

# Plastics Heritage European Association Newsletter

# PHEA

Plastics Heritage European Association

2018

2<sup>nd</sup> issue



Copyright: ADAM

**12\_ADAM\_Design Generations\_IOL\_Past**

Photographer: flosanphotog

Cronotime EO66, 1966

Alarm Clock

*This object is part of ADAM's Design Generations expo, on show from 06.06.2018 to 04.11.2018*

Design : Pio Manzù  
Produced by Ritz Italora, IT

ABS

*We chose this object as it represents simplicity and user-friendliness, while remaining a fun item. This is the mass-produced object in all its glory, which retains a contemporary look thanks to a simple, pared-down design, including its extremely well-chosen, timeless face font.*



# PLASTICS HERITAGE EUROPEAN ASSOCIATION

PHEA is a network of European organisations, which are involved in plastics heritage of all aspects and times.

## Purposes

- ✓ To engage in activities relating to and to engage with research on 'historic polymeric materials' ('Hipoms')
- ✓ To communicate, exchange and mutually popularise the manifold, special knowledge and abilities of the PHEA members.
- ✓ To initiate applications and come to agreements for the exchange of students, researchers and for research cooperations.
- ✓ To apply for funding of European research programmes on Plastics Heritage.
- ✓ To organise the International Forum 'Plastics Heritage' on a biennial basis.
- ✓ To encourage publishing of results in e.g. the PHEA attributed International Journal of Plastics History **e-plastory** as well as other relevant journals.

## In this issue

- ✓ PHEA – 2
- ✓ Conferences and Seminars – 3-4
- ✓ Exhibitions and Fairs – 5
- ✓ News – 6-7
- ✓ Books – 8-9
- ✓ Other Initiatives – 9-10
- ✓ Prizes – 10-12
- ✓ Articles – 13
- ✓ Call for Papers – 14-17

## We would like your contribution

If you have any suggestion or recommendation, do not hesitate to contact us at [mariaelvira.callapez@gmail.com](mailto:mariaelvira.callapez@gmail.com) (Maria Elvira Callapez) and [sofia.pinto.rod@gmail.com](mailto:sofia.pinto.rod@gmail.com) (Sofia Rodrigues)

To all PHEA members:

- 1) During our first meeting in Brussels, we have decided to publish the PHEA-Newsletter.
- 2) In a future PHEA web page we would like to publish e.g. photos of the formation meeting in Brussels and of e.g. future Plastics Heritage Conferences.

If you do not explicitly contradict, you agree that you want to be in the PHEA mailing list, to obtain the PHEA-information and to publish from PHEA events photos including your person.

## CONFERENCES AND SEMINARS ON PLASTICS

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**10<sup>th</sup> International Conference on  
Chemistry Education and Research**

21.06.2018 – 22.06.2018

*Oslo, Norway*[See more](#)

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**3<sup>rd</sup> International Conference on  
Science and Literature**

02.07.2018 – 04.07.2018

*Paris, France*[See more](#)

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**Encontro Ciência 2018 | Encontro  
com a Ciência e Tecnologia em  
Portugal**

02.07.2018 – 04.07.2018

*Lisbon, Portugal*[See more](#)

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**6<sup>o</sup> Encontro Nacional de História das  
Ciências e da Tecnologia**

09.07.2018 – 11.07.2018

*Almada, Portugal*[See more](#)

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**EVA LONDON 2018**

09.07.2018 – 12.07.2018

*London, UK*[See more](#)

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**Conformity, Dialogue and Deviance  
in Health and Medicine**

11.07.2018 – 13.07.2018

*Liverpool, UK*[See more](#)

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**International Committee for the  
History of Technology – ICOHTEC –  
45<sup>TH</sup> Annual Meeting**

17.07.2018 – 21.07.2018

*Saint-Étienne, France*[See more](#)

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**Annual Congress on Emerging  
Materials and Nanotechnology**

06.09.2018 – 07.09.2018

*Bangkok, Thailand*[See more](#)

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**IIC's 26<sup>th</sup> Biennial Congress**

10.09.2018 – 14.09.2018

Turin, Italy

[See more](#)

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**4th International Tukic World Conference on Chemical Sciences and Technologies (ITWCCST 2018)**

07.09.2018 – 10.09.2018

Kiev, Ukraine

[See more](#)

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**2<sup>nd</sup> Edition of Global Conference on Catalysis, Chemical Engineering & Technology (CAT-2018)**

13.09.2018 – 15.09.2018

Rome, Italy

[See more](#)

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**International Conference on Polymers and Moulds Innovations – PMI2018**

19.09.2018 – 21.09.2018

Guimarães, Portugal

[See more](#)

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**8th International Conference and Exhibition on Biopolymers and Bioplastics 2018**

15.10.2018 – 16.10.2018

Las Vegas, USA

[See more](#)

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**International conference APA-2018 on 'Advances in Polymer Science & Technology'**

01.11.2018 – 03.11.2018

Kathmandu, Nepal

[See more](#)

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**13th International Conference on Design Principles & Practices**

01.03.2019 – 03.03.2019

Saint Petersburg, Russia

[See more](#)

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**4th International Conference on the Periodic Table: Mendeleev 150**

26.07.2019 – 28.07.2019

Saint Petersburg, Russia

[See more](#)

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## EXHIBITIONS AND FAIRS

### EXHIBITIONS AND FAIRS ON PLASTICS

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#### InterPlas Thailand

20.06.2018 – 23.06.2018

Bangkok, Thailand

[See more](#)

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#### Compounding World Expo 2018

27.06.2018 - 28.06.2018

Essen, Germany

[See more](#)

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#### Complast Kenya

28.06.2018 - 30.06.2018

Nairobi, Kenya

[See more](#)

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#### MALAYSIA-PLAS 2018

19.07.2018 - 22.07.2018

Kuala Lumpur, Malaysia

[See more](#)

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#### COMPLAST – SRI LANKA

10.08.2018 - 12.08.2018

Colombo, Sri Lanka

[See more](#)

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#### Taipei Plas

15.08.2018 - 19.08.2018

Taipei, Taiwan

[See more](#)

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#### Vietnam Manufacturing Expo 2018

08.08.2018 - 10.08.2018

Hanoi, Vietnam

[See more](#)

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#### UTECH North America 2018

11.09.2018 - 13.09.2018

Charlotte, North Carolina, USA

[See more](#)

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#### Kunststoffen 2018

26.09.2018 - 27.09.2018

Veldhoven, Netherlands

[See more](#)

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#### DMP - China Dongguan Int'l Metalworking Exhibition. Plastics, Packaging and Rubber Exhibition

27.11.2018 - 30.11.2018

Dongguan, China

[See more](#)

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#### INDPLAS '18

30.11.2018 – 03.12.2018

Calcutta, India

[See more](#)

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## NEWS

### NEWS ON PLASTICS

#### PORTUGUESE ARTIST TURNS TRASH INTO ANIMAL SCULPTURES

*LISBON: Broken crates and worn pipes pile up in the studio of Portuguese artist Bordalo II, who uses rubbish to create surprising animal sculptures to warn about the dangers of pollution.*

Source: [see more](#)

#### THE RACE TO SAVE HISTORIC PLASTIC ARTIFACTS

*Although plastics is a big problem in the ocean, museum conservators are rushing to save spacesuits, animation cels, and other pieces of history.*

Source: [see more](#)

#### SINGLE-USE PLASTICS: NEW EU RULES TO REDUCE MARINE LITTER

*With the amount of harmful plastic litter in oceans and seas growing ever greater, the European Commission is proposing new EU-wide rules to target the 10 single-use plastic products most often found on Europe's beaches and seas, as well as lost and abandoned fishing gear.*

Source: [see more](#)

#### NATIONAL GEOGRAPHIC LAUNCHES PLANET OR PLASTIC?, A MULTIYEAR INITIATIVE TO REDUCE SINGLE-USE PLASTICS AND THEIR IMPACT ON THE WORLD'S OCEANS

WASHINGTON (May 16, 2018)— As the amount of single-use plastic in the world's oceans continues to grow, National Geographic is announcing a new, global commitment to tackle this pressing problem. Today, National Geographic is launching **Planet or Plastic?**, a multiyear initiative aimed at raising awareness of this challenge and reducing the amount of single-use plastic that enters in the world's oceans. Doing so will not only benefit the thousands to potentially millions of marine animals that become entangled in, suffocated by, or ingest plastic each year, but will also contribute to the overall health of the planet's marine ecosystems and all who rely upon them.

Source: [see more](#)

## NEWS

### NEWS ON PLASTICS

#### MCDONALD'S TO SWITCH TO PAPER STRAWS IN BRITAIN AS COUNTRY TURNS AGAINST PLASTIC

*LONDON – The queen has backed efforts to curb the use of plastics. The Church of England has encouraged a similar push. The British government plans to legislate to require it.*

Source: [see more](#)

#### IKEA COMMITS TO PHASE OUT SINGLE-USE PLASTICS PRODUCTS BY 2020

*Global retailer with 363 stores says it wants to help customers live more sustainably.*

Source: [see more](#)

#### THIS HUMBLE AUSTRALIAN BEE IS HELPING TO DISRUPT THE PLASTICS INDUSTRY

*It doesn't make honey, live in a hive or have yellow stripes, but the unassuming Australian masked bee holds the key to disrupting the trillion-dollar global plastics industry.*

Source: [see more](#)

#### BAGS, BOTTLES BEING TRANSFORMED INTO ROADWAYS

*Melbourne, Australia – The future may be paved with recycled plastics. At least three projects around the world – in Australia, New Zealand and the Netherlands – are putting down pavement made using recycled plastics in place of virgin asphalt.*

Source: [see more](#)

#### PLASTIC BANK TRANSFORMA LIXO EM DINHEIRO PARA POBRES

*A Canadian duo has created the concept of "social plastic": people collect garbage which can be exchanged for products they need. Company sells it for European brands to reuse.*

Source: [see more](#)

## BOOKS

### BOOKS ON PLASTICS

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#### **Histories of Technology, the Environment, and Modern Britain**

*Histories of Technology, the Environment, and Modern Britain* brings together historians with a wide range of interests to take a uniquely wide-lens view of how technology and the environment have been intimately and irreversibly entangled in Britain over the last 300 years. It combines, for the first time, two perspectives with much to say about Britain since the industrial revolution: the history of technology and environmental history. Technologies are modified environments, just as nature is to varying extents engineered. Furthermore, technologies and our living and non-living environment are both predominant material forms of organisation – and self-organisation – that surround and make us. Both have changed over time, in intersecting ways.

Technologies discussed in the collection include bulldozers, submarine cables, automobiles, flood barriers, medical devices, museum displays and biotechnologies. Environments investigated include bogs, cities, farms, places of natural beauty and pollution, land and sea. The book explores this diversity but also offers an integrated framework for understanding these intersections.

Source: [see more](#)

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#### **Well-being, Sustainability and Social Development The Netherlands 1850-2050**

This open access book examines more than two centuries of societal development using novel historical and statistical approaches. It applies the well-being monitor developed by Statistics Netherlands that has been endorsed by a significant part of the international, statistical community.

It features The Netherlands as a case study, which is an especially interesting example; although it was one of the world's richest countries around 1850, extreme poverty and inequality were significant problems of well-being at the time. Monitors of 1850, 1910, 1970 and 2015 depict the changes in three dimensions of well-being: the quality of life 'here and now', 'later' and 'elsewhere'. The analysis of two centuries shows the

solutions to the extreme poverty problem and the appearance of new sustainability problems, especially in domestic and foreign ecological systems.

The study also reveals the importance of natural capital: soil, air, water and subsoil resources, showing their relation with the social structure of the 'here and now'. Treatment and trade of natural resources also impacted on the quality of life 'later' and 'elsewhere.' Further, the book illustrates the role of natural capital by dividing the capital into three types of raw materials and concomitant material flows: bio-raw materials, mineral and fossil subsoil resources.

Additionally, the analysis of the institutional context identifies the key roles of social groups in well-being development. The book ends with an assessment of the solutions and barriers offered by the historical anchoring of the well-being and sustainability issues. This unique analysis of well-being and sustainability and its institutional analysis appeals to historians, statisticians and policy makers.

Source: [see more](#)

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## OTHER INITIATIVES

### INITIATIVES ON PLASTICS

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#### **Journal of History of Science and Technology**

*HoST is an on-line international journal devoted to the History of Science and Technology. It explores the cultural and social dimensions of science and technology in history across the world.*

[See more](#)

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#### **Planet or Plastic?**

*Planet or Plastic? Is National Geographic's multiyear effort to raise awareness about the global plastic trash crisis.*

[See more](#)

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## OTHER INITIATIVES

### INITIATIVES ON PLASTICS

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#### **e-plastory - Journal of Plastics History**

**e-plastory** is the international journal for plastics history and heritage in all aspects. For this interdisciplinary forum, high level publications in English (reviews, articles, short communications, reports) are welcome. **e-plastory** is peer reviewed and free of charge. Its on-line way of publication in loose frequency enables early publication and world-wide accessibility.

[See more](#)

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## PRIZES

### PRIZES ON PLASTICS, SCIENCE AND TECHNOLOGY

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#### **Science & SciLifeLab Prize for Young Scientists**

The Prize is awarded annually to one young scientist for outstanding life science research for which he/she was awarded a doctoral degree in the previous two years. The topic of the entrant's thesis research must be in one of the following categories: **Cell and Molecular Biology, Genomics and Proteomics, Ecology and Environment, Translational Medicine**. Eligible entrants must have been awarded their doctoral degree in 2016 or 2017, and the subject of their thesis should match one of the Subject Tracks below. The winners from each category will compete for the grand prize.

Prize money: US\$30,000 for the grand prize winner, US\$10,000 for each of the category winners.

Publication: The grand prize winning essay will be published in *Science* and essays from each of the category winners will be published online.

Application deadline: **July 15, 2018**

## Rules of Eligibility

- The research described in the entrant's thesis must fall within one of the following categories (Subject Tracks):
  - **Cell and Molecular Biology:** research in this category will include cellular and molecular processes at levels ranging from single molecule to single cell to tissue and organ systems,
  - **Genomics and Proteomics:** research in this category focuses on analyses of gene- and protein-related events, at the scale of gene or protein networks to the complete set of genes or proteins in an organism,
  - **Ecology and Environment:** research in this category encompasses interactions between organisms and their environment, and how these processes are influenced by human activity,
  - **Translational Medicine:** research in this category builds on in vitro or animal model studies of biological processes to develop potential therapies or medical procedures.
- The prize will only recognize work that was performed while the entrant was a graduate student.
- The prize will be awarded without regard to sex, race, or nationality.
- Employees of Science/AAAS, collaborators in the management or sponsorship of this Prize and their relatives, as well as the following are not eligible to enter:
  - Scientists who were PhD students in the groups of any past or present member of the SciLifeLab management group (SciLifeLab Director, Co-Director, Infrastructure Director and Scientific Directors), the Integration Directors, or any member of the SciLifeLab Board.
- Entrants for the 2018 prize must have been awarded their Ph.D. between January 1 2016 and December 31 2017. As a rule, we will only accept submissions once within this time period

## Procedures for Entry

The entrant must submit the following items:

- A completed [Entry Form](#).
- An essay, written by the entrant, describing the thesis work and its implications for research in the selected Subject Track. The essay must not exceed 1,000 words in length and may include one figure or table.
- A one-page reference letter from your advisor or a member of your thesis committee. The letter should include an assessment of the applicant and comment on the significance of the applicant's research.

- The abstract of the thesis (not to exceed four double-spaced typed pages).
- A list of the following:
  - Full citations of all published or in press papers on the research described in the essay;
  - Academic and professional awards and honors that the entrant has received; and
  - Relevant professional experience.

The [Entry Form](#) and additional submission materials must be submitted electronically through our prize management system [here](#).

Below is a timeline for the prize selection process. You will be contacted only if there are additional materials or information needed.

August/September: Compilation and Review of Submissions

October/November: Selection of Prize Winner

December: Announcement of Prize Winner & Awards Ceremony in Stockholm

Deadline for Entries

**July 15, 2018**

Judging Procedures

First, *Science* editors will screen the essays and select three finalists from each Subject Track. Next, a committee of scientists chaired by the Editor-in-Chief of *Science* will select a winner for each Subject Track. The four winners will then compete for the grand prize. The grand prize winner and three category winners will be decided by October. *Science* will control both the evaluation process and the announcement of the winners.

Questions/Inquiries:

[SciLifeLabPrize@aaas.org](mailto:SciLifeLabPrize@aaas.org)

Source: [see more](#)

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## ARTICLES

### ARTICLES ON PLASTICS

MARINE LITTER PLASTICS AND  
MICROPLASTICS AND THEIR  
TOXIC CHEMICALS  
COMPONENTS: THE NEED FOR  
URGENT PREVENTIVE MEASURES

Gallo, F., Fossi C., Weber, R. et al.  
*Environ Sci Eur* (2018) 30:13

[See more](#)

THERMO-CATALYTIC  
DEGRADATION OF DIFFERENT  
PLASTICS TO DROP IN LIQUID  
FUEL USING CALCIUM  
BENTONITE CATALYST

Panda, A.K. *Int J Ind Chem*  
(2018)

[See more](#)

PLASTIC INGESTION BY JUVENILE POLAR COD (*BOREOGADUS SAIDA*) IN  
THE ARCTIC OCEAN

Kühn, S., Schaafsma, F.L., van Werven, B. et al. *Polar Biol* (2018)  
41:1269

[See more](#)

SINK-FLOAT DENSITY  
SEPARATION OF POST-  
CONSUMER PLASTICS FOR  
FEEDSTOCK RECYCLING

Bauer, M., Lehner, M.,  
Schwabl, D. et al. *J Mater  
Cycles Waste Manag*  
(2018)

[See more](#)

OCEAN PLASTICS AND THE BBNJ  
TREATY—IS PLASTIC FRIGHTENING  
ENOUGH TO INSERT ITSELF INTO THE  
BBNJ TREATY, OR DO WE NEED TO  
WAIT FOR A TREATY OF ITS OWN?

Tiller, R. & Nyman, E. *J Environ Stud Sci*  
(2018)

[See more](#)

## CALL FOR PAPERS

### CALL FOR PAPERS ON PLASTICS

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#### The Plastics Heritage Congress 2019 – History, Limits and Possibilities

Under the aegis of the Plastics Heritage European Association (PHEA), the Portuguese Center for the History of Science and Technology (CIUHCT) will host the Plastics Heritage Congress 2019.

*Plastics Heritage: History, Limits and Possibilities* (congress general theme), is the fifth in a series of international Plastics Heritage Conferences and will be held in Lisbon (29 – 31 May 2019), the capital city of Portugal at Museu da Farmácia.

This congress aims to address plastics history and heritage by encouraging papers that contribute to a deeper understanding of the socioeconomic culture and material culture of historic polymeric materials (HIPOMS) in their various representations and functions in society.

The main theme embraces the concepts of history, limits and possibilities of plastics heritage as organizing principles, thus perceiving their impact on the consumer and their technical and scientific developments. The programme committee suggests the following non-exhaustive sub-themes for contributors of individual papers, and posters:

- Plastics history (historic polymeric materials [*Hipoms*] manufacturing, engineering, companies)
- Plastics heritage (*Hipoms* in art, design, everyday use, technical objects and architecture)
- Collecting *Hipom* objects
- Conservation of *Hipoms* (artefacts, technical heritage, material characterization)
- Documentation and reproduction (archives, data bases, digital scanning, 3D-printing etc.)
- Plastics limits (degradation, waste problems, environmental impacts, history of social interactions)
- Plastics and emotions: impact on consumers and design personalisation.

**Historic polymeric materials (*Hipoms*)** comprise:

- The large group of natural polymeric materials (amber, birch pitch, bitumen, natural rubber, gutta-percha, natural fibers, natural

lacquers and varnishes, vegetable and animal glues, linoleum, shellac and Bois Durci etc.).

- Chemically modified biopolymers like cellulose nitrate, cellulose acetate and casein-formaldehyde masses.
- Historic synthetic polymeric material like phenolics, urea and other early thermosets, thermoplastics, elastomers, fibers, lacquers, glues etc.

All proposals must be in English. For advice on preparing your submission and the conference presentation, please consult the guidelines.

In addition to the scientific programme, the congress will include social events.

### **PROPOSAL GUIDELINES**

**INDIVIDUAL PAPER** proposals must include: (1) a 200-350-word abstract; and (2) a one-page CV.

Abstracts should include the author's name and email address, affiliation, a short descriptive title, a concise statement of the thesis, a brief discussion of the sources, and a summary of the major conclusions.

If you are submitting a paper proposal dealing with a particular subtheme, please indicate this in your proposal.

In preparing your paper, remember that presentations are not full-length articles. Depending on the number of papers in the session, you will have no more than **16-20 minutes** to speak, which is roughly equivalent to six – eight double-spaced typed pages. For more suggestions about preparing your conference presentation, please consult the guidelines at the conference website. Contributors are encouraged to submit full-length versions of their papers after the congress for consideration by Journal of Plastics History **e-plastory**. <http://www.dg-kunststoffgeschichte.de/e-plastory/index.php/e-plastory>

**SESSION** proposals must include (1) an abstract of the session (200-350 words at maximum), listing the proposed papers and a session chairperson; (2) abstracts for each paper (200-350 words); (3) a one-page CV for each contributor and chairperson. Sessions should consist of at least one set of presentations – but no more than four time slots of 90 minutes – and they may include three or four papers in each, which might extend series of successive sections over more than one day. Proposing a commentator – instead of the fourth presenter – is also possible. The programme committee reserves the right to relocate papers to different themes and add papers to sessions. We also encourage proposing roundtables and other "untraditional" as well as experimental session formats. Whatever the session format will be, organisers and chairs are

expected to reserve enough time for general discussion between the presenters and audience.

**POSTER** proposals must include (1) a 200-350-word abstract; and (2) a one-page CV. Abstracts should include the author's name and email address, a short descriptive title, a concise statement of the thesis, a brief discussion of the sources, and a summary of the major conclusions. Please, indicate one of the specified subthemes for your poster.

### **PROPOSAL SUBMISSIONS**

The final deadline for **session proposals is 30<sup>th</sup> August 2018** and for individual **paper proposals is 15<sup>th</sup> November 2018**.

Proposals should be sent electronically (as a pdf file) to Guenter Lattermann ([guenter.lattermann@uni-bayreuth.de](mailto:guenter.lattermann@uni-bayreuth.de)), the chair of the programme committee or Maria Elvira Callapez ([mariaelviraacallapez@gmail.com](mailto:mariaelviraacallapez@gmail.com)), co-chair.

<b>1 June 2018</b>	<b>Submission of sessions proposals opens</b>
<b>30 August 2018</b>	Submission of sessions proposal closes 23.59GMT
<b>01 September 2018</b>	Submission of individual paper proposals opens
<b>01 November 2018</b>	Acceptance/rejection of session proposals announced
<b>15 November 2018</b>	Submission of individual papers proposals closes at 23.59GMT
<b>07 January 2019</b>	Acceptance/rejection of individual paper proposals announced
<b>15 January 2019</b>	Draft programme published and opening of Early Bird registration
<b>3 March 2019</b>	Late registration
<b>4 April 2019</b>	Draft final programme issued
<b>17 April 2019</b>	Publication of final programme
<b>30 April 2019</b>	Final deadline for registration

## Accommodation suggestions in Lisbon



Accommodation  
Suggestions in Lisbon

### REGISTRATION FEES

Type of fee	Standard Ends April 30	Late Starts March 3
Full	190 EUR	230 EUR
Concessionary	80 EUR	100 EUR
Accompanying person	75 EUR	95 EUR
One-day ticket	70 EUR	80 EUR

### Included in the Fee

**Full fee** will cover documentation, coffee breaks, lunches, welcome reception, tour to Leiria, certificate, and book of abstracts. Please make sure you register and pay the fee until April 30 in order to secure your inclusion both in the scientific programme and in the Book of Abstracts.

**Concessionary fee** is open to students, retired people and independent scholars. You may be required to provide proof of status.

**Payments** will be made according to the instructions to be found in the **coming registration form**.