholarship, research and education. But to do so, it must promote gender equality and facilitate connectivity and networking among all Members of the Academia. One of the activities in 2014 was the invitation to the coauthor of this article, in his quality of the Academic Director of the AE-BKH, to give the inaugural lecture in the International Seminar "Education and Empowerment of Women", held at

the Autonomous University of Madrid (UAM), at Cantoblanco, Madrid, on September 17-19. The Seminar was organized by the UAM, with the collaboration of the Iranian Embassy in Madrid and the Barcelona Knowledge Hub of the Academia Europaea. Social improvements in women's rights have still to alter the nature and structure of institutions at the highest academic level. This, however, should not prevent the Academia Europaea from seeking the full participation of the women's college-age population, who embody an as yet untapped source of talent for meeting the needs of society, today and in the coming years. To this end, the Academia Europaea must work with governmental institutions and with professional and learned societies to support higher education of women, by fearlessly embracing radical shifts in organizational paradigms. Gender equality must be pursued at all levels of education, including the highest, where the challenges are often the most daunting. The systematic incorporation of gender awareness into the fabric of institutional, departmental, and programmatic efforts is crucial. It is a great challenge for the Academia Europaea and for other high-level educational stakeholders in the continent.

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Annex 4

ANNUAL REPORT 2017

ACADEMIA EUROPAEA KNOWLEDGE HUB REGION BERGEN (AEkhRB)

The Academia Europaea Knowledge Hub Region Bergen is the regional hub for the academy in Northern Europa and will also provide the national academies of science and letters in Norway with a European partner in Bergen. The focus of Academia Europaea's Hub in Bergen will be resources and expertise relating to the The Nordic region, polar issues, the northern seas – Europe's northern dimension, sustainability and energy.

Professor Jan S. Vaagen of the Department of Physics and Technology at the University of Bergen has served as the Academic Director of Knowledge Hub Region Bergen since the Collaboration Agreement was signed on May 30th, 2014. Academia Europaea Member, Professor Laszlo P. Csernai at the University of Bergen, has served as Hub Manager since it was established in 2014.

In the BHAG meeting of 10.11.17 Rector Dag Rune Olsen of UiB presented the reorganization and new structure of Academia Europaea Knowledge Hub Region Bergen (AEkhRB), and Professor Eystein Jansen was appointed as Academic Director by UiB, with reference to the contract between UiB and AE concerning the AE Hub. It was also announced that the premises of the AEkhRB would be located at the Division of Research Management at UiB.

Academia Europaea Knowledge Hub Region Bergen

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AEkhRB meetings in 2017:

June 18, 2017, Bergen:

Regional Members Meeting and the event: *Consensus; "Harvesting the Ocean."* A programme of public talks and an open debate on the theme of "*Food from the Oceans*" also took place.

As a public engagement activity for "*Food from the Oceans*," and to mark UNESCO Sustainable Gastronomy Day as well as Bergen's status as a UNESCO Creative City of Gastronomy, a series of stalls offering food samples were offered to the public. The event attracted around 2000 visitors and was featured on the main news of TV2.

September 1-3, 2017, Bergen:

Norwegian Minister for Fisheries opened the festival "*Mat fra havet på Matfestivalen*". AE Bergen Hub participated in the exhibition and talks.

September 3-8, 2017, Budapest:

Participation at the AE Council Meeting and the AE Annual Business Meeting of Members. Including welcome of new 2016 AE members and presentation of 2017 Bergen scholars. Venue: Hungarian Academy of Sciences. There were a total of 21 new Nordic memberships in 2017; Denmark: 3 new members, Norway: 7 new members and Sweden: 11 new members.

October 19, 2017, Bergen:

The University of Bergen (UiB) and the Academia Europaea Knowledge Hub Region Bergen (AEkhRB), in cooperation with the Annual Meeting for the Norske Havforskere Forening, hosted the Buckland Lecture in 2017. The lecture was held by Buckland Professor for 2017, Professor Emeritus Paul Hart, University of Leicester.

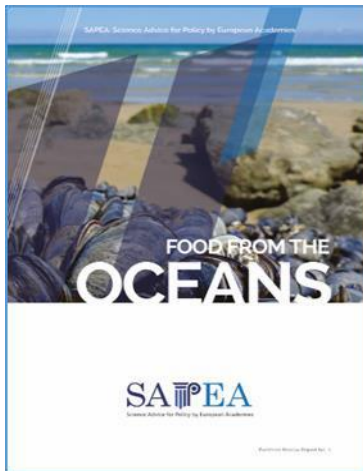
The lecture title was "*Stewards of the Sea. Returning powers to fishers*" and held by Bucland Professor 2017, Professor Emeritus Paul JB Hart, from the University of Leicester, England.

The lecture examined the factors that have distanced the fishers from the fisheries management process. It was discussed ways in which fishers are being brought back into the process of managing their stocks sustainably and contributing towards marine conservation. Professor Hart argued that fishers must be empowered to take the lead in the management system.

December 6-7, 2016, Bergen:

NorSAC; Atom Smashers and Cancer Therapy Tools, Northern Contributions-Past-Present- Future.

AEkhHB activities in 2017:



Food from the Oceans (FFO) project, on behalf of Academia Europaea:

Exhibitions, expert panels, public talks, education. SAPEA 2017, AE Cardiff Hub.

The FFO project is the result of a request from the European Commissioner for Maritim Affairs and Fisheries, Karmenu Vella, within the context of the Scientific Advice Mechanism (SAM). The question posed was: *“How can more food and biomass be obtained from the oceans, in a way that does not deprive future generations of their benefits?”*

Two international working groups were set up of experts in the field, one in the natural sciences and the other in the social sciences/humanities. Professor Dag Aksnes, from the University of Bergen, was the leader in the group in natural sciences, and Professor Carl Matthias Kaiser was a part of the group in the social sciences/humanities.

- **Radiation Therapy:**
Conferences, publications, Research and spin-offs.

Report on the 2017 AE activity "Energy and Sustainable Development".

This activity started in 2007 by the assistance of the AE Secretariat in London, based on the interested MAE-s.

Since 2014 it has been a supporting activity of the Academia Europaea Bergen Knowledge Hub.

Its last one-year activity was reported to the AE Annual General Meeting in Budapest in September 2017:

<https://acadeuro.w.uib.no/activities/meetings/>
<http://acadeuro.w.uib.no/files/2017/09/Csernai2AECouncil.pdf>

February 27, 2018:

Science, Energy and Sustainability-2018 (The role of Water) Keynote Talk at the 25th International Energy and Innovation Forum (NEIF) By Laszlo Csernai, Aqua World Resort Hotel, Budapest; organized by the SUNWO Zrt,.

January 2018:

Executive summary: Simultaneous use of black, green and white certificates systems by Eirik S. Amundsen and Torstein Bye.

January 10, 2018:

"Historic German church demolished to make way for brown coal mine"; to provide balance power for intermittent renewable energy production (The Local .de).

October 13, 2017:

We need to have a global perspective when discussing the future of the Norwegian petroleum industry – Article in Bergens Tidende (Lett for oss å vifte med pekefingeren), by Susanne Sperrevik, Geologist, BD and Exploration Director in the company M Vest Energy A S.

October 3, 2017:

Full electrification is dead-end – Article in Bergens Tidende, by Rolf K. Eckhoff MAE, Alex C. Hoffmann MAE, Laszlo Csernai, MAE, Jan S. Vaagen MAE.

September 11, 2017:

Exaggerated climate gains - Article in Bergens Tidende, Full electrification of Norway with hydroelectric power Energy will not give any global «Environmental gain» by Rolf K. Eckhoff MAE, Alex C. Hoffmann MAE, Laszlo Csernai, MAE, Jan S. Vaagen MAE.

August 17-29, 2017:

ICNFP-2017 –The 6th International Conference on New Frontiers in Physics, in OAC, Kolymbari, Crete, annual interdisciplinary meeting, with more than 400 registered participants, co-organized by the Academia Europaea - Bergen.

June 26, 2017:

Volcano Power Could Be 'Most Exciting Thing Since the Moon Landing,' Says Researcher – submitted by John Ludden, MAE, executive director of the British Geological Survey.

June 19, 2017:

Launch of the EASAC policy report on "Valuing Dedicated Storage in Electricity Grids", from 12:00 PM –2:30 PM, Palace of the Academies, Rue Ducale 1, Brussels.

August 17-29, 2017:

ICNFP-2017, 12-day conference with very large participation, and a self-supporting budget of nearly 500 000 NOK administered by us. This was the sixth conference of this series, which was supported by our activity from the beginning.

The following refereed scientific publications were posted on the web pages of this activity with the permission of its members:

[e18] Working Paper Version of the accepted paper for publication in The Energy Journal (doi.org/10.5547/01956574.39.4eamu): Simultaneous Use of Black, Green, and White Certificates Systems: A Rather Messy Business, Eirik S. Amundsen and Torstein Bye, The Energy Journal, Vol: 39, 4 (2018) WP.

[e17] Wettability Effects on Osmosis as an Oil-Mobilization Mechanism During Low-Salinity Waterflooding, S.B. Fredriksen, A.U. Rognmo, K. Sandengen, and M.A. Fernø, Petrophysics, 58, (1) p.28-35 (2017).

[e16] Radiation dominated implosion with nano-plasmonics, L. P. Csernai, N. Kroo, and I. Papp, arXiv: 1710.10954 [physics.plasm-ph].

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[e13] The benefits of cooperation in a highly renewable European electricity network, D.P. Schlachtberger, T. Brown, S. Schramm, M. Greiner, Energy 134, 469-481 (2017).

[e12] Allocation of nodal costs in heterogeneous highly renewable European electricity networks, Mirko Schäfer, Leon Schwenk-Nebbey, Jonas Hörsch, Bo Tranberg and Martin Greiner, EEM 978-1-5090-54992/17 IEEE (2017).

[e11] Decompositions of injection patterns for nodal flow allocation, in renewable electricity networks, Mirko Schäfer, Bo Tranberg, Sabrina Hempel, Stefan Schramm, and Martin Greiner, Eur. Phys. J. B 90, 144 (2017).

[e10] Optimal heterogeneity in a simplified highly renewable European electricity system, Emil H. Eriksen, Leon J. Schwenk-Nebbe, Bo Tranberg, Tom Brown, Martin Greiner, Energy 133, 913-928 (2017).

Founded in 1988, Academia Europaea is a non-governmental association, acting as a pan-European academy. Our members are leading scientists and scholars who collectively promote research, learning and education. We now number around 4,000 members, including more than 70 Nobel laureates.

Academia Europaea operates through a network of regional knowledge hubs in Barcelona, Wrocław, Cardiff and Bergen.



ACADEMIA EUROPAEA CARDIFF KNOWLEDGE HUB

ANNUAL REPORT

2017

PROMOTING RESEARCH EXCELLENCE
FOR POLICY AND PROGRESS





Introduction



By **Professor Ole Petersen**
CBE FMedSci FLSW MAE ML FRS

Academic Director
Academia Europaea Cardiff Knowledge Hub

Welcome to our Annual Report 2017, highlighting our latest achievements in meeting the priorities set out in our Strategic Plan 2016-2019.

Founded in 1988, Academia Europaea is a non-governmental association, acting as a pan-European Academy. Our members are leading scientists and scholars who collectively promote research, learning and education. Our membership now numbers approaching 4000, including 75 Nobel laureates.

Academia Europaea operates through a network of regional knowledge hubs in Barcelona, Wroclaw and Bergen. Our own hub, hosted at Cardiff University, joined as the fourth in 2016. Cardiff's world-leading research was ranked fifth for quality amongst UK universities in the last UK Research Excellence Framework and second for impact.

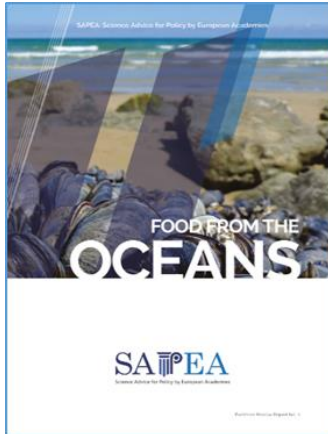
In 2017, the Hub set itself three major objectives for the second year of operation. Firstly, to meet our commitments in the SAPEA (Science Advice for Policy by European Academies) project, funded under Horizon 2020 and supporting policymaking in Europe. Secondly, to run a successful programme of Hub events. Thirdly, to continue to raise our profile, both regionally and internationally.

Sound progress was made in all of these areas, as we describe in this Report. In particular, I draw attention to the lead coordination role played by the Cardiff Hub in the Food from the Oceans project, the first evidence review report delivered by the SAPEA Consortium under the European Scientific Advice Mechanism. After extremely hard work by all staff members of the Hub, the year came to a very successful end, with the handover of the *Food from the Oceans* Evidence Review Report to the European Commission in Brussels on 29th November.

I would like to thank Sir John Skehel for his very active engagement as Chair of the Hub Steering Group. My thanks also to Professor Nora de Leeuw, Pro Vice-Chancellor (International and Europe), Cardiff University, for her great support.

A handwritten signature in black ink, appearing to read 'Ole H. Petersen', written in a cursive style.

Professor Ole H. Petersen
Highlights in 2017



Coordination of the *Food from the Oceans* evidence review for the European Commission, with handover of the Evidence Review Report to the Commission in November

Food from the Oceans Evidence Review Report

A vital role for the Cardiff Hub in the SAPEA (Science Advice for Policy by European Academies) project, funded by the Horizon 2020 programme

Meeting of the European Commission with representatives from SAPEA and Members of the High Level Group of Scientific Advisers, January. Commissioner Moedas (second front-left), Sir Paul Nurse MAE FRS (second front-right), Robert-Jan Smits (back-left), Professor Ole Petersen (second row, second-right)



Reaching a mass audience through public engagement events in Norway, Wales and Germany, June-September

Panellists at the Hamburg Academy, October [l-r] Prof Edwin Kreuzer, Angela Grosse, Prof Marian Paschke, Dr Gesche Krause, Prof Gerd Krause, Prof Ole Petersen, Prof Rolf-Dieter Heuer (Chair, High-Level Group of Scientific Advisers)

Achievements in 2017

Our achievements are set out in the context of the five priorities in the Strategic Plan 2016-2019.

Priority 1:

Establish a major role in supporting policymaking in Europe

A new project, SAPEA (Science Advice for Policy by European Academies), kicked off in November 2016. Funded under the Horizon 2020 programme, the Cardiff Hub plays a major role in delivering work in the project, on behalf of *Academia Europaea*. The Hub undertook the coordination of the *Food from the Oceans* evidence review, the result of a request from the European Commissioner for Maritime Affairs and Fisheries, Karmenu Vella. It addressed the key question of how more food and biomass can be obtained from the oceans in a way that does not deprive future generations of their benefits.

The *Food from the Oceans* Evidence Review Report was delivered on-time and to-budget and was the first in the series to be published by SAPEA.

In establishing a management framework for the topic, Professor Petersen represented SAPEA and *Academia Europaea* on the Coordination Group, with Louise Edwards, the Cardiff Hub Manager, chairing the SAPEA staff team. The Cardiff Hub oversaw the setting up of two international working groups of experts in the field, one in the natural sciences and the other in the social sciences/humanities. We also organised five meetings of the working groups, which took place in May and June.



Handover of the SAPEA Evidence Review Report to the European Commission, November

Cardiff University Library, recognised widely for its expertise in the systematic review method, conducted the literature search. Working with communications professionals at SAPEA, we ran successful public engagement events on the theme of Food from the Oceans in the cities of Bergen, Cardiff and Hamburg. We also promoted our work at an event organised by Cardiff University's Sustainable Places Research Institute to mark *World Oceans Day* on 8th June.



Professor Ole Petersen and Louise Edwards at the expert working group meeting on quality assurance, Paris, April

In another area of the SAPEA project, Professor Petersen served on an expert working group to establish procedures for assuring the quality of scientific advice. The group's output, *Guidelines on Advising Policymakers and Society & Procedures for Quality Assurance of Scientific Advice*, was delivered in July and subsequently published on the SAPEA website.

Priority 2:

Showcase outstanding regional research

Since the professional re-design and of the Cardiff Hub website in October we have published a continuous flow news items and more in-depth articles, example, reports on our events and SAPEA-related work.

We also launched an interview series regional *Academia Europaea* members, providing insight into their research career and achievements. first of these was with Professor Petersen.



The screenshot shows a webpage header for 'ACADEMIA EUROPAEA CARDIFF KNOWLEDGE HUB' with a logo. The main content is titled 'INTERVIEW SPOTLIGHT: OLE PETERSEN, CARDIFF HUB ACADEMIC DIRECTOR'. Below the title, it says 'Interview with Professor Ole Petersen CBE FMedSci FLSW MAE ML FRS' and 'Cardiff Hub Academic Director and Vice-President Academia Europaea'. A small photo of Professor Ole Petersen is included. The text below the photo reads: 'By Louise Edwards, Cardiff Hub Manager. As the first in a new series of interviews with Members of Academia Europaea connected with the Cardiff Knowledge Hub, Louise Edwards asks Professor Ole Petersen to share highlights of his life and...'.

launch 2016, of for

with

The

All these new editorial approaches have been effective in driving up traffic to the Hub website. Between January and December 2017, there was an increase of 57% of online visits, compared to January-December 2016.

To facilitate our work in the SAPEA project, we undertook a major data-gathering exercise to update the expertise database of *Academia Europaea*. Around 800 AE members and YAE (Young Academy) members have responded to date, making it easier for us to identify experts in specific research fields. Of note, *Academia Europaea* and the Young Academy of Europe have both been particularly successful in having members appointed to SAPEA international working groups.



Professor Graham Hutchings FRS FLSW MAE (Cardiff University) was appointed to membership of the CCU (Carbon Capture and Utilisation) Working Group

Priority 3:

Engage with our membership

We have continued with our successful programme of lunchtimes debates on key aspects of science and research. The events are free and open to all, attracting a wide audience from the academic, public and corporate sectors. These events also gained traction on Twitter, regularly featuring in our monthly 'Top Tweet'.

Four debates were held in 2017:

- Open Science, 17th February



- Research Evaluation, 5th April
- Interdisciplinary Research, 9th June
- International Research Networks, 28th November

Our panel on interdisciplinary research ([l-r]Prof Petersen, Dr Stephen Hill, Dr Ian Viney, Prof Nicky Priaux, Prof Nick Pidgeon, Prof Cathy Holt (not pictured))

Priority 4:

Engage with wider stakeholders

Our quarterly newsletter has a circulation of nearly 5,000, including not only the membership of *Academia Europaea* but also senior staff at Cardiff University, the Welsh Government and the Learned Society of Wales. Participants in Hub events has included academic colleagues at universities in the region, for example, Cardiff Metropolitan, the University of South Wales and the GW4 universities at Bristol, Exeter and Bath. Small business owners and other corporate representatives have also been involved. Our performance in social media activity has been particularly strong, where we have used Twitter to reach out to a wider audience.

The Cardiff Hub supported an international symposium, *Neuroplasticity and Synaptic Function in Neuropsychiatric Disorders*, held at Cardiff University on 27th-28th April.



Prof Ole Petersen with other speakers at the Royal Institution, May 2017

Hub staff have also been speakers at external events. On 8th May, the Royal Institution held a summit for scientists, policymakers and other key stakeholders to consider the impact of the Brexit vote on science and innovation. The event, *Brexit: the scientific impact*, was jointly supported by *Academia Europaea*, EuroScience and the Royal Institution. *Academia Europaea* was represented by Professor Ole Petersen, in his capacity as Vice-President.

On 21st June, Hub Manager Louise Edwards spoke on the role played by Wales in the new European Scientific Advisory Mechanism, at a workshop held by the Sêr Cymru National Research Network for Low Carbon, Energy and Environment.

A highly innovative aspect of the SAPEA work has been public engagement activities for *Food from the Oceans*. These events provided the perfect opportunity for the *Academia Europaea* Hubs at Bergen and Cardiff to collaborate. The first, held in Bergen on 18th June, marked UNESCO Sustainable Gastronomy Day and Bergen's status as a UNESCO Creative City of Gastronomy. A series of colourful stalls offering food samples attracted around 2,000 visitors and featured on the main news of TV2, Norway's principal commercial channel, attracting up to 1 million viewers. A programme of public talks and an open debate on the theme of Food from the Ocean also took place.



Mat fra havet – Food from the Oceans, Bergen, June

The second event saw around 80,000 people come to Cardiff Bay over three days, 14th to 16th July, to enjoy the annual Cardiff International Food and Drink Festival. Food from the Oceans was the theme of a programme of events hosted at the Norwegian Church. This open and free programme of events was the result of collaboration between the Cardiff and Bergen Hubs, together with SAPEA (Science Advice for Policy by European Academies). We also worked closely with other partners, including the SAM (Science Advice Mechanism) Unit, the Learned Society of Wales, the Hordaland County in Norway and Cardiff University. Especially popular was the 'Food from the Oceans' stall, serving a variety of seafood from Norway and informing the public about SAPEA and the Food from the Oceans topic.



Crowds gather at the stall in Cardiff



Reception to mark the 25th Anniversary of the restoration of the Norwegian Church in Cardiff Bay, July 2017

The highlight of a full programme of public talks on the theme of Food from the Oceans was a reception to mark the twenty-fifth anniversary of the restoration of the Norwegian Church in Cardiff

Bay, supported financially by the Royal Norwegian Embassy and hosted in partnership with the Welsh Norwegian Society.



In co-operation with SAPEA and the Union of German Science Academies, a third public event, a debate on how to extract more food from the oceans in a sustainable manner, took place at the Hamburg Academy in the city of Hamburg, Germany on 5th October. SAPEA was represented by Professor Ole Petersen. Dr Gesche Krause spoke as a member of the SAPEA international working group and Professor Rolf-Dieter Heuer represented the European Commission's High-Level Group of Scientific Advisers.

Professor Petersen addresses the public event at the Hamburg Academy

Senior staff of the *Academia Europaea* Hubs played an active role at SAPEA workshops designed to strengthen relationships between European academies, held in Madrid and Bucharest. Professor Petersen represented SAPEA at the Bucharest meeting and took part in a panel that discussed the role of academies in providing scientific advice. Louise Edwards and Esther Dorado-Ladera of the Cardiff Hub facilitated some of the sessions at both events.



Royal Academy of Engineering, Madrid, September 2017



Prof Ole Petersen [centre], with Dr Yves Caristan (Secretary General, Euro-CASE) and Rapela Zaman (Director of International Affairs, The Royal Society), Bucharest, October

On 12th October, a largescale international conference in Tallinn, Estonia, focused on the impact and value of European research. The event was organised as part of the Estonian Presidency of the European Council, with Professor Sierd Cloetingh (AE President) and Louise Edwards (Cardiff Hub Manager) acting in advisory and editorial roles as members of the Steering Group.

Prime Minister of Estonia, Jüri Ratas, addresses the conference



Louise Edwards also played a pivotal role in shaping the programme for the SAPEA symposium, *Crossing Boundaries*, which was held the following day, and authored the published report (available on the SAPEA website).

Panel discussion on public engagement at the Crossing Boundaries symposium

In November, we were delighted to welcome *Academia Europaea* President, Professor Sierd Cloetingh and Sir John Skehel, Chair of our Steering Group, to the Cardiff Hub. In addition to meeting with the Vice-Chancellor of Cardiff University, Professor Cloetingh also spoke at the Hub networking event and panel debate, *International Networks* (see above).



[l-r] Prof Ole Petersen, Prof Sierd Cloetingh, Prof Adrian Harwood, Abdul Rahim, Prof Phil Jones and Sir John Skehel

Priority 5:

Ensure future sustainability

In addition to the core operational funding provided by Cardiff University, the Hub was boosted by Horizon 2020 funding for the SAPEA project, which enabled us to employ an extra member of staff from September. We welcomed Dr Esther Dorado-Ladera to the team as Executive Officer (Projects).

Governance

The Cardiff Hub Steering Group held its second meeting on 19th October. The following distinguished scientists and scholars serve on the Group:

Yves Barde MAE FRS

Nora de Leeuw FLSW MAE

Dianne Edwards CBE FLSW FRS MAE

Theo D'Haen MAE

Donald Dingwell MAE

Stephen Holgate CBE FMedSci MAE

Colin Riordan FLSW

Irene Schulz-Hofer ML MAE

Sir John Skehel FRS FMedSci MAE

(Chair)

John Tucker FLSW MAE

Resources

Staffing



Academic Director
Professor Ole Petersen



Knowledge Hub Manager
Louise Edwards



Executive Officer
Judith Lockett



Executive Officer
Esther Dorado-Ladera

Finance

Cardiff University covered the salary costs of one FTE member of staff and one half-time member of staff, in addition to providing £10,000 for operating costs in the financial year 2017-18. The SAPEA project has also been a significant source of funding.

Key Performance Indicators

Indicator	Result	Performance improvement compared to 2016
Number of attendees at the Hub and Hub-supported academic events in Cardiff, January-December 2017	340	↑ 40%
Number of attendees at Hub-supported public engagement events	2,000 (approx.)	n/a
Number of visits to the Hub website January-December 2017	4,174	↑ 57%
Number of pages viewed on the Hub website January-December 2017	11,073	↑ 42%
Average number of times users were served a Hub Tweet in timeline or search results (per day, January-December 2017)	275	↑ 213%
Number of active user engagements (e.g. re-Tweets, likes) with the Hub Twitter account January-December 2017	1,334	↑ 959%
Number of Twitter followers	140	↑ 268%

Contact



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Annex 6

ACADEMIA EUROPAEA WROCŁAW KNOWLEDGE HUB ACTIVITIES REPORT FOR 2017

Signing the official Framework Agreement for Continuation of Academia Europaea Knowledge Hub in Wrocław

On the 7th of March, 2017 the President of Academia Europaea, Professor Sierd Cloetingh, and the Mayor of Wrocław, Rafał Dutkiewicz signed the official Framework Agreement for Continuation of Academia Europaea Knowledge Hub in Wrocław. This agreement prolongs the activity of the Wrocław Hub for next two years, i.e. 2017-2018, allowing for the implementation and realization of numerous projects.

The meeting took place at the premises of Academia Europaea Wrocław Knowledge Hub at Rynek 13, hosting many delegates from local academic institutions. The list of guests included representatives of AE: Prof. Sierd Cloetingh (the President of AE), Dr David Coates (Executive Secretary of AE), representatives of the Hub: Prof. Tadeusz Luty (Academic Director of the Hub) and Katarzyna Majkowska (Hub Officer) and representatives of local institutions: University of Wrocław, Wrocław University of Science and Technology, Wrocław Medical University, Eugeniusz Geppert Academy of Art and Design in Wrocław, Wrocław Academic Hub, Academy of Young Artists and Scholars. The meeting included presentations of the undertakings of AE Wrocław Hub, projects and plans of partner institutions, and main presentation of Prof. Cloetingh, presenting the cooperation between AE and SAPEA.

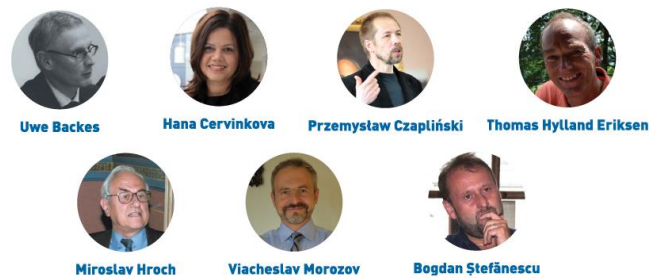


The first seminar in the second series of “The Wrocław Seminars” – New Nationalisms: Sources, Agendas, Languages, 25-27 September 2017

The Seminar New Nationalisms: Sources, Agendas, Languages took place between 25-27 September 2017 in Wrocław, Poland. The academic programme of the seminar was developed by dr. Dorota Kołodziejczyk (University of Wrocław), Prof. Siegfried Huigen (University of Wrocław), and Prof. Hana Cervinkova (Lower Silesian University, the Czech Academy of Sciences). Seven keynote speakers and 19 junior scholars attended the seminar. The event was coordinated by Pieter Emmer (Leiden) and Siegfried Huigen (Wrocław) together with the Organising Committee consisting of Prof. Uwe Backes (Hannah Arendt Institute, TU Dresden), Prof. Hana Cervinkova (University of Lower Silesia), Prof. Przemysław Czapliński (University of Poznań), Dr. Dorota Kołodziejczyk (University of Wrocław), Katarzyna Majkowska (AE Wrocław Knowledge Hub Officer) and Prof. Bogdan Stefanescu (University of Bucharest). Streaming of the conference was provided and is still available online (<http://ae.martini.pl/>).



Invited speakers:



The three-day seminar focused on the rise of populist nationalisms in Central Europe. It comprised several disciplinary perspectives:

1. The historical perspective sought to answer questions about how the new nationalisms build on the past, for instance:

- How do they use the past to build a new model of national identity as part of a strictly defined and exclusionary ethnos
- How do they formulate the concept of a historically rooted national subject?
- Which historical narratives do they turn into (new) national myths?
- Which historiographic models and historical research can be deployed to challenge the appropriation of history by nationalist politics?

2. The social sciences perspective sought to tackle the issue of contexts and reasons for the rise of nationalisms within Europe, with questions discussed including:

- The division into the EU “integrative project” and its opponent, “national loyalties” may inadvertently empower ethnic/exclusionary nationalism as the only viable politics for fostering national identities;
- How does mass migration influence the sense of identity, locatedness, and belonging? How does it happen that migrants are often lured into nationalist sentiments?
- How do contemporary mediascapes, including social media, influence identity formations and give individuals a sense of political agency?
- In what sense is postcommunist nostalgia a factor in attracting supporters of nationalist sentiment?
- In what sense does the current turn to nationalism look like a haunted revolution? What prior appeals to the will of the sovereign as supreme political agency does it echo?
- In majoritarian discourse – the one that claims legitimacy on the basis of representing the majority – national identity may turn into what Arjun Appadurai calls “predatory identities”. What are the mechanisms that trigger this transformation?
- How does nationalist discourse react to the emergence of new nations, and how are national identities constructed beyond the reach of nationalism?

3. The linguistic perspective invited a reflection on the formation, alliances and porousness of discourses, an investigation of imaginaries and conceptualizations of belonging in culture, the affect in language and politics, the language of dichotomous divisions vs. the language of linking and inclusion. The questions to cover were, among others:

- How and in what circumstances are the languages of emergency, nationalist discourse being one of them, constructed and deployed?
- How are the enemies created (named) and contained? How does it happen that in nationalist discourse the excluded margins are becoming ever broader?
- How is the stereotyping language of nationalist othering neutralized into seemingly acceptable euphemisms (e.g. refugee becomes migrant; xenophobia becomes “modern patriotism”)?



Presentations included a wide spectrum of case studies and theoretical discussions, ranging from topics in new media nationalist or counter-nationalist activism, civic- or nation-building aspects of historical manuals for schools, attitude surveys about minorities and/or immigrants done on the groups of youth, consequences of migration for shaping xenophobic or, to the contrary, open attitudes the and affective aspects of nationalist mobilisation, especially in the context of refugee crisis in Europe and the refusal of some states to receive relocated refugees, populist politics and the new media information control, various aspects of nationalist rhetoric (reliance on and production of symbols, tradition, history and memory), various forms and ideologies of new nationalisms and their historical backgrounds (and their uses of history and memory), civic education projects as viable ways to curb and block the development of nationalist ideologies, and other forms of political and cultural alternatives to populisms.

The seminar has been assessed highly by the participants who additionally opted for developing the programme of meetings to a steady annual format. The European Review, Cambridge University Press, has already expressed interest in publishing a selection of articles.

Event process and outcome The work on the forms of participation began in December 2016. The seminar’s Organising Committee decided to keep two categories of participants: invited keynote speakers and early career scholars selected in the Call for Papers process.

The Call for Papers was prepared and published both on the Seminar’s website and on the official website of the Academia Europaea. Registration was available both via online form and as a submission via e-mail. In addition, the CFP was sent to more than a dozen European universities. In order to participate in the seminar, candidates had to submit a completed application form, a short abstract of their paper, and a CV with a list of publications. After receiving 40 applications, the Committee decided on inviting 21 young scholars to participate in the seminar. It was obligatory for the participants to send a fragment (or the draft version) and the title of their papers until August 15, 2017, so that the other seminar participants could read them before the beginning of the conference.



Raul Cârstocea



Uroš Čemalović



Arthur Depner



Maria-Sabina Draga Alexandru



Simon Goebel



Diego Han



Jan Kajfosz



Justyna Kajta



Deborah L. Michaels



Adam Mrozowicki



Barbara Pabjan



Tamara Petrović Trifunović



Lucja Piekarska Duraj



Robert Pyrah



Agnieszka Sadecka



Peer Scheepers



Helge Wendt



Louis Wierenga



The participants were informed about conditions of participation in the event (accommodation and meals provided by the organisers, reimbursement of travel expenses up to the maximum of 100 EUR for Western Europe and 150 EUR for Central and Eastern Europe) and required materials (e.g. a pre-paper containing 4,000-6,000 words).

Air-tickets and travel reimbursement

Only senior scholars were entitled to receive the full reimbursement of air transport costs to/from Wrocław. The procedure of ticket purchase by the organisers included several stages. Lecturers were contacted by email to agree on the exact itinerary and time of travel. Three plane tickets have been purchased, and costs of one car travel and one domestic train ticket have been refunded via expenses claim form. As was stated in the Call for Papers, there was a budget for travel costs reimbursement: up to 100 EUR for connections from Western Europe and up to 150 EUR from Eastern and Central Europe, due to fewer cheap airlines offers in the region. Participants received expenses claim forms for the reimbursement of travel costs on the spot, together with conference materials.

Accommodation

All participants were provided with accommodation at the PURO Hotel. One person reported resignation too late to apply for the procedure of cost-free cancellation. According to the decisions made by the Organising Committee, organisers covered accommodation for up to four hotel nights. In the light of the above, senior scholars' hotel was covered by the grant funds. The young scholars' stays were covered with the support of the Municipality of Wrocław funds donated for the events organised by the Academia Europaea Wrocław Knowledge Hub.

Catering

The seminar organisers worked on the preparation of a complex order of catering services for all participants. During the event, coffee breaks were served by the Art Hotel where the conference took place. The coffee breaks were available throughout the three days of the event. Three evening meetings took place during the seminar. The first dinner for the speakers and organisers of the seminar was held at the La Maddalena Restaurant. The second meeting, a welcome dinner for all participants took place in the Malarska 25 Restaurant on 25th September 2017. During the last evening of the conference, the Farewell Dinner was served to all participants, which was the official ending of the event. It took place at the Art Hotel Restaurant on 27th September 2017.

Branding and website

For the needs of the event, different types of conference materials have been produced: a new batch of tote bags, paper folders and notepads with the logotype of Wrocław Seminars (stock sufficient for 2 years), lanyards with the logotype of the event, posters of the event, booklets with biographical notes and abstracts, seminar programme, and name badges. For the needs of the local promotion of the event, a poster of the seminar has been designed and printed. 50 conference packages have been prepared and handed to the participants and guests at the registration desk before the event. The roll-up of the conference was placed at the main spot of the conference room. The whole event was video-recorded, the live-streaming was provided throughout the whole duration of the seminar and it was available on the website of the seminar. After the event, all participants received a pen drive with the record of the whole seminar by post. The photos from the event are all available on the separate website: <http://ae.martini.pl/>. All the conference materials (online and printed) have been proofread by a professional translator.



To enhance the efficient management of the event and future editions of Wrocław Seminars the website <http://www.acadeuro.Wrocław.pl/> has been updated. The website CMS, built from scratch in 2016, allows to manage the content in an easier and faster way. Thanks to constant upgrade and update of the website information, the visual representation of the event definitely increased visibility of the event. The website (www.acadeuro.Wrocław.pl) is an extremely useful tool, as it contains not only details concerned with the seminar (Call for papers, Organisers, Organising Committee, Keynote Speakers, Participants photos, biographical notes, abstracts, pre-papers), Programme and Registration, but also the Gallery and Livestreaming. The second part of the website is devoted to the upcoming, current, and past activities of the Academia Europaea office in Wrocław.

Seminar results and future plans

AE Knowledge Hub Wrocław, noting a very positive response from all participants of the Relocating Central Europe seminar series in its so-far four editions, has decided to develop it into an annual event. The Wrocław Seminars are likely to become a model for top-quality academic research in the humanities, launching and coordinating productive academic communication and research collaboration between regions and disciplines. Publications from the seminars so far have been accepted by recognized academic publishers and journals. Our plans for further seminars include explorations in digital humanities, environmental issues, new mobilities, disability discourses and social inclusivity, and other topics of global urgency and local implications. In the time of shrinking resources for the humanities the success of our research initiative is of special importance – it contributes to safeguarding the development of European humanities.

39th MAX BORN SYMPOSIUM and 5th International Symposium “Optics and Its Applications” (Optics-2017)

**XXXIX Max Born Symposium:
5th International Symposium
Optics & its Applications
OPTICS-2017
3 - 7 July, 2017
Wrocław, POLAND**

Organizers
Directors:
David Blaschke (Poland & Russia)
Narine Gevorgyan (Armenia)
Agnieszka Popiolek-Masajada (Poland)
Roland Sauerbrey (Germany)

International Advisory & Program Committees:
Gernot Alber (Germany), Aranya Bhattacharjee (India),
Gozgh Buniyatyun (Armenia), Maria L. Calvo (Spain),
Angela Guzman (USA), Andrzej Jasowski (Poland),
Edward Kazaryan (Armenia), Jan Masajada (Poland),
Avinash Pandey (India), Aram Papoyan (Armenia),
William Rhodes (USA), Hayk Sarkisyan (Armenia & Russia)

Local Organizing Committee:
Coordinator: Mateusz Szlachowski (Poland)
Members:
Vardan Apinyan (Poland), Tobias Fischer (Poland),
Lukasz Golecki (Poland), Lukasz Juchnowski (Poland),
Artur Martirosyan (Armenia), Mine Sahakyan (Poland)

Organizing Centers:
✓ University of Wrocław, Poland
✓ Wrocław University of Technology, Poland
✓ Helmholtz-Zentrum Dresden-Rossendorf, Germany
✓ Russian-Armenian University, Armenia
✓ OSA & SPIE Wrocław Univ. of Technology chapters, Poland
✓ SPIE Russian-Armenian Univ. and National Academy of Sciences chapters, Armenia

Co-organizing student chapters:
➢ SPIE Yerevan State Univ. student chapter, Armenia
➢ SPIE Univ. of Trento Chapter, Italy
➢ SPIE BMSTU chapter, Russia

Invited Speakers:
Eugene Arthurs (SPIE, USA)
Michael Berry (University of Bristol, UK)
Walter Dittich (University of Tuebingen, Germany)
Carlos Lopez-Mariscal (Underwater Photonics, Mexico)
Viktor Lysiuk (Institute of Semiconductor Physics NASU, Ukraine)
Jürgen Mlynek (Humboldt University Berlin, Germany)
Lorenzo Pavesi (University of Trento, Italy)
Gerd Röpke (University of Rostock, Germany)
David Sampson (University of Western Australia, Australia)
Hayk Sarkisyan (RAU, Armenia & SPBSTU, Russia)
Ulrich Schramm* (HZDR, Germany)
Walter Strunz (TU Dresden, Germany)
Tomasz Zaleski (NILiS of PAN, Poland)

Topics:
✓ Optical properties of nanostructures
✓ Singular optics and its applications
✓ Strong field optics
✓ Silicon photonics
✓ Quantum optics
✓ Laser particle acceleration
✓ Nonlinear & ultrafast optics
✓ Photonics & fiber optics
✓ Mathematical methods in optics

The Symposium will combine:
✓ Invited lectures
✓ Contributed talks
✓ Student presentations (contest with awards)
✓ Poster session
✓ Student chapter presentations
✓ Professional development lecture
✓ Lab tours
✓ Social events

Supported by:
Uniwersytet Wrocławski
SPIE STUDENT CHAPTER
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HELMHOLTZ-ZENTRUM DRESDEN-ROSSENDORF

<http://www.ift.uni.wroc.pl/~optics2017/>

The 39th Max Born Symposium took place in Wrocław took place between 3-7 July 2017 and was simultaneously the 5th International Symposium in the series on “Optics and its Applications” (OPTICS-2017).

The Symposium was jointly organized by the University of Wrocław, the Wrocław University of Technology, the Russian-Armenian University (Yerevan, Armenia), the OSA & SPIE Wrocław Univ. of Technology student chapters, and the Russian-Armenian University and National Academy of Sciences SPIE student chapter (Armenia). The following SPIE student chapters were also involved in the organization: Yerevan State Univ. student chapter (Armenia), Univ. of Trento Chapter (Italy), and BMSTU chapter (Russia).

Here OSA stands for The Optical Society founded in 1916 as Optical Society of America and SPIE is the abbreviation for the International Society for Optics and Photonics.

OPTICS-2017 was attended by 62 scientists and students representing 13 countries: Armenia (8), Australia (2), Czech Republic (1), France (2), Germany (6), Hungary (2), Italy (3), Mexico (1), Poland (25), Russia (3), Ukraine (7), UK (1), and USA (1).

The Symposium was supported by the University of Wrocław, The Academia Europaea, SPIE, and Springer.

The program of the symposia included not only scientific presentations but also a career development lecture, presentations of the above societies, and public lectures. Each day of the symposium took place at a different scientific organization: University of Wrocław, the Wrocław University of Technology, and the Institute of Low Temperature and

Structure Research of Polish Academy of Sciences. This gave the participants the opportunity within the few days of the symposium to acquaint themselves with the main centres of scientific research in Wrocław and to visit their laboratories.

Different aspects of the broad spectrum of the present status of "Optics and its Applications" were presented in invited lectures, contributed talks and posters. During the symposium two public lectures were held, which were presented by the SPIE Visiting Lecturers Sir Michael Berry (“Optica fantastica: images to illuminate the physics of light”), and Walter Dittich (“The life and work of prominent physicists at Breslau University until 1933”).

The CEO of SPIE, Eugene Arthurs, presented a lecture entitled “Opportunities in Photonics”. The outlook on “Quantum Technology: The New European Flagship Project Initiative” was presented by Juergen Mlynek, the former president of the Helmholtz Association of German Research Centres, laureate of the Leibnitz prize (1992) and the Max Born prize (1996).

The goal of the symposium, organised with support of the Hub, was to bring together both young and experienced scientists from various countries working on optics, and to provide a perfect setting for their discussions of the most recent

developments in that area. The participants had an occasion to join excellent lecturers and to make personal contacts with worldwide known experts in the field of optics.

Thanks to the support by Academia Europaea three additional students from Eastern Europe could participate in the event: Andrii Barabashov (B.Verkin Institute for Low Temperature Physics and Engineering, Kharkiv, Ukraine), Anna Reymers (Russian-Armenian Uni., Yerevan, Armenia) and Andrii Shcherbakov (Taras Shevchenko National Uni. of Kiev, Kiev, Ukraine).

The Symposium perfectly served its main goal: to bring together experienced and young scientists alike from different countries working on optics and photonics, and to provide a perfect setting for their discussions about most recent developments and directions in that area as well as fostering their contacts thus developing and promoting the high Academic profile of Wrocław as a University city with its historical as well as modern role in the field of Optics.



Excellent Science Days 2.0, 23–25 October 2017

Academia Europaea Knowledge Hub Wrocław, Polish Academy of Science, Wrocław Research Centre EIT+ and Wrocław University of Science and Technology organized a 3-day workshop entitled Excellent Science Days 2.0.



The aim of the workshop was to facilitate good writing skills among researchers (useful in future scientific publications for universities and top level journals). The workshop gathered numerous representatives of the academic and journalist environments, during which the participants had a unique opportunity to collaborate with editors from the prestigious journal Nature: Liesbeth Venema and Bart Verberck, and took part in workshop conducted by representatives of the Excellent Science Office at the Polish Academy of Sciences: Ewa Kuśmierczyk and Marta Kowol, who specialise in the field of gaining ERC grants.

The workshop was set on the frame of 1,5-day meeting, organised at the premises of AE Hub, that gathered 15 participants from Eastern European countries (Poland – 8 people, Czech Republic – 2 people, Slovakia – 4 people, Bulgaria – 1 person). The workshop had a closed character and was conducted in English. The AE office organized a coffee break and lunches for all participants.

44th Congress of Polish Physical Society (10-15 September 2017) in Wrocław, Poland

44th Congress of Polish Physical Society was an initiative of the Wrocław Department of the Polish Physical Society and aimed for the integration and cooperation of the physical environment. The congress had a form of lectures and workshops, conducted by worldwide known physics, including laureats of Nobel Prize. The program of the Congress was dedicated not only to scientists, but the organizers prepared various attractions for high school students and children.



**44.
ZJAZD
FIZYKÓW
POLSKICH**



10-15 IX 2017 Wrocław

Academia Europaea Wrocław Knowledge Hub contributed to the congress by supporting the participation of several speakers, for example Prof. Shūji Nakamura, Prof. Gerard t' Hooft, Charles H. Bennett, MAE: Prof. Theodor W. Hänsch (photo below) and Prof. Anton Zeilinger.



Seminar on Philosophy and Topology, Wrocław Academic Hub, 1 June 2018

Academia Europaea Wrocław Knowledge Hub in cooperation with the Academy of Young Scholars and Artists is working on coorganisation of a Seminar entitled Philosophy and Topology. The seminar is directed to mathematics and physicists who are interested in the intensification of interdisciplinary research. The culmination of the meeting will be a debate at 18:00, entitled *What does philosophy have in common with mathematics and physics?*

Invited guests:

Jan Woleński (Jagiellonian University, Poland), Marek Kuś (Center of Theoretical Physics of Polish Academy of Science), Hannes Leitgeb (University of Munich, Germany), Peter Simons (Trinity College, Dublin, Ireland), Kevin Mulligan (Université de Genève, Switzerland), Thomas Mormann (University of the Basque Country, Spain), Bartłomiej Skowron (AMUiA, Warsaw University of Technology, Poland), Przemysław Swatek (AMUiA, PAS, Poland), Mateusz Kwaśnicki (AMUiA, Poland) The Wrocław Seminars

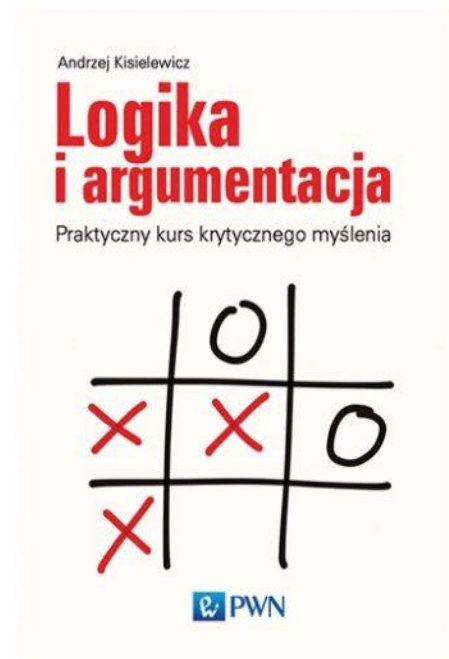
The Academia Europaea Wrocław Knowledge Hub will support the event by organising travel and accommodation of several speakers, who are also Academia Europaea Members.

Symposium on Mathematics and Philosophy, 7th December 2017

On 7th December 2017 Academia Europaea Wrocław Knowledge Hub in cooperation with the University of Wrocław and International Center of Formal Ontology organised the symposium entitled Formal Logic and Common Sense devoted to the book by Andrzej Kisiielewicz *Logic and argumentation. Practical critical thinking course*.

The opinion concerning the content of the book was presented by Prof. Ludomir Newelski, Prof. Marek Magdziak, Dr. Bartłomiej Skowron, Prof. Krzysztof Szlachcic and Dr. Marek Krajewski. The Symposium was inaugurated by the authors' speech about the books' idea and genesis.

Around 50 people took part in the Symposium. The publisher, Polskie Wydawnictwo Naukowe, presented and sold copies of the book. The recordings from the discussion are to be uploaded on YouTube on the channel of International Center of Formal Ontology. The lecturers and participants of the Symposium were encouraged to submit comments to professor Kisiielewicz's book. The comments will be published in *Studia Philosophica Wratislaviensia* magazine.



3rd Germanist Congress in Wrocław, 30 November–2 December 2017

On 30 November–2 December 2017 Willy Brandt Center of German and European Studies, University of Wrocław, Deutscher Akademischer Austauschdienst, in cooperation with Academia Europaea Wrocław Knowledge Hub organized the 3rd Germanist Congress in Wrocław.

The topic of the Congress was related to the history of the Lower Silesia region throughout centuries and the current situation of the German-speaking countries. The focus was put on the parliamentary elections in Germany and Austria, the tensions among the European Union countries, and the conflicts arising on the basis of migration, energetic and economic policy. There was also time for a debate focusing on the Polish-German relations after World War Two.

The event, supported by the Hub, was led by several speakers:

- Prof. Robert Grzeszczak (University of Warsaw)
- Agnieszka Łada (Institute of Public Affairs)
- Prof. Wojciech Kunicki (University of Wrocław)
- Editor Andrzej Stach (journalist, Berlin)
- Prof. Włodzimierz Borodziej (University of Warsaw)
- Prof. Dieter Bingen (Deutsches Polen-Institut Darmstadt)
- Joanna Urbanek (House of European History, Brussels)
- Prof. Andrzej Gwóźdź (University of Silesia)
- Dr Ewa Fiuk (Jagiellonian University)
- Róża Domaścyna (poetry translator)
- Richard Pietraß (poetry translator)
- Leszek Szaruga (poet)
- Prof. Hubert Orłowski (Adam Mickiewicz University in Poznań)
- Roman Bąk (poet, translator, editor)



Summer School on Democracy: Integration vs. Disintegration? CEECs towards the European Union and its Challenges, 14–15 September 2017

Academia Europaea Wrocław Knowledge Hub with Institute of Political Science (University of Wrocław) once again jointly organized “Summer School on Democracy” in cooperation with Dr. Piotr Sula. Wrocław Hub financed participation of Prof. Aleks Szczerbiak (University of Sussex). During the Summer School participants discussed the same subject of the general conference with different approaches – – the consequences for the CEE countries of the multiple crisis the European Union is facing recently. Some of the subjects were related to Euroscepticism, disintegration of the EU and other challenges to democracy, new forms of government and digitalization of media. This problem is successfully carried out by Prof. Aleksander Szczerbiak in numerous publications devoted to Poland and the theoretical framework defining the scope of analysis of contemporary Euroscepticism. His articles on this topic have been published in the most prestigious magazines in the field of social sciences such as *Journal of Common Market Studies*, *Party Politics* etc. He is an author of several books concerning European Union (e.g. *Poland Within the European Union: New Awkward Partner or New Heart of Europe?*). More information about the Summer School can be found under the link: <http://summerschool.politologia.uni.wroc.pl/About/Summer-school-1>.

Prof. Szczerbiak’s flights and accommodation in Art Hotel were provided by the AE Hub.



Specialization seminar: Towards the Development of the Mediatization Research. The Workshop with Professor Göran Bolin (MAE) – 11 December 2017

On 11th December 2017, the Institute of Journalism and Social Communication, Academia Europaea Wrocław Knowledge Hub organized a specialization seminar entitled “Towards the development of the Mediatization Research” conducted by Prof. Göran Bolin from Södertörn University. Prof. Bolin is an author of numerous publications in the field of Media Studies, member of the Committee Section of Film, Media and Visual Studies in Academia Europaea and Vice-President of Mediatization Section in Communication Research and Education Association. The workshop took place in Coworking space Fabryka Sensu.



The meeting had a workshop character, which was inaugurated with Prof. Bolin's lecture. The main assignments were focused on the materials that were circulated previously. In the inspiring interiors of Fabryka Sensus, the participants of the seminar worked on their projects, prepared articles and discussed the plans for future researches. The workshop gathered researchers from local and abroad educational institutes. Georgi Savchev (a young researcher from Eastern Europe) was granted with reimbursement of travel and accommodation (Art Hotel) expenses from project funds. Other participants came to Wrocław from Great Britain, Latvia and Romania as well as from Poland.

Two types of presentations were conducted:

- completed works: empirical research results, theoretical discussions
- works in progress: working papers, ideas of proposals.

Professor Bolin's flight costs, his accommodation at the Art Hotel as well as coffee break, lunch and dinner for all participants of the event on 11 December were covered by the Wrocław Hub.

Workshop-seminar visit of Plovdiv University of Environmental and Life Sciences and Agricultural delegation – 13-14 December 2017

On December 13-14, 2017, in cooperation with Wrocław University of Environmental and Life Sciences, Academia Europaea Wrocław Knowledge Hub hosted a delegation of scientists from the Agricultural University of Plovdiv (Bulgaria). The idea of a mutual meeting was initiated during the October workshops "Excellent Science Days 2.0". Four academics - Assist. Prof. Rositsa Cholakova; Assist. Prof. Dobrinka Balabanova, PhD; Assist. Prof. Maryian Yanev, PhD; Field researcher, Nesho Neshev, PhD came to Wrocław as it is especially important for Academia Europaea Knowledge Hub Wrocław to develop cooperation between scientific institutions in Central and East Europe, and to stress the primacy of establishing and strengthening inter-university contacts.



The visit enabled the employees of the University of Plovdiv to familiarize with the functioning of their faculties at the Wrocław University of Environmental and Life Sciences; as part of the visit, a working meeting was held with the authorities of the Faculty of Natural Sciences and Technology and representatives of fields such as: Plant Medicine, Horticulture, Agriculture. The visit was led by Dr. Bartosz Kozak, Dr. Renata Galek, Dr. Xymena Połomska and Dr. Krzysztof Kafarski.

As part of the organized visit, the flight and accommodation (Art Hotel) costs of four academic staff of the University of Plovdiv were covered. The delegation took part in lunch and dinner with representatives of the University, and had a short guided tour of Wrocław. All activities were organized and coordinated by Wrocław Knowledge Hub.



European Identity: An antidote to the crisis of the European Union? A lecture of Prof. Ireneusz Karolewski, 9 May 2017



A lecture by Prof. Ireneusz Karolewski was organised by the Hub in collaboration with the Willy Brandt Center (WBZ) for German and European Studies. The lecture gathered over 30 attendees and was presented in Polish.

Short outline of the lecture

The EU is facing a multitude of challenges, including the rise of Eurosceptic populism, a number of crises and centrifugal tendencies. Scholars have argued for some time that strong collective identity might be a solution for communities in deep crisis. The lecture took this as its point of departure and reflects on possibilities and limitations of the European identity. First, the lecture addressed the main issues of current research on European identity by focusing on the very concept of collective identity as well as on identity measurement. Second, drawing on nationalism research the lecture discussed main challenges to the “generating” of a supranational identity. Third, it explored specific identity “technologies” applied by the EU as well as their limitations. The lecture concluded with an assessment of how far and if at all a “nationalism-lite” of the EU can be successful.

Prof. Indekeu, Classical engines with ideal efficiency and nonzero power: is it possible? and About Einstein – 17 May 2017

Academia Europaea Wrocław Knowledge Hub in cooperation with Wrocław University of Science and Technology organized a lecture by Prof. Joseph Indekeu on *Classical engines with ideal efficiency and nonzero power: is it possible?* and another one, a very interesting lecture about Einstein, that gathered many students from the University of Science and Technology.

Short outline of the lecture

A classical engine with ideal efficiency (unity for a chemical engine and Carnot for a thermal one) has zero power because a reversible cycle lasts infinitely long. However, at least from a theoretical point of view, it is possible to conceive (irreversible) engines with nonzero power that can reach ideal efficiency. Our way to do this is by replacing the usual linear transport law by a sublinear one and taking the step-function limit for the particle current (chemical engine) or heat current (thermal engine) versus the applied force. We speculate on the physical motivation for a sublinear law and a step-function law in the context of criticality and first-order phase transitions, respectively. Quantum engines are also relevant in this context.



The lecture was a part of the 38th Max Born Symposium (*Crossing Frontiers in Science: a physicist's approach 38th Max Born Symposium in celebration of Andrzej Pękalski's 80th birthday*) which took place on 18-20 May 2017 in Wrocław.

The lecture of Prof. Bonifacas Stundžia: Language culture and policy in Lithuania (Kalbos kultūra ir politika Lietuvoje) within the International Lithuania Congress – 22-24 May 2017

The International Lithuania Congress is a cyclical event combining academic panels, expert debates and cultural happenings. Its main aim is to bring together representatives of many disciplines (law, political science, international relations, European studies, sociology, linguistics, as well as, cultural and literary studies), who in their research examine Lithuanian issues in a broader geopolitical context. The organizers of the Congress were the University of Wrocław, the “Labas” Lithuanian Studies Club and the Pobliza Foundation.

Academia Europaea Wrocław Knowledge Hub contributed to the event by inviting Prof. Bonifacas Stundžia [http://www.ae-info.org/ae/Member/Stund%C5%BEia_Bonifacas], who gave the opening Expert’s Lecture within the session entitled The Year of the Culture of Lithuanian Language: *Kalbos kultūra ir politika Lietuvoje* (Language, culture and policy in Lithuania).



The fourth edition, which took place from 22nd to 24th of May 2017, was devoted to the three symbolic topics constituting at the same time the general themes of this year’s Congress. Firstly, it is the Year of Culture of the Lithuanian Language, announced by the Lithuanian Seimas. Secondly, the year 2017 is also the 25th anniversary of the adoption of the Constitution of the Republic of Lithuania. Thirdly, it was important to stress the heritage of Algirdas J. Greimas (semiotician of Lithuanian descent, renowned literary scientist and linguist) on the 100th anniversary of his birth. Prof. Stundžia was accommodated at the PURO Hotel.

During the opening expert’s lecture of the Congress, in a few words about Academia Europaea activities and mission was presented as well as invitation to all further ventures and joint new initiatives on the local ground.

Visit of the “NANOin” Students’ Research Club to the University of Warsaw – 23-24 November 2017

Thanks to stronger collaboration between Academia Europaea Wrocław Hub and Wrocław University of Science and Technology, a group of 25 from Students Research Club “NANOin” (Faculty of Fundamental Problems Technology) had the opportunity to visit Warsaw to take part in a series of and to visit the Faculty of Physics lab at the University of Warsaw. The visit between 23 – 24 November 2017. The NANOin Students’ Club is supervised Grzegorz Sęk and brings together students who are passionate about nanoengineering.

To enable Wrocław students to develop inter-university cooperation the joint venture of the NANOin with the Students Research Club "Nanorurki" at the University of Warsaw (supervised by Dr. Jacek Szczytko), students of the Faculty of Fundamental Problems of Technology to Warsaw University of Warsaw. Students from Wrocław had an opportunity to develop inter-university cooperation and visit the laboratory of the Faculty of Physics of the University of Warsaw. It was also an occasion to organize one-day workshops, where both NANOin members and hosts gave their presentations.



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Wrocław University of Science and Technology

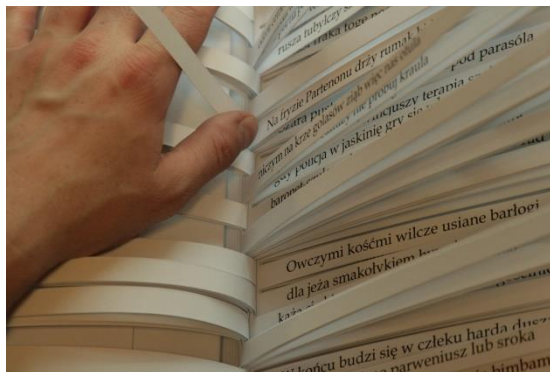
Academia Europaea Knowledge Hub Wrocław provided financial support the trip by covering the costs of one-night accommodation for participants of the meeting in Warsaw.

A lecture by Prof. Katarzyna Bazarnik from Jagiellonian University on “Liberature”, 1 December 2017

The Postcolonial Studies Center and Academia Europaea Wrocław Knowledge Hub organized a workshop entitled Liberature in translation. Untranslatables in culture. coordinated by Prof. Katarzyna Bazarnik from the Jagiellonian University.

The topic, Liberature, is a kind of literature in which text and its material form constitute an organic whole in accordance with the authors intention. The lecture gathered over 30 participants.

Katarzyna Bazarnik is assistant professor in the Institute of English Studies at the Jagiellonian University in Krakow, translator, curator of Liberature Reading Room. Together with Zenon Fajfer she wrote *Oka-leczenie* (Mute-I-Late 2000) and *(O)patrzenie* (Ga(u)ze 2003). They also co-edit "Liberatura" series of Publishing House. Author of *Joyce and Liberature* (2011) and *Liberature. A Book-bound Genre* (2016), editor of volumes essays, including *James Joyce and After. Writer and Time Incarnations of Textual Materiality. From Modernism to Liberature* (2014) and monograph issues of a translation on J. Joyce and B.S. Johnson. She has translated Fajfer's *Liberature or Total Literature. Collected Essays 1999-2009*, multimedia poetry volume *dwadzieścia jeden liter/ten* (2010). Her translation of B.S Johnson's *The Unfortunates* awarded at the Wrocław Good Books Fair in 2008.



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[The Wrocław Congresses' Ambassadors and Polish AE Members Meeting – 5 December 2017](#)

Academia Europaea Wrocław Knowledge Hub annually co-organizes the Wrocław Ambassadors Congress Meeting. In 2017 the meeting took place on December 5, at the AC by Marriott Wrocław hotel.

Due to broader program of the event concerning the topic of effective acquiring of scientific congresses and conferences, all Polish Members of Academia Europaea were invited to participate. The presentations concerned not only Wrocław's conference and hotel industry but also the tools and entities that effectively contribute to organizing scientific meetings and events (like the local organization Convention Bureau - Wrocław). Mr. Milos Milovanovic, an expert from Belgrade and founder of the Serbian national Convention Bureau, shared his knowledge with our guests concerning the topic of gaining events, forms of funding and providing support to the Ambassadors to acknowledge their role in gaining meetings.

During the meeting, the Katarzyna Majkowska presented the achievements of the Academia Europaea Wrocław Knowledge Hub. By organizing series of conferences, meetings or lectures, the Hub integrates the local academic environment with the Members of Academia Europaea.

For the members of Academia Europaea this was an occasion to learn what kind of support they can obtain from AE Wrocław Hub and which initiatives are possible to undertake in cooperation with local institutions and local entities. Significant aspects of functioning and support opportunities through city programs for students, entrepreneurs and academics were presented by Ms. Monika Sochacka, Deputy Director of the Wrocław Academic Hub.

In order to make it easier for Academia Europaea Members to attend the event, for interested persons (Prof. Jerzy Langer from Warsaw, Prof. Jan Woleński from Krakow), a railway (Prof. Woleński) and a plane ticket (Prof. Langer) were organized and an overnight stay at the AC Hotel the Marriott was booked. The meeting was also attended by Ms. Aneta Książek from the Polish Tourist Organization, supporting all kind of activities connected to Ambassadors program, conferences and congress organized in Poland. As part of the participation of Mr. Milanovic and Ms. Książek, AE covered transport and accommodation of Mr. Milanovic and Ms. Książek, as well as participation of Prof. Jan Woleński (MAE) and Prof. Jerzy Langer (MAE).



Round Table of Scientific Excellence: ERC Grants From The Beginning One More Time, 20 December 2017

The meeting took place on 20 December 2017 and was organised jointly by three local institutions:

- Wrocław University of Science and Technology
- Academia Europaea Wrocław Knowledge Hub
- Wrocław Academic Hub

The discussion revolved around the topic of gaining prestigious European Research Council grants for scientific research purposes of local institutions. The seminar was an opportunity for Rectors and Prorectors to exchange perspectives and opinions between various challenges, problems and ideas characteristic for educational institutions in Wrocław.



International Staff Week WSB – 17-18 May 2017

As a part of the program „3rd International Staff Week - Challenges for International Education” taking place in Wrocław on 17-18.05.2017 r. Academia Europaea hosted the visitation from WSB University.

The project guests were 15 representatives of academic and didactic staff from WSB Partner Universities: Cankiri Karatekin University-Turkey, Baltazar Zapresic Univeristy of Applied Sciences - Croatia, Universidad de Sonora – Mexico, National Mining University – Ukraine, Batumi Shota Rustaveli – Georgia, Franklin University – USA, European University – Ukraine.

The Hub presented its activities and plans and described the cooperation with the Municipality of Wrocław. In the second part of the meeting the representative of the Wrocław Academic Hub, Dr. Maciej Litwin presented the details of the local cooperation of scientific institutions with the city authorities.



SAPEA workshop: participation of Prof. Tadeusz Luty in the workshop in Bucharest – 16-17 October 2017

On the end of July, the Cardiff Hub Officers sent an invitation to Prof. Tadeusz Luty to participate in the workshop organized by SAPEA. The workshop aimed to strengthen cooperation between Academies and to support individual Academies in providing evidence-based policy advice.



Science Advice for Policy by European Academies

The workshops offer the opportunity to meet and exchange ideas with colleagues from Academies all over Europe, with discussions on topics such as Challenges faced by Academies when providing scientific advice for policy, working models and organizational structures or strategies used for promoting their activities.

The SAPEA project helps Academies of all sizes to raise their profile at the European level as well as aims to mobilise Academies in order to strengthen their contribution to SAPEA and SAM, through their membership of the five European Academy Networks (Academia

Europaea, ALLEA, EASAC, Euro-CASE and FEAM). The workshops specifically targeted senior staff members of the Academies in order to strengthen the operational links with the SAPEA project.

Prof. Tadeusz Luty, Academic Director of Academia Europaea Wrocław Knowledge Hub actively participated in the meeting. His travel and accommodation was covered by the workshop organisers.

Annual AE Conference – Budapest, 3-7 September 2017 r.

During the Annual Conference AE Wrocław Hub presented its activities and plans on two most important meetings of the Conference – during the Board and Council meeting and during the General Assembly meeting. All its initiatives were applauded by the AE Members and further events were planned accordingly to the Board decisions.

Administrative support to two Classes of AE: A1, A2

The Wrocław hub supports two Classes of AE – A1 Humanities and A2 Social Sciences. Katarzyna Majkowska Wrocław Hub took part in both Class meetings (A2 – Bonn, on 8 May, 2017; A1 – Paris, France on 7 July, 2017), where nomination cycle was finalized.

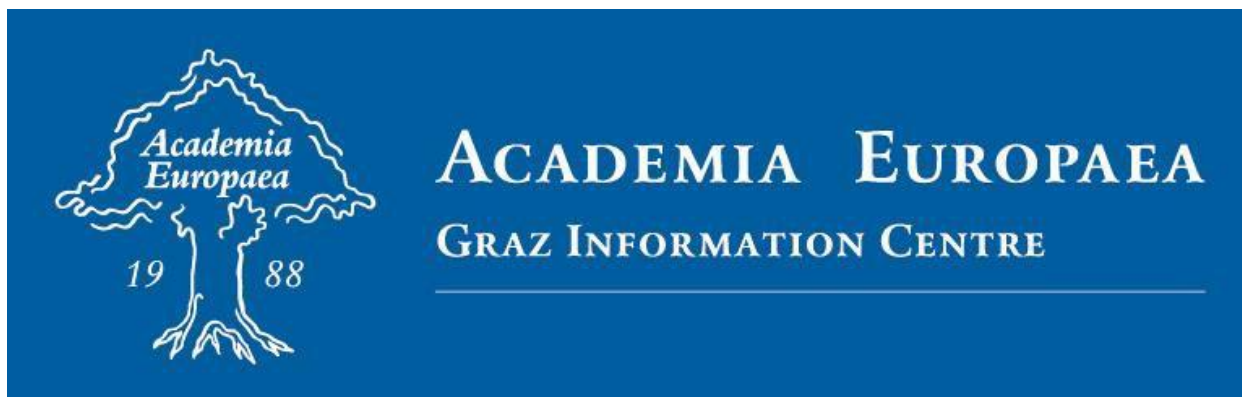
Promotional materials

In 2017 the Hub helped with creating business cards of the Members, updated the AE Directory, printed a new batch and created and sent welcome packs for New Members of Europaea.



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Board
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Academia



Introduction

Academia Europae Graz Information Centre was established in 2010 in an effort to increase the visibility of the Academy and its members. The Graz Information Centre is also responsible for the development and application of the nomination system and membership administration and registration. The AE-Info Server (<http://www.ae-info.org>, <http://www.acadeuro.org>) is hosted and operated by ISDS (Institute of Interactive Systems and Data Science), Graz University of Technology.

Website Tasks

- Web presentation of the Academy
- Presentations of the members of the Academy and their achievements
- Presentations of the individual sections of the Academy

Activities 2017

- 1145 pages edited
- 921 documents uploaded
- 41 News items posted
- 15 Events posted
- Generation and posting of membership statistics
- Management and upload of administrative pages (board meeting documents, council meeting documents, AGM documents, etc.)
- Creation of new website areas/(re)structuring of existing website areas
- Changes and improvements of navigation functionalities
- Support of Wroclaw staff concerning editing, contact data, statistics, mail lists etc.

Database (technicalpart)

The Graz Information Centre maintains and develops the membership database of the Academy.

Activities 2017

- Adaptions of section structure (reduction in sections, transfer of members to other sections)
- Adaptation and extension of the database web application for administration of database
- Support of new fields by the administration tool. The following services for the AE- Info Server maintenance team are now provided:
 - Search for and retrieval of information (database content) of members of the Academy
 - Features to correct and update all specific information which is stored in the member database (e.g. address information, email address, phone numbers, etc)
 - Functions to export member information from the database and to download it to the local filesystem (for storage csv file format will be used)
- Paid/not paid
 - Extension of the admin application to support the administration of the Paid/not paid information
 - Expanding the search functionality to support the “Paid/NotPaid” flags
 - Exclusion of the Members with status of “NotPaid” from the search results
- Extension of search facilities (gender, resigned and deceased members)

Database (content)

The Graz Information Centre updates and administers the membership database of the Academy.

Activities 2017

- Registration of changes in contact data information
- Search for contact data of unreachable members
- Registration of deaths
 - 23 deaths from 2017 registered
 - 44 deaths from previous years registered
 - Search for deceased members
- Generation and provision of mail lists for section chairs
- Supply of membership information for section chairs
- Regular database updates sent to London and Wroclaw

Nomination Process

The electronic “nomination” and “acceptance” workflows operated by the Graz Information Centre support the nomination and acceptance procedures.

Activities 2017

- Adaptation of the nomination form:
 - Change of sections
 - Change of membership type (foreign) (pull-down menu)
 - Addition of fields
- Assistance to members concerning the filling in of the nomination files
- 279 nominations registered
- Upload of nominations to the website, update and administration of access rights
- Electronic notification to class and section chairs
- Administration of section assessments
- Mails to 225 elected members
- 213 new members registered within 3 months after first contact
- Editing of 225 member pages, upload of photos
- Mails to non-respondents
- Administration of acceptances

Technical Support

The Graz Information Centre hosts the AE-Info server.

Activities 2017

- Control and tests of server
- Improvement of backup strategies for the AE-Info website (setup of a standby backup system)
- Continuous maintenance and update of the server operating system and database management system
- Implementation of a "watchdog system" for monitoring the correct operation of the AE-Info server

Twitter

The Twitter account of the Academy was created in 2015.

Activities 2017

- 368 followers by 2017
- 33 tweets posted

Meetings and Conferences

In 2017, the members of the Graz Information Centre, Robert Hoffmann, Dana Kaiser and Helmut Leitner took part in the following meetings:

- Hub Meeting in Graz: 28.04.2017. In a meeting attended by Sierd Cloetingh, the President of Academia Europaea, David Coates, the Executive Secretary, Frank Kappe, Dean of the Faculty of Computer Science and Biomedical Engineering, Graz University of Technology and the staff of the Graz Information Centre Robert Hoffmann, Dana Kaiser and Helmut Leitner, the past and future developments of the AE website, nomination process and database were discussed.
- AE Council and General Meeting in Budapest: 04.09.2017 – 06.09.2017. Dana Kaiser and Helmut Leinter attended the Annual Conference in Budapest and took part in discussions with class and section chairs and AE members about the AE web activities and administration issues. A fruitful exchange was also conducted with the representatives of the AE Knowledge Hubs.
- Nikita Harwich in Graz: 10.11.2017 – 11.11.2017. In a meeting with Nikita Harwich, the Chair of the History and Archaeology Section and the former chair of the section, Professor Renate Pieper, issues concerning collaborations within sections and classes, membership activities and possibilities of AE communication within and outside the Academy were discussed.

Staff



Technical Director
Helmut Leitner



Chief Technical Officer
Robert Hoffmann



Administrator
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