

# José Mariano Gago



Science, Policy and Scientific Culture

## SCIENCE Today and Knowledge as Our Common Future

An International Conference in Honour of José Mariano Gago

Friday, 20th November 2015, 8:45am-8pm,  
José Mariano Gago Theatre, Pavilion of Knowledge, Lisboa

### Objectives and Background

The Conference has been established to foster the legacy of José Mariano Gago by engaging government leaders, policy makers and experts worldwide to deepen the intellectual foundations of Science and Technology (S&T) policy with the imperative of building knowledge-based societies in a digital world. It aims to understand and to promote more inclusive open science and responsible S&T policy actions at a global scale by engaging both former and active policy makers and experts in a long-term dialogue promoting new opportunities for generational change in a digital society and the fostering up of a new generation of science policy leaders worldwide.

### Program

8:45-9:15: Welcome Coffee

9:15-9:45 **Welcome** and **Introductory Remarks**

- **Manuel Heitor**, Conference Chair (Director IN+/IST, Portugal)
- **Rosalia Vargas**, President, Ciência Viva, Portugal
- **Guilherme Oliveira Martins**, President, Centro Nacional de Cultura, CNC, Portugal

#### Introductory Remarks - a tribute to José Mariano Gago:

- **Irina Bokova**, Director General, UNESCO
- **Ernest J. Moniz**, U.S. Secretary of Energy; Cecil and Ida Green Professor of Physics, MIT (emeritus)
- **Carlos Moedas**, European Commissioner for Research, Science and Innovation
- **Artur Santos Silva**, President, Calouste Gulbenkian Foundation, Portugal
- **António Cunha**, President, Portuguese Council of University Rectors; Rector, Univ. Minho

Note: video messages by first three speakers

9:45-11:15 **Session 1 – POLICIES: Promoting new Opportunities for Generational Change**

**Co-Chairs: Maria Fernanda Rollo**, Instituto de História Contemporânea, FCSH UNL, Portugal; **Luís Magalhães**, IST, Portugal;

*The issue:* The rapid development of science and technology at a world level, the emergence of open science in a digital world, and the prospects for the rapid evolution of higher education in many developing countries in the years to come, are calling for new policy frameworks in diverse national and regional contexts at a global scale. *How should we foster a new generation of science policy leaders worldwide in a way that guarantees advancement of new opportunities for generational change?*

*Speakers (Round Table with brief, 10 min presentations, followed by discussion):*

- **Federico Mayor**, President, Fundación Cultura de Paz; Fundación Ramón Areces, Spain
- **Phillip L. Clay**, Massachusetts Institute of Technology, USA; Professor and Former Chancellor
- **Maciej Nalecz**, UNESCO, Director, Div. Science Policy and Capacity Building; SESAME, Secretary
- **Andrew Wyckoff**, OECD Director for Science, Technology and Innovation
- **Mario Campolargo**, European Commission, "Net Futures", DG CONNECT, Director
- **François Biltgen**, Court of justice of the EU, Former Minister of S&T and HE of Luxembourg

11:15 Signatures for a **public declaration on “Knowledge as Our Common Future”**

<http://www.knowledgecommon.com/>

Coffee break

11:45-13:15 **Session 2 – INSTITUTIONS AND INTERNATIONAL COOPERATION: *Building the Future***

*Co-Chairs: Maria Manuel Leitão Marques*, University of Coimbra, Portugal; *Paulo Ferrão*, IST Lisbon, Director MIT-Portugal Program

*The issue: A new paradigm of international academic and scientific cooperation is emerging as a major factor shaping development at an unprecedented level. It does not appear to match the usual model for exporting services and requires the understanding of local characteristics of technical change and of specific regulatory and institutional constraints, calling upon our knowledge of the social construction of technological systems in a digital world and at a global level, but still determined by local characteristics. How should we frame policies worldwide to help strengthen scientific institutions and foster international cooperation in a way that builds sustainable knowledge-based societies worldwide?*

*Speakers (Round Table with brief, 10 min presentations, followed by discussion):*

