

# World Conference on Science and Art for Sustainability

September 22–24, 2025, Belgrade, Serbia



## PROGRAM



2024 • 2033

**International Decade of Sciences for Sustainable Development**

**Host:**



**Co-Hosts:**



**Other Organizing Institutions:**



## Science and Art for Sustainability

On August 25, 2023, **the United Nations (UN) General Assembly** proclaimed *the International Decade of Sciences for Sustainable Development (IDSSD)*, from 2024 to 2033. The idea of IDSSD was launched by **the International Union of Pure and Applied Physics (IUPAP)**, **the World Academy of Art and Science (WAAS)**, and **The Club of Rome (CoR)** in September 2022 in Belgrade, Serbia, within *the World Conference on Basic Sciences for Sustainable Development*, as the flagship event for Europe within the International Year of Basic Sciences for Sustainable Development (IYBSSD). The UN General Assembly gave the task to prepare and implement the overall program of IDSSD to the **UN Educational, Scientific and Cultural Organization (UNESCO)**.

The integral goal of **IDSSD** is to significantly contribute to tracing the pathways towards regeneration and sustainability of nature and society as well as human security and peace. This should be done following **eight Human Security Dimensions (HSDs)**, specified by **the UN Development Programme (UNDP)** in January 1994 and September 2022, and **17 Sustainable Development Goals (SDGs)**, defined by the UN General Assembly in September 2015. These dimensions and goals are related to the existential problems and challenges facing the Earth and humanity today, which are: depletion of natural resources; climate change, pollution, and biodiversity loss; intercultural conflicts, forced migrations, and wars; human inequality and inequity. Today, it is clear that these problems have complex and multiple disciplinary character while the efforts of scientific communities worldwide are mostly limited to separated disciplines. In addition, the problems are interdependent and can mutually reinforce each other. Therefore, a systemic and multiple disciplinary approach in looking for and finding their solutions is necessary. However, the current state of affairs is such that serious concerns about the ability of humankind to carry out the SDGs and HSDs by 2030, as it was planned, are raised.

On April 16, 2024, **The Earth-Humanity Coalition (EHC)** was founded as an association of global, regional, and national scientific organizations with the task to prepare and implement, in close cooperation with UNESCO, various initiatives within the overall IDSSD program. IUPAP, WAAS, CoR, and **the UNESCO-MOST-BRIDGES Coalition** were among the founding Members of EHC. The first of these initiatives was **the EHC-WAAS Program of Sciences for Sustainable Development**, which had been prepared by WAAS. It currently includes two series of webinars, six world conferences, a number of journal articles and reports, and four platforms in science and technology for cooperation between **the Global North** and **the Global South**.

**The EHC-WAAS Program** is based on the conviction that acquiring knowledge along the chain of basic, applied, social, and humanistic disciplines by scientific and technological communities worldwide within the disciplinary boundaries must be supplemented with their transdisciplinary efforts, and that the realization of the resulting agendas must be going on in a well-coordinated way. This endeavor also includes local and national traditional knowledge and its interactions with contemporary science and technology generated knowledge. One of the main aims of the Program is to enable the establishment of a solid foundation for the advancements of innovation, technology, education, agriculture, and industry towards sustainable, secure, and peaceful development at the local, national, regional, and global scales. **Besides, in the Program, relations between science and art are underlined, as between two distinct but complementary methods of inquiry about nature, society, and human beings with the same aim – to unravel the sense of the universe and communicate their findings to others. The results of science, being objective, and the results of art, being subjective, should influence and enrich one another, and thus push farther the boundaries of a true and deep understanding of the universe.**

**The EHC-WAAS Program** should be applied worldwide, in both the Global North and the Global South, and in their cooperation following the principles of multilateralism, guaranteeing the respect of rights of every country in every domain, and the objective to make the Earth an equitably habitable planet that upholds well-being and justice for all.

It is well known that relationships between scientists and artists on the one side and policy-makers and all other science and art stakeholders in the public and private sectors on the other side are characterized by a lack of respect and trust. Therefore, **the EHC-WAAS Program** includes a strong request that novel ways of communication and cooperation of the two sides, based on sincere mutual respect and trust, must be developed and nurtured. The aim is to overcome the barriers that prevent these interactions as well as to effectively use the levers that stimulate them. This should lead to the evolution of these communications from the one-sided and

market-driven ones to a wide-participatory co-creation of approaches and agendas of **science, technology, art, and education** driven by the societally relevant problems and challenges. Besides, all three pillars of **science and art diplomacy**, being science and art for diplomacy, science and art in diplomacy, and diplomacy for science and art, should be continually used. These pillars cover the soft power of science and art to improve relations between countries even where official relations are strained or severed, the ways how science and art achievements help inform diplomatic objectives and foreign policy, and the ability of diplomacy to facilitate cooperation in science and art across borders, respectively.

***The World Conference on Science and Art for Sustainability***, to be held on September 22–24, 2025 in Belgrade, Serbia, will be the second conference within **the EHC-WAAS Program** and a flagship event within **IDSSD**. Its program is given below. **The aims of the Conference are: to listen to prominent individuals acting in different science and art disciplines and coming from different parts of the world, to induce fruitful interactions among them, and to deduce from all that some concrete conclusions on the contributions of science and art to sustainable, secure, and peaceful development to be presented to the interested policy-makers and other science and art stakeholders at the local, national, regional, and global scales.**

## Organizing Institutions

- o **Host:**
  - **Serbian Academy of Sciences and Arts (SASA)**
- o **Co-Hosts:**
  - **Alliance of National and International Science Organizations for the Belt and Road Regions (ANSO)**
  - **United Nations Educational, Scientific and Cultural Organization (UNESCO)**
- o **Other Institutions:**
  - **The Earth-Humanity Coalition (EHC)**
  - **World Academy of Art and Science (WAAS)**
  - **The Club of Rome (CoR)**
  - **Serbian Chapter of The Club of Rome (SC CoR)**
  - **UNESCO-MOST-BRIDGES Coalition (BRIDGES)**

## September 22, 2025, Monday, Day 0

14:00–18:00 **Early registration**, Boutique Hotel Museum, Belgrade

### INTRODUCTORY SESSION: INTERNATIONAL DECADE OF SCIENCES FOR SUSTAINABLE DEVELOPMENT, National Museum

18:30–18:50 **Nebojša Popović and the Terazije group**, Belgrade, Serbia: *Sound and motion* (music and dance happening)

19:00 –19:15 **Amal Kasry**, Chief of Section, Research Innovation and Engineering (RIE), Division of Science Policy and Basic Science (PBS), Natural Sciences Sector (SC), United Nations Educational, Scientific and Cultural Organization (UNESCO), Paris, France: *A Decade for Impact: Mobilizing Science and Art for a Sustainable Future*

19:15 –19:30 **Michel Spiro**, Chair, Steering Committee, The Earth-Humanity Coalition; Past President, International Union of Pure and Applied Physics (IUPAP): *The Earth-Humanity Coalition: All Sciences and All Knowledge for Equitable Well-Being on a Healthy Planet*

19:30 –19:45 **Janani Ramanathan**, Secretary General, World Academy of Art and Science (WAAS); Governing Council, UNESCO-MOST BRIDGES Coalition: *Transdisciplinary Education*

19:50–20:30 **Camerata Serbica**, Belgrade, Serbia, and **Belgrade Chamber Choir**, Serbia (music happening)

20:30–21:30 *Welcome reception*

## September 23, 2025, Tuesday, Day 1

8:30–9:00 **Registration**, Serbian Academy of Sciences and Arts

### OPENING SESSION, Serbian Academy of Sciences and Arts

9:00–9:10 **Words of welcome:**  
**Zoran Knežević**, President, Serbian Academy of Sciences and Arts

**Opening addresses:**  
9:10–9:25 **Sukit Limpijumnong**, President, National Science and Technology Development Agency, Pathum Thani, Thailand; President, Alliance of National and International Science Organizations for the Belt and Road Regions (ANSO), to be confirmed

9:25–9:40 **Hu Shaofeng**, Director, Division of Science Policy and Basic Science (PBS), Natural Sciences Sector (SC), United Nations Educational, Scientific and Cultural Organization (UNESCO), Paris, France

## SECTION 1: CONTRIBUTIONS OF BASIC AND APPLIED SCIENCES TO SUSTAINABILITY, Serbian Academy of Sciences and Arts

9:40–11:30 **SESSION 1.1**

### **Moderation:**

**Michel Spiro**, Chair, Steering Committee, The Earth-Humanity Coalition; Past President, International Union of Pure and Applied Physics (IUPAP)

### **Talks:**

**Borko Furht**, College of Engineering & Computer Science, Florida Atlantic University, Boca Raton, USA: *Big Data and Artificial Intelligence* (mathematics and computer science)

**Gian Francesco Giudice**, Head, Theoretical Physics Department, European Organization for Nuclear Research (CERN), Geneva, Switzerland: *CERN and the Role of Big Science in Society* (basic physics)

**Ugo Bardi**, National Interuniversