

# WORLD SCIENCE FORUM BUDAPEST

4-7 NOVEMBER, 2015

## AGENDA

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## DAY 0 – WEDNESDAY, NOVEMBER 4, 2015

18:00-19:00  
OPENING CEREMONY  
Ceremonial Hall (Room A)  
19:00-19:05  
VIDEO MESSAGE FROM  
THE SOUTH POLE  
Ceremonial Hall (Room A)  
19:05-19:30  
UNESCO PRIZE CEREMONIES  
Ceremonial Hall (Room A)  
19:30-20:00  
CONCERT  
Ceremonial Hall (Room A)  
20:00-  
OPENING RECEPTION  
Academy Club and Krúdy Hall

## DAY 1 – THURSDAY, NOVEMBER 5, 2015

09:30-11:00  
PLENARY SESSION I:  
“SUSTAINABILITY CHECK 2015”  
Ceremonial Hall (Room A)  
11:00-11:30  
COFFEE BREAK  
  
11:30-13:00  
PLENARY SESSION II: “SCIENCE  
ENGAGEMENT: COMMUNICATING  
WITH SOCIETY”  
Ceremonial Hall (Room A)  
13:00-15:00  
LUNCH BREAK  
  
15:00-16:30  
PLENARY SESSION III:  
“CONFIDENCE IN SCIENCE”  
Ceremonial Hall (Room A)  
16:30-17:00  
COFFEE BREAK  
  
17:00-18:30  
PARALLEL THEMATIC SESSIONS I.  
A. Science for peace: Read-  
ing Room (Room D)  
B. Mapping the brain, unlocking the  
mind: Large Lecture Hall (Room J)  
C. Enabling science through parliamentary  
governance: Ceremonial Hall (Room A)  
19:30-22:00  
RECEPTION  
Bálna Cultural Centre

## DAY 2 – FRIDAY, NOVEMBER 6, 2015

09:30-11:00  
PLENARY SESSION IV.: “SCIENCE  
IN THE INNOVATION ECOSYSTEM”  
Ceremonial Hall (Room A)  
11:00-11:30  
COFFEE BREAK  
  
11:30-13:00  
PLENARY SESSION V.:  
“CHALLENGES IN GLOBAL  
COOPERATION: PRACTICES  
AND PITFALLS”  
Ceremonial Hall (Room A)  
  
13:00-14:30  
LUNCH BREAK  
  
14:30-16:00  
PARALLEL THEMATIC SESSIONS II.  
A. Fit for purpose global health poli-  
cies: Ceremonial Hall (Room A)  
B. Building resilience in a changing  
world: Large Lecture Hall (Room J)  
C. International Year of Light:  
Reading Room (Room D)  
16:00-16:30  
COFFEE BREAK  
  
16:30-18:00  
PARALLEL THEMATIC SESSIONS III.  
A. Renewable energy for global sustain-  
ability: Ceremonial Hall (Room A)  
B. Science and technology for disaster risk  
reduction: Large Lecture Hall (Room J)  
C. Science governance in Africa:  
Reading Room (Room D)  
19:00-  
RECEPTION  
Várkert Bazar

## DAY 3 – SATURDAY, NOVEMBER 7, 2015 The House of Parliament

09:30-10:15  
OPENING ADDRESSES  
  
10:15-11:15  
PLENARY SESSION VI:  
“PARLIAMENTARY SESSION:  
SCIENCE IN POLICY  
MAKING” (PART 1)  
11:15-11:45  
COFFEE BREAK  
  
11:45-12:45  
PLENARY SESSION VI:  
“PARLIAMENTARY SESSION:  
SCIENCE IN POLICY  
MAKING” (PART 2)  
12:45-13:00  
PRESENTATION OF THE  
UNESCO SCIENCE REPORT  
  
13:00-13:45  
CLOSING CEREMONY  
AND ENDORSEMENT OF  
THE DECLARATION



## DAY -1 – TUESDAY, NOVEMBER 3, 2015

09:00-17:00

European Conference for Science  
Journalist 2015 (European Science  
Journalists Association)  
Ceremonial Hall (Room A)

10:30-13:00

“Microbes and Society”,  
scientific session  
Large Lecture Hall (Room J)

15:00-17:30

Academia Europea Hungarian  
members meeting  
Reading Room (Room D)

## OPENING DAY – WEDNESDAY, NOVEMBER 4, 2015

09:00 - 10:30

UNESCO SIDE EVENT ON  
CAMPUSAFRICA: CULTURE,  
SCIENCE AND TECHNOLOGY  
AT THE SERVICE OF AFRICAN  
DEVELOPMENT  
Conference Room (2nd floor), Library of  
the Hungarian Academy of Sciences

09:00 - 10:30

UNESCO SIDE EVENT ON  
KNOWLEDGE BROKERING FOR A  
BETTER CONNECTION BETWEEN  
SCIENCE, POLICY AND PRACTICE  
IN COMPLEX POLICY PROBLEMS  
Dome Hall (Room K)

09:00 - 10:30

JRC SIDE EVENT ON SCIENCE IN  
FLUX: HOW SCIENCE SUPPORTS  
THE MANAGEMENT OF TRANS-  
NATIONAL RIVER BASINS  
Large Lecture Hall (Room J)

09:30 - 11:00

IEEE SIDE EVENT ON NEW  
PARADIGMS FOR INTEGRATING  
SUSTAINABLE DEVELOPMENT  
INTO SCIENCE AND ENGINEERING  
EDUCATION THROUGH IEEE  
EDUCATIONAL ACTIVITIES  
Vasarely Room (ground floor), Library of  
the Hungarian Academy of Sciences

11:00 - 12:30

WSF STEERING COMMITTEE  
MEETING  
By invitation only  
Bolyai Room (Room F)

11:30 - 13:00

UNESCO SIDE EVENT ON  
APPLYING NEW HUMAN  
GENOMICS TECHNIQUES AND  
MIDDLE INCOME COUNTRIES  
Conference Room (2nd floor), Library of  
the Hungarian Academy of Sciences

11:30 - 12:30

INTERNATIONAL NETWORK FOR  
GOVERNMENT SCIENCE ADVICE  
(INGSA) DEVELOPMENT GROUP  
MEETING  
By invitation only (INGSA, SciCom  
- Making Sense of Science)  
Council Room of the Presidium (Room B)

13:00 - 17:00

IAP/WAYS/ICORSA/GYA JOINT  
SIDE EVENT ON SCOPING THE  
FUTURE: VIEWS AND IDEAS  
OF YOUNG SCIENTISTS TO  
TACKLE GLOBAL CHALLENGES  
Large Lecture Hall (Room J)

13:30 - 16:30

UNESCO/AAS/ACADEMIA  
EUROPAEA/ISTIC JOINT SIDE  
EVENT ON GALVANIZING SCIENCE  
EDUCATION & RESEARCH FOR  
FOSTERING AN INNOVATION  
CULTURE IN THE ARAB REGION  
Vasarely Room (ground floor), Library of  
the Hungarian Academy of Sciences

13:30 - 15:45

INVITATIONAL SEMINAR:  
INTERNATIONAL COOPERATION IN  
SCIENCE ADVICE PRACTICES  
Invitation only by INGSA / SciCom  
- Making Sense of Science  
Council Room of the Presidium (Room B)

14:00 - 17:00

ERC SIDE EVENT ON WIDENING  
EUROPEAN PARTICIPATION  
Reading Room (Room D)

14:00 - 17:00

MTA/IPBES SIDE EVENT ON  
IMPROVING HARMONY BETWEEN  
PEOPLE AND NATURE THROUGH  
LINKING SCIENCE AND POLICY  
Conference Room (2nd floor), Library of  
the Hungarian Academy of Sciences

15:00 - 16:30

ROLE OF SCIENCE IN  
ADDRESSING CHALLENGES  
OF GLOBAL MIGRATION  
Ceremonial Hall (Room A)

16:00 - 17:45

FORUM OF GLOBAL FORA  
RECEPTION: WHERE SCIENCE  
CONFERENCES MEET  
By invitation only  
Academy Club

## DAY 1 – THURSDAY, NOVEMBER 5, 2015

13:00-15:00

Science Diplomacy in  
Action (UNESCO)  
Council Room of the Presidium (Room B)

## WELCOME

As President of the Hungarian Academy of Sciences, host of the 7th World Science Forum 2015 under the theme of 'The Enabling Power of Science', it gives me great pleasure to warmly welcome you back to Budapest after our 6th WSF in Rio and before we travel to Jordan for our 8th edition in 2017.

We have certainly come a long way since our first conference in 2003. Today, WSF is recognised as a very open platform, helping ignite important conversations about science, while perhaps being the most global and relevant of the large generalist conferences with delegates from over 100 countries and speakers from over 50. This is no easy feat, but we do everything possible to make everyone's science welcome and to give every delegate a voice.



As a group, you are the stakeholders, power-brokers and consumers of knowledge. Representing the worlds of research, business, innovation, policy-making, media, interest groups and society at large, you have come to Budapest to feel the pulse of what's happening right now and to consolidate old ties while establishing new ones. This intense engagement is the lifeblood of WSF. Profit from it.

This event would not be possible without the ongoing commitment of our five partner organisations who share a common vision of building this biennial WSF series into a meeting point of

real significance. Allow me to take this opportunity to acknowledge the United Nations Educational Scientific and Cultural Organization (UNESCO), the International Council for Science (ICSU), the American Association for the Advancement of Science (AAAS), the World Academy of Sciences (TWAS), and the European Academies Science Advisory Council (EASAC). As you meet their leaders and staff across this event, please, join me in saluting their success and track-record since this meeting's inception.

When we sat down to plan for WSF 2015, it struck us that 'The Enabling Power of Science' reflected well our shared view that we need here this week to tackle head-on how best to grasp the enormous potential of science. It is only by accentuating these positives, when all too often we risk focusing on the negatives, can we truly help mitigate further degradation of the Earth's ecosystem. In addition, this potential must be shared as a common good.

With this in mind, we have put out a rallying call to top-level speakers from all corners of the globe to offer you six Plenary Sessions backed up by nine Thematic Sessions. There is nowhere better to be than in Budapest this week to gain the latest insights into our global opportunities and challenges around climate change, renewable energies, disaster risk reduction, building resilience, establishing fit-for-purpose global health policies or gauging best practices and pitfalls in science governance on all continents, especially Africa. On top of such fundamental issues, we will present 'hot science' from brain research to harm reduction or the physics connected with the International Year of Light of 2015.

This diverse group will present such themes from multiple perspectives, as the views and experiences of developing countries and those in transition, of young and established

researchers, of the suppliers and recipients of scientific advice, or the lay public and outstanding scientists collide.

As a first, we have also invited in world class media moderators and scientific commentators to help foster broader debates, while facilitating science journalists from all over the world. We have assisted a number of pre-conference, high-level meetings at the Academy of established and emerging groups helping keep the wheels of our global scientific enterprise turning. Across the one-hundred talks on offer, there is certainly food for thought for everybody. Please do not be shy in making your voices heard.

But even a science gathering must have its lighter moments. Beyond this thematic programme, I have the pleasure of inviting you to enjoy a series of rich, social and cultural activities. I must extend our deepest gratitude to the President of the National Research, Development and Innovation Office of Hungary and the Mayor of the City of Budapest for hosting these events.

Finally, I wish you a pleasant stay in Budapest, one of Europe's great cities, and also that you get to learn something new about the many activities of our Academy and its 2500 researchers.

László Lovász  
President of World Science Forum  
President of the Hungarian Academy of Sciences

## PROGRAMME



## OPENING DAY

WEDNESDAY  
NOVEMBER 4, 2015

**18:00-19:00**

### OPENING CEREMONY

László Lovász, President of the Hungarian Academy of Sciences and President of World Science Forum  
Ban Ki-Moon, Secretary-General of the United Nations (message presented by Flavia Schlegel)  
Tibor Navracsics, EU Commissioner for Education, Culture, Youth and Sport  
Flavia Schlegel, Assistant Director-General for Natural Sciences, UNESCO  
Gordon McBean, President, ICSU  
Rush D. Holt, CEO, AAAS  
H.E. Viktor Orbán, Prime Minister of Hungary

**19:00-19:05**

### VIDEO MESSAGE FROM THE SOUTH POLE

**19:05-19:30**

### UNESCO PRIZE CEREMONIES

UNESCO Kalinga Prize presented by Flavia Schlegel, Assistant Director-General for Natural Sciences, UNESCO  
UNESCO Sultan Qaboos Prize for Environmental Preservation presented by Flavia Schlegel, Assistant Director-General for Natural Sciences, UNESCO and Madiha Al Shaibani, Minister of Education, Oman

**19:30-20:00 CONCERT**

Felix Lajko and his band

**20:00- OPENING RECEPTION**

## DAY 1

THURSDAY  
NOVEMBER 5, 2015

**09:30-11:00**

### PLENARY SESSION I: "SUSTAINABILITY CHECK 2015"

**Moderated by:** Matt McGrath, Environment Correspondent, BBC News  
Jacqueline McGlade, Chief Scientist, United Nations Environment Programme  
Uri Shamir, Chair, Technical Advisory Committee, United Nations World Water Assessment Program  
Bjorn Lomborg, Director, Copenhagen Consensus Center

**11:00-11:30**

### COFFEE BREAK

**11:30-13:00**

### PLENARY SESSION II: "SCIENCE ENGAGEMENT: COMMUNICATING WITH SOCIETY"

**Moderated by:** Philip Campbell, Editor-in-Chief, Nature and the Nature-branded publications  
Günter M. Ziegler, Professor, Freie Universität Berlin  
Dame Julia Higgins, former Vice President and Foreign Secretary of the Royal Society  
Yee Cheong Lee, Chairman of Governing Board, International Science, Technology and Innovation Centre for South-South Cooperation under the auspices of UNESCO (ISTIC)  
Rana Dajani, Associate Professor, Hashemite University, Jordan, Visiting Professor, Yale Stem Cell Center and University of Cambridge

DAY 0

DAY 1

**13:00-15:00**  
**LUNCH BREAK**

**15:00-16:30**  
**PLENARY SESSION III:**  
**“CONFIDENCE IN SCIENCE”**

**Moderated by:** Julian Kinderlerer, President, European Group on Ethics in Science & New Technologies  
Emilio Lora-Tamayo, President of the Spanish National Research Council (CSIC), Vice-President of Science Europe  
Geoffrey Boulton, Senior Honorary Professorial Fellow, University of Edinburgh, Fellow of the Royal Society  
Sir John Burn, Professor of Clinical Genetics, Newcastle University, non-executive director of NHS England  
Snežana Krstić, Independent researcher and consultant Chair of Marie Curie Alumni Association  
Huanming Yang, Professor & Chairman, Beijing Genomics Institute, Shenzhen

**16:30-17:00**  
**COFFEE BREAK**

## PARALLEL THEMATIC SESSIONS I.

**17:00-18:30**  
**PARALLEL THEMATIC SESSION I. A:**  
**“SCIENCE FOR PEACE”**

**Organised by:** UNESCO, CERN, SESAME  
**Venue:** Reading Room, Hungarian Academy of Sciences  
**Moderated by:** Maciej Nalecz, Director, Division of Science policy and Capacity Building, UNESCO  
Sir Christopher Llewellyn Smith, Former DG of CERN, former Chair of ITER Project, President of SESAME Council  
Miklós Réthelyi, President, Hungarian National Commission for UNESCO

Zehra Sayers, Sabanci University, Faculty of Engineering and Natural Sciences  
Herwig Schopper, Former DG of CERN  
Vaughan C Turekian, Science and Technology Adviser to the U.S. Secretary of State

**17:00-18:30**  
**PARALLEL THEMATIC SESSION I. B:**  
**“MAPPING THE BRAIN,**  
**UNLOCKING THE MIND”**

**Organised by:** Hungarian Academy of Sciences  
**Venue:** Large Lecture Hall, Hungarian Academy of Sciences  
**Moderated by:** Mary G. Baker, Immediate Past President, European Federation of Neurological Associations  
Tamás Freund, Director, Institute of Experimental Medicine, Hungarian Academy of Sciences  
Sean Hill, Co-Director of the Blue Brain Project, Co-Director of Neuroinformatics, Human Brain Project  
Wayne C. Drevets, Scientific Vice President at Johnson & Johnson, Inc.  
Andres M. Lozano, Senior Scientist, University Health Network, Toronto Western Research Institute

**17:00-18:30**  
**PARALLEL THEMATIC SESSION I. C:**  
**“HOW TO ENABLE SCIENCE THROUGH**  
**PARLIAMENTARY GOVERNANCE”**

**Organised by:** UNESCO and ISESCO  
**Venue:** Ceremonial Hall, Hungarian Academy of Sciences



## DAY 2

FRIDAY,  
NOVEMBER 6, 2015

09:30-11:00

### PLENARY SESSION IV: "SCIENCE IN THE INNOVATION ECOSYSTEM"

**Moderated by:** Clive Cookson, Science Editor, Financial Times  
Hiroshi Amano, Professor, Nobel Prize Winner, Nagoya University  
Axel Flaig, Head of Research & Technology, Airbus, France  
Anette Kolmos, Professor, Aalborg Centre of Problem-based Learning in Engineering Science and Sustainability under the auspices of UNESCO

Hayat Sindi, Founder and CEO of i2 Institute for imagination and ingenuity; member of the Advisory Board of the UN Secretary-General; UNESCO Goodwill Ambassador for science education in the Middle East; member of the consultative assembly of Saudi Arabia

11:00-11:30

### COFFEE BREAK

11:30-13:00

### PLENARY SESSION V: "CHALLENGES IN GLOBAL COOPERATION: PRACTICES AND PITFALLS"

**Moderated by:** Alan I. Leshner, CEO Emeritus, AAAS  
**Introduction:** H.E. Sorena Sattari, Vice-President for Science and Technology, Islamic Republic of Iran

#### Speakers:

Aldo Malavasi, IAEA Deputy Secretary General, Head of Department of Nuclear Sciences and Applications  
Gordon McBean, President, ICSU  
János Pásztor, Assistant Secretary-General on Climate Change, United Nations

**Moderated by:** Hossam Badrawi, Chairman Nile Badrawi Foundation for Education & Development, former Chairman of the Committee on Education and Scientific Research, Parliament of Egypt  
Ernesto Fernandez Polcuch, Senior Programme Specialist Natural Sciences, UNESCO  
Aicha Bammoun, Programme Specialist, Science Directorate, IESCO  
Paul Rübig, Chair, European Parliament's Science and Technology Options Assessment (STOA)  
Liliya Hrynevych, Chairperson, Committee on Science and Education, Parliament of Ukraine  
Jesus Hurtado, Member of the Commission on Science, Innovation and Technology, Congress of the Republic Peru  
Ninlawan Petcharaburanin, Advisor for the Committee on Science Technology National Assembly, Thailand  
Rana Dajani, Associate Professor, Hashemite University, Jordan; Visiting Professor, Yale Stem Cell Center and University of Cambridge

19:30-22:00  
RECEPTION

**Venue:** Bálna Cultural Centre  
Year of Light event  
Concert by Nikolett Szőke

## PARALLEL THEMATIC SESSIONS II.

14:30-16:00

### PARALLEL THEMATIC SESSION II. A: “FIT FOR PURPOSE GLOBAL HEALTH POLICIES”

**Organised by:** UNESCO, Hungarian Academy of Sciences

**Venue:** Ceremonial Hall, Hungarian Academy of Sciences

**Moderated by:** Dominique Leglu, Editor-in-chief of Sciences et Avenir

Wilson Compton, Deputy Director, National Institute on Drug Abuse

Jean-Paul Gonzalez, Senior Expert for ID & BSS, at METABIOTA Inc. USA

Michel Kazatchkine, UN SG's Special Envoy for AIDS, Executive Director of the Global Fund to fight AIDS, Tuberculosis and Malaria (2007-2012)

György Thaler, Development Director, Gedeon Richter Plc

Fook Kay Lee, Chief Science and Technology Officer, Ministry of Home Affairs, Singapore

Presenter for Dr Fook Kay Lee: Michelle Yap, Senior Assistant Director, Singapore Government, Ministry of Home Affairs, S&T Assessment Taskforce, Office of the Chief Science and Technology Officer

Thomas Hartung, Toxicologist of Johns Hopkins Bloomberg School of Public Health

14:30-16:00

### PARALLEL THEMATIC SESSION II. B: “BUILDING RESILIENCE IN A CHANGING WORLD”

**Organised by:** ICSU, JRC

**Venue:** Large Lecture Hall, Hungarian Academy of Sciences

**Moderated by:** Heide Hackmann, Executive Director, International Council for Science (ICSU)

**Introductory presentation and remarks:** Gordon McBean, President of the International Council for Science (ICSU)

**Panellists:** Stephan Lechner, Director of the Institute for the Protection and Security of the Citizen (IPSC), DG JRC, European Commission

Eva Alisic, Co-Chair, Global Young Academy

Virginia Murray, Vice-chair UNISDR Scientific and Technical Advisory Group (STAG), Chair of the S&T Organising Committee for the UNISDR Science and Technology Conference on the implementation of the Sendai Framework for Disaster Risk Reduction 2015-2030

**Closing remarks:** Vladimír Šucha, Director General of DG JRC, European Commission

14:30-16:00

### PARALLEL THEMATIC SESSION II. C: “INTERNATIONAL YEAR OF LIGHT”

**Organised by:** UNESCO, Hungarian Academy of Sciences

**Venue:** Reading Room, Hungarian Academy of Sciences

**Moderated by:** Jean-Paul Ngome Abiaga, Assistant Programme Specialist, International Basic Sciences Programme, UNESCO

John Dudley, Chairman, International Year of Light Steering Committee

Naomi J Halas, Founding Director of Laboratory for Nanophotonics, Rice University

Claudia Mignone, Astrophysicist, Science Writer and Communicator, Amsterdam

Lecture of Wolfgang Sandner, Director General, ELI-DG International Association, presented by John Dudley

**Concluding remarks:** Maciej Nalecz, Director, Division of Science Policy and Capacity Building, UNESCO

## PARALLEL THEMATIC SESSIONS III.

**16:30-18:00**

### PARALLEL THEMATIC SESSION III. A:

#### “RENEWABLE ENERGY FOR GLOBAL SUSTAINABILITY”

**Organised by:** UNESCO

**Venue:** Ceremonial Hall, Hungarian Academy of Sciences

**Moderated by:** Osman Benchikh, Chief of Section, Innovation and Capacity Building in Science and Engineering, Natural Sciences Sector, UNESCO

Dominique Campana, Director of International Affairs, ADEME

Cipriano Marín, Secretary General of the UNESCO Centre in the Canary Islands, UNESCOCAN

Said Mouline, Chief Executive Officer, ADEREE

Yury Posysaev, Executive Director, International Sustainable Energy Development Centre under the auspices of UNESCO

**16:30-18:00**

### PARALLEL THEMATIC SESSION III. B:

#### “SCIENCE AND TECHNOLOGY FOR DISASTER RISK REDUCTION”

**Organised by:** Science Council of Japan and the Royal Society, with advice from UNESCO SC/EES/EGR

**Venue:** Large Lecture Hall, Hungarian Academy of Sciences

**Moderated by:** Toshio Koike, Executive Director of Earth Observation Data and Information Fusion Research Initiative, University of Tokyo

Takashi Onishi, President, Science Council Japan

Hugo Romero, Associate Professor, University of Chile

Paul Bates, Head of the School of Geographical Sciences, University of Bristol, UK, Royal Society working group member

Susan Cutter, Distinguished Professor & Director of the Hazards & Vulnerability Research Institute, University of South Carolina (online connection)

**16:30-18:00**

### PARALLEL THEMATIC SESSION III. C:

#### “SCIENCE GOVERNANCE IN AFRICA: CHALLENGES AND OPPORTUNITIES”

**Organised by:** UNESCO

**Venue:** Reading Room, Hungarian Academy of Sciences

**Moderated by:** Mohamed H. A. Hassan, Co-Chair of IAP, the Global Network of Science Academies

Romain Murenzi, Executive Director, The World Academy of Sciences (TWAS)

Francisca Okeke, Professor, University of Nigeria

Almamy Konte, Senior Expert in Innovation Policy, African Observatory of Science, Technology and Innovation (AOSTI)

Henry Roman, Director, Department of Science and Technology, South Africa; Co-Chair of World Association of Young Scientists (WAYS)

**19:00-**

### RECEPTION

**Venue:** Várkert Bazar  
Innovation in Hungary



## DAY 3

SATURDAY,  
NOVEMBER 7, 2015

*Venue: The House of Parliament*

**09:30-10:15**

### OPENING ADDRESSES

- H.E. János Áder, President of Hungary
- H.M. King Abdullah II ibn Al-Hussein, King of the Hashemite Kingdom of Jordan (video message)
- H.E. Irina Bokova, Director General, UNESCO

**10:15-11:15**

### PLENARY SESSION VI:

#### “PARLIAMENTARY SESSION: SCIENCE IN POLICY MAKING” (PART 1)

- Moderated by:** Sir Peter Gluckman, Chief Scientific Advisor to the Prime Minister of New Zealand
- Patrick Cunningham, Professor of Animal Genetics, Trinity College, University of Dublin, Ireland, Former Chief Scientific Adviser to the Irish Government
- Zakri Abdul Hamid, Science Adviser to the Prime Minister of Malaysia; Chair, IPBES
- Vladimír Šucha, Director-General of the Joint Research Centre of the European Commission
- Gordon McBean, President, ICSU

**11:15-11:45**

### COFFEE BREAK

**11:45-12:45**

### PLENARY SESSION VI:

#### “PARLIAMENTARY SESSION: SCIENCE IN POLICY MAKING” (PART 2)

- Moderated by:** Sir Peter Gluckman, Chief Scientific Advisor to the Prime Minister of New Zealand
- H.E. Naledi Pandor, Minister of Science and Technology, South Africa
- Koji Omi, Founder and Chairman, STS Forum
- Ene Ergma, former President of the Riigikogu (Estonian Parliament)
- Rush D Holt, CEO, AAAS

**12:45-13:00**

### PRESENTATION OF THE UNESCO

#### SCIENCE REPORT

- UNESCO Science Report presented by: Flavia Schlegel, Assistant Director-General for Natural Sciences, UNESCO

**13:00-13:45**

### CLOSING CEREMONY AND ENDORSEMENT OF THE DECLARATION

- László Lovász, President of the Hungarian Academy of Sciences and President of World Science Forum
- Presentation and endorsement of the Declaration
- István Jgyártó, Minister of State for Cultural and Science Diplomacy
- H.R.H. Princess Sumaya bint El Hassan, President, Royal Scientific Society, Jordan

## DAY -1

TUESDAY  
NOVEMBER 3, 2015

**09:00-17:00**

**European Conference for Science Journalists 2015  
(European Science Journalists Association)**

**Venue:** Ceremonial Hall, Hungarian Academy of Sciences

**10:30-13:00**

**“Microbes and Society”, scientific session**

**Venue:** Large Lecture Hall, Hungarian Academy of Sciences

10.30-11.00 Stackedbradt, Erko (Professor, Leibnitz Institute, DSMZ-German Collection of Microorganisms and Cell Cultures; Coordinator, MIRRI-Microbial Resource Research Infrastructure, Braunschweig, Germany): Scientists and (their) microbial resources: responsibilities revisited

11.00- 11.30 Balázs, Ervin (Member of HAS, Professor, Director-general, Centre for Agricultural Research, Hungarian Academy of Science, Martonvásár, Hungary): Microbes serving agri-food industry

11.30-12.00 Coffee break

12.00-12.30 Nagy, Károly (Professor, Institute of Medical Microbiology, Semmelweis University, Budapest, Hungary): How science supports management of emerging infections

12.30-13.00 Rajnavölgyi, Éva (Professor, Department of Immunology, University of Debrecen, Debrecen, Hungary): Human life in invisible company - The significance of preventive vaccination

## PRE-CONFERENCE SYMPOSIA AND SIDE EVENTS

**15:00-17:30**

**Academia Europea Hungarian members meeting**

**Venue:** Reading Room, Hungarian Academy of Sciences

15:00-15:05: Welcome speech by László Lovász, President of the Hungarian Academy of Sciences

15:05-15:25: Sierd Cloetingh, President of Academia Europea (AE), Vice President of the European Research Council (ERC) presents AE and ERC

15:25-15:40: Presentation of Lynn Kamberlin, Chair of Young Academy of Europe (YAE) in 2014-2015 on YAE

15:40-15:50: Balázs Gulyás, Professor of Translational Medicine at Imperial College - NTU Lee Kong Chian School of Medicine, Singapore and Professor at the Section for Psychiatry, Department of Clinical Neuroscience, Karolinska Institutet on the 2017 AE-ALLEA Annual Meeting to be held in Budapest

15:50-16:20: László Csiba, Professor and Chairman of the Department of Neurology at the University of Debrecen (AE: 2015)

16:20-16:50: László Acsády, expert on neuroscience, Doctor of the Hungarian Academy of Sciences: Of sleep and wakefulness

16:50-17:00: Q&A

17:00-18:00: Reception

## OPENING DAY

WEDNESDAY  
NOVEMBER 4, 2015

09:00 - 10:30

### UNESCO SIDE EVENT ON CAMPUSAFRICA: CULTURE, SCIENCE AND TECHNOLOGY AT THE SERVICE OF AFRICAN DEVELOPMENT

**Venue:** Conference Room (2nd floor), Library of the Hungarian Academy of Sciences

H.E. Antonio Correia e Silva, Minister for Higher Education, Science and Innovation, Government of the Republic of Cape Verde  
Basilio Valladares Hernández, Co-director of CampusAFRICA, Director of the Canarian Institute of Tropical Diseases and Public Health, University of La Laguna, Tenerife  
José S. Gómez Soli o, Co-director of CampusAFRICA, Centre for African Studies, University of La una, Tenerife  
Emma Carmelo Pascual, Senior scientist, Canarian Institute of Tropical Diseases and Public Health, University of La Laguna, Tenerife

09:00 - 10:30

### UNESCO SIDE EVENT ON KNOWLEDGE BROKERING FOR A BETTER CONNECTION BETWEEN SCIENCE, POLICY AND PRACTICE IN COMPLEX POLICY PROBLEMS

**Venue:** Dome Hall, Hungarian Academy of Sciences

Adriaan Slob, Senior Researcher, TNO Strategy and Policy  
Tara Geerdink, Senior Researcher, TNO Strategy and Policy  
Piotr Magnuszewski, Scientific Director, Centre for Systems Solutions  
Dejan Komatina, Secretary, International Sava River Basin Commission  
Fred Heuer, Former Director General in the Dutch Ministry of Transport, Water and infrastructure  
Philippe Pypaert, Programme Specialist, UNESCO Venice Office

Samo Grošelj, Deputy Secretary for Protection of Waters and Aquatic Eco-system, International Sava River Basin Commission

09:00 - 10:30

### JRC SIDE EVENT ON SCIENCE IN FLUX: HOW SCIENCE SUPPORTS THE MANAGEMENT OF TRANS-NATIONAL RIVER BASINS

**Venue:** Large Lecture Hall, Hungarian Academy of Sciences

Ivan Zavadsky, Executive Secretary of the International Commission for the Protection of the Danube River (ICPDR)

Henrik Larsen, Senior Water Resources Management Specialist at DHI Water & Environment, former Chief Technical Advisor for the Environment Programme of the Mekong River Commission  
Marina Djemaes, Executive Operations Officer, EcoPeace Middle East Amman office

Aram Ngom Ndiaye, Senegal River Basin Development Authority (OMVS)  
Cesar Carmona Moreno, Senior Expert, Institute for Environment and Sustainability, Joint Research Centre, European Commission

09:30 - 11:00

### IEEE SIDE EVENT ON NEW PARADIGMS FOR INTEGRATING SUSTAINABLE DEVELOPMENT INTO SCIENCE AND ENGINEERING EDUCATION THROUGH IEEE EDUCATIONAL ACTIVITIES

**Venue:** Vasarely Room (ground floor), Library of the Hungarian Academy of Sciences

Doug Gorham, Managing Director, IEEE Educational Activities: IEEE's role in building capacity for Sustainable Development in Engineering Education

Tariq Durrani, 2010-2011 Vice President, IEEE Educational Activities Board: Integrating 'sustainable development' as a graduate attribute – using engineering curricula as a model

Sohaib Qamar, IEEE Region 8 Pre-University Activities Coordinator: IEEE's Work in Building a Pipeline of Future Engineers and Technologists



**11:00 - 12:30**

## **WSF STEERING COMMITTEE MEETING**

**By invitation only**

**Venue:** Bolyai Room, Hungarian Academy of Sciences

**11:30 - 13:00**

## **UNESCO SIDE EVENT ON APPLYING NEW HUMAN GENOMICS TECHNIQUES AND MIDDLE INCOME COUNTRIES**

**Venue:** Conference Room (2nd floor), Library of the Hungarian Academy of Sciences

**Moderator:** Helen Merrideth Robinson, International Coordinating Office; Human Variome Project International Ltd. Melbourne, Australia  
**Panelists:** Professor Zilfalil Bin Alwi, Hospital Universiti Sains Malaysia (USM), Kubang Kerian, Malaysia

Doctor Carsten Lederer, Cyprus School of Molecular Medicine (CSMM), Cyprus Institute of Neurology and Genetics (CING), Nicosia, Cyprus  
Professor Jacques Elion, Paris Diderot Medical School, Paris, France

**11:30 - 12:30**

## **INTERNATIONAL NETWORK FOR GOVERNMENT SCIENCE ADVICE (INGSA) DEVELOPMENT GROUP MEETING**

**By invitation only** (INGSA, SciCom - Making Sense of Science)

**Venue:** Council Room of the Presidium, Hungarian Academy of Sciences

**Chair:** Sir Peter Gluckman

**Development Group:** John Boright, Jean-Claude Burgelman, Ottmar Edenhofer, Mr Aidan Gilligan, Heide Hackmann, Yuko Harayama, Mohamed Hassan, Mr Johannes Klumpers, Khotso Mokhele, Martin Kowarsch, Peter Liss, David Mair, Jacqueline McGlade, Mu Rongping, Romain Murenzi, Carlos Nobre, Flavia Schlegel, Carthage Smith, Vaughan Turekian, James Wilsdon, Zakri Hamid

**13:00 - 17:00**

## **IAP/WAYS/ICORSA/GYA JOINT SIDE EVENT ON SCOPING THE FUTURE: VIEWS AND IDEAS OF YOUNG SCIENTISTS TO TACKLE GLOBAL CHALLENGES**

**Venue:** Large Lecture Hall, Hungarian Academy of Sciences

This closed session is organised by the InterAcademy Partnership; Global Young Academy (GYA); World Association of Young Scientists (WAYS); International Consortium of Research Staff Associations (ICORSA)

**Participants:** 50 selected young scientists nominated by national science academies and the Global Young Academy, WAYS and ICORSA.

**By invitation only.**

*The closing plenary from 16.30 - 17.00 hrs is OPEN to WSF delegates. Do join us for the discussions.*

**13:30 - 16:30**

## **UNESCO/AAS/ACADEMIA EUROPAEA/ISTIC JOINT SIDE EVENT ON GALVANIZING SCIENCE EDUCATION & RESEARCH FOR FOSTERING AN INNOVATION CULTURE IN THE ARAB REGION**

**Venue:** Vasarely Room (ground floor), Library of the Hungarian Academy of Sciences

H.E. Adnan Badran, Jordan's Former Prime Minister & Former Minister of Defense, President of Petra University

Hossam Badrawi, physician, President of the Badrawi Foundation for Education and Development, and the founder and the honorary chairman of the Egyptian Council of Competitiveness (ENCC)

Yee Cheong Lee, Chairman of Governing Board, International Science, Technology and Innovation Centre for South-South Cooperation under the auspices of UNESCO (ISTIC)

Helene de Rode, Professor at the UCL-Mons

Dr. Ghaith H. Fariz, Director of UNESCO Regional Bureau for

Sciences in the Arab States; Cluster Office for Egypt, Sudan, and Libya; and UNESCO Representative to Egypt  
 Omar Fassi-Fehri, Permanent Secretary of the Hassan II Academy of Science and Technology, Morocco  
 Nazar M. Hassan, UNESCO Senior Specialist for Science and Technology for the Arab States; Director of UNESCO NECTAR Network  
 H.E. Prof. Jo Ritzen, Honorary Professor of Maastricht University Chair and Founder of Empower European Universities and Initiator of the Vibrant Europe Forum  
 Mahmoud M. Sakr, President of the Egyptian Academy of Scientific Research and Technology (ASRT)  
 Professor Peter Tindemans, Secretary General, EuroScience

**13:30 - 15:45**

## INVITATIONAL SEMINAR: INTERNATIONAL COOPERATION IN SCIENCE ADVICE PRACTICES

*Invitation only by INGSa / SciCom - Making Sense of Science*

**Venue:** Council Room of the Presidium, Hungarian Academy of Sciences

**14:00 - 17:00**

## ERC SIDE EVENT ON WIDENING EUROPEAN PARTICIPATION

13:30 Registration

14:00 Welcome by the Host László Lovász, President, Hungarian Academy of Sciences

14:10 Opening: The ERC's quest to support excellent researchers all over Europe Eva Kondorosí, Chair, ERC Scientific Council WG on widening European participation

14:25 Hungary's participation in ERC calls – a success story József Pálinkás, President, National Research, Development and Innovation Office of Hungary

- 14:45 Preparing an ERC application and the evaluation process Alejandro Martin-Hobdý, Head of Call Coordination & Follow-up, ERC Executive Agency Presentation followed by Q&A session
- 15:15 Testimony of an ERC grantee based in Hungary Csaba Pál, Biological Research Centre of the Hungarian Academy of Sciences, ERC StG & CoG
- 15:30 Spreading research excellence in Europe: Perspectives of Academia Europaea Sierd Cloetingh, President Academia Europaea & Vice-President of the ERC Scientific Council
- 15:40 The ERC: Supporting excellent young scientists across Europe Lynn Kamerlin, Vice-Chair Young Academy of Europe Board, ERC StG
- 16:00 Panel discussion: Perspectives on widening European participation in ERC competitions moderated by: Jean-Pierre Bourguignon, President, European Research Council with panellists: Eva Kondorosí, Kostadin Kostadinov, József Pálinkás, Jozef Masarik, Jerzy Duszyński, Ionel Vlad, Pavol Šajgalík, Karel Aím, Konstantin Hadjiivanov, László Kontler, Ionut Epurescu-Pascovici, Monika Dietl Followed by discussion with participants
- 17:00 Closing reception: Krudy Hall

**14:00 - 17:00**

## MTA/IPBES SIDE EVENT ON IMPROVING HARMONY BETWEEN PEOPLE AND NATURE THROUGH LINKING SCIENCE AND POLICY

**Venue:** Conference Room (2nd floor), Library of the Hungarian Academy of Sciences

Opening: Csaba Kőrösi (Director for Environmental Sustainability, Office of the President of the Republic, Hungary)

Part A. IPBES in the Sustainable Development Agenda:

Keynotes by Thomas Koetz (IPBES Secretariat) and Ivar Baste (IPBES Bureau)

followed by a panel discussion with Csaba Kőrösi and Jacqueline McGlade (UNEP chief scientist).



## Part B. IPBES Work Programme Highlights:

Keynotes by Markus Fischer (Co-chair for IPBES Europe and Central Asia Regional Assessment) and György Pataki (IPBES MEP member and Co-chair of the IPBES expert group on values and valuation) followed by a panel discussion with Zsolt Molnár (IPBES Indigenous and Local Knowledge Task Force) and András Attila Takács (EU Mapping and Assessment of Ecosystems and their Services working group).

## Closing remarks by

József Pálinskás (President, National Research, Development and Innovation Office, Hungary)

The event is hosted and facilitated by András Báldi (General Director, Center for Ecological Research, Hungarian Academy of Sciences, former member of the IPBES MEP).

**15:00 - 16:30**

## ROLE OF SCIENCE IN ADDRESSING CHALLENGES OF GLOBAL MIGRATION

**Venue:** Ceremonial Hall, Hungarian Academy of Sciences

**Welcoming remarks:** László Lovász, President, Hungarian Academy of Sciences

**Moderated by:** H.E. Katalin Bogyay, Ambassador, Permanent representative of Hungary to UN, New York

## Speakers:

Flavia Schlegel, Assistant Director-General for Natural Sciences, UNESCO

Vladimir Rakhmanin, Assistant Director-General and Regional Representative for Europe and Central Asia, FAO

Ádám Török, Secretary-General, Hungarian Academy of Sciences

H.R.H. Princess Sumaya bint El Hassan, President, Royal Scientific Society, Jordan

**16:00 - 17:45**

## FORUM OF GLOBAL FORA RECEPTION: WHERE SCIENCE CONFERENCES MEET

**Venue:** Academy Club, Hungarian Academy of Sciences

**Hosted by:** Prof. Luke Georgiou, Vice President Manchester University and Co-Champion of Euroscience Open Forum (ESOF) 2016 Manchester.

**Igniting conversations about:** Science Agora 2015 Tokyo; Science Forum South Africa 2015 Pretoria; AAAS 2016 Washington DC; ESOF 2016 Manchester; WSF 2017 Jordan.

## DAY 1

THURSDAY

NOVEMBER 5, 2015

**13:00-15:00**

## Science Diplomacy in Action (UNESCO)

**Venue:** Council Room of the Presidium, Hungarian Academy of Sciences

**Chair:** Maciej Nalecz, Director of the Division of Science Policy and Capacity Building, Natural Sciences Sector, UNESCO

**Moderator:** Leo Trembley, Seconded Expert, Division of Science Policy and Capacity Building, Natural Sciences Sector, UNESCO

**Speakers:** C. Malla Reddy, Associate Professor, Department of Chemical Sciences, Indian Institute of Science Education and Research (IISER) Kolkata

Ricardo Cabrera, Assistant Professor, Laboratorio de Bioquímica y Biología Molecular, Departamento de Biología, Facultad de Ciencias - Universidad de Chile

Prisca KOUAKOU, Docteur en Chimie des Matériaux Inorganiques, Université Félix Houphouët Boigny d'Abidjan, Côte d'Ivoire

**Rapporteur:** Mand Holford, Associate Professor - Chemical Biology Hunter College and CUNY-Graduate Center



## VENUES OF THE FORUM

### HUNGARIAN ACADEMY OF SCIENCES

The foundation of the Hungarian Academy of Sciences in 1825, is marked by the most generous gestures in Hungarian history. Count István Széchenyi offered one year's income of his estate for the purpose of establishing a Learned Society and his example of generosity was followed by other delegates to the National Assembly. The Hungarian Academy of Sciences is uniquely the only Academy in the world built up from public donations. The building of the Academy was one of the first Budapest edifices in Neo-Renaissance style yet it turned out to be the most mature and valuable example of its sort in Budapest. This harmonious building, richly ornamented both inside and outside has always been a distinctive feature of the cityscape.

### THE BÁLNA

Bálna is a commercial, cultural, entertainment and leisure centre. The building is a special sight, not to speak of the sight of the city from Bálna. The building itself combines architectural traits of several different eras. The historical brick building and the concrete structures typical of the last century are embraced by a computer designed metal-glass shell. The architect who designed the building, Kas Oosterhuis is one of the most well-known representatives of today's non-standard architecture. The outstanding feature of his style lies in the fact that his buildings also function as sculptures, i.e. cityscape

elements. Bálna also serves as home to Budapest Gallery, which exhibits Hungarian and foreign contemporary art.

### VÁRKERT BAZÁR (CASTLE GARDEN BAZAAR)

Várkert Bazár was built according to the plans of Miklós Ybl on the bank of the Danube as a border edifice for the royal gardens. Opened in 1883, this is one of the finest examples of Hungarian Neo-Renaissance architecture. Due to the low turnover, the original, commercial purpose booths of the bazaar were later converted into studios and art workshops. Many famous pieces of art were created here. Devastated by bombings in the Second World War, the former royal gardens were turned into the Buda Youth Park. However, following an accident in 1984, the legendary, cult place of the Socialist bloc was closed down. In 1987, the complex was inscribed on UNESCO's world heritage list. It then managed to hit the headlines again: it became included in the list of the 100 most endangered heritage sites of the world. Following a government decision and enjoying co-funding from the European Union and Hungary, the refurbishment and enlargement project was started in 2012 and successfully completed in 2014.

### HUNGARIAN PARLIAMENT BUILDING

The Parliament building is an outstanding landmark, stretching along the Pest embankment of the River Danube, the symbol of the capital and the country. It is the seat of the unicameral National Assembly, the legislative body of the Hungarian Republic. Opened in 1904, the

building was designed in neo-Gothic style to represent the thousand-year-old history of the nation with its vast size. On average, 1000 builders were working on the 268-metre-long structure at one time during the 19 years of its construction. Its central element is the 96-metre-high Dome, beneath it is a display of the Holy Crown, the orb and sceptre.

(Guided tours in foreign languages are available daily.)

## GENERAL INFORMATION

### SECURITY CONTROL

Participants must pass through security control at the entrance of the Hungarian Academy of Sciences and at the Hungarian Parliament.

To gain admission in due time, please allow one hour before the event.

Take note: passport or identity card is required to enter.

### INTERNET ACCESS

Participants of the Forum are provided with free internet access in the building of the Hungarian Academy of Sciences. To connect to the wireless network please use the following

ssid: **wsf2015**

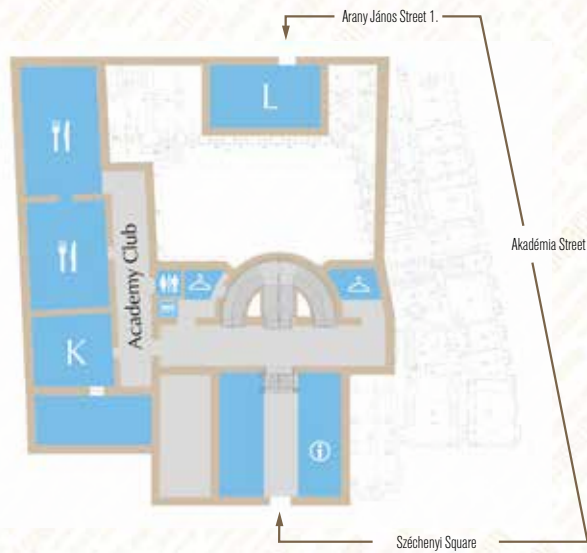
password: **HunAcademy**

### FORUM WEBSITE

The website of the Forum (<http://www.sciforum.hu>), which has served as an important tool in the preparatory phase of the World Science Forum, will be updated after the Forum with further presentations, conclusions and proposals for the future.

### LIVE BROADCAST

All sessions of the Forum, both plenary and thematic sessions, will be streamed to the [www.sciforum.hu](http://www.sciforum.hu) website for the wider public. World Science Forum operates a remarkable video archive, available on the Forum website, where you can watch all sessions of previous Fora.



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|---|-------------------------------|---|--------------------------------------|
| A | Ceremonial Hall               | H | Press Room                           |
| B | Council Room of the Presidium | I | Press Conference Room                |
| C | WSF Secretariat               | J | Large Lecture Hall                   |
| D | Reading Room                  | K | Dome Hall – Year of Light Exhibition |
| E | Concert Room                  | L | Library                              |
| F | Bolyai Room                   | 🍴 | Academy Club                         |
| G | Szentágothai Room             |   |                                      |