- **Jean-Jacques Dordain**, European Space Agency, ESA; former Director-General; France
- **Dava Newman**, Deputy Administrator of NASA, USA; Professor, MIT
- **Karin Sipido**, President, Alliance for Biomedical Research in Europe
- **Bruce Tidor**, Massachusetts Institute of Technology, USA; Professor, Director, MIT-Portugal Program
- **Peter Tindemans**, Secretary General EuroScience
- **Nuno Ferrand**, CIBIO, Universidade do Porto, Portugal

13:15-14:00 Lunch

14:00-14:20 **A tribute to José Mariano Gago**

- **Fabiola Gianotti**, CERN, Director General (from January 2016)
- **Cristina Garmendia**, President Fundación Cotec España, Former Minister of S&T and HE of Spain
- **José Luís Encarnaçãõ**, Retired Founding Director, Fraunhofer Institute for Computer Graphics, D

Note: video messages by first two speakers

14:20-15:40 **Session 3 – KNOWLEDGE DYNAMICS: *Stimulating Responsible Learning and Research***

*Co-Chairs: Manuela Veloso*, Carnegie Mellon University, USA; *João Sentieiro*, IST Lisboa

*The issue: The recent explosion in demand for higher education in a digital society by millions of young people around the world, associated with a growing perceived evidence of the potential benefits resulting from economic appropriation of the results and methods of science by society, have changed the perception of the “academic divide” or “scientific divide” at world level. How should we frame new policy actions to actively foster international knowledge networks and flows at a world level, in a way to further reduce existing gaps and divides?*

*Speakers (Round Table with brief, 10 min presentations, followed by discussion):*

- **Philippe Gillet**, Provost, EPFL; Chairman, International Risk Governance Council - IRGC, Switzerland
- **Jared Cohon**, Scott Institute for Energy Research, Carnegie Mellon Univ., President Emeritus, USA
- **Tom Kirchhausen**, Harvard Medical School, Director, HMS-Portugal Program; USA
- **Henrike Hartmann**, Head of Funding Division, Volkswagen Stiftung, Germany
- **Daniel Roos**, Massachusetts Institute of Technology, Professor, USA
- **Giorgio Sirilli**, IRCrES, Research Inst. Sustainable Economic Growth, Nat. Res. Council, CNR; Italy
- **Guillermo A. Lemarchand**, UNESCO

15:40 Coffee break

16:00-17:45 **Session 4 – EDUCATION and CULTURE: *New Challenges Towards “Science for All”***

*Co-Chairs: Ana Noronha*, Ciência Viva, Lisboa; *Vasilis Koulaidis*, Professor of Education, University of Peloponnese, Greece;

*The issue: Beyond any single measure, one may argue that it is the public nature of education, together with the public understanding of science and the related level up to which people trust in academic and scientific institutions, that determines the success of science and the politics of science policy. Which challenges emerge for science education and the promotion of scientific culture in a globalized digital society? And how to foster a new generation of science policy leaders worldwide that guarantee the systematic development and promotion of activities to foster science awareness, science education and the role of science in the daily life of citizens?*

*Speakers (Round Table with brief, 10 min presentations, followed by discussion):*

- **Alexandre Quintanilha**, IBMC, University of Porto, Portugal
- **Deborah Roseveare**, OCDE, Education Directorate
- **Irina Veretenicoff** and **Bert Seghers**, Royal Flemish Academy of Belgium for Science and the Arts
- **Svein Sjøberg**, Professor, Science Education, University of Oslo, Norway
- **Vittorio Silvestrini**, President, Città della Scienza Naples, Italy
- **Manuel Paiva**, Université Libre de Bruxelles, Belgium

17:45-18:30 **Closing Session and Remarks**

*Chair: Rosalia Vargas*, President, Ciência Viva, Portugal; *Jose Rivas*, Universidade de Santiago de Compostela, Spain.

**A closing message:**

**“A Knowledge-based Society under Catalysis: A Personal Summary, and Some Naive Proposals for Action”**, Video of José Mariano Gago’s concluding remarks as “Thinker in Residence” at the Royal Flemish Academy of Belgium for Science and the Arts, 2014 (Brussels, Palace of the Academies, 28 November 2014)

**Closing Remarks:**

- **Ricard Guerrero**, Academia Europea, Barcelona , Spain
- **Manuel Heitor**, Conference Chair (Director IN+/IST, Portugal)

18:30-20:00 Cocktail, *Pavilion of Knowledge, Lisbon*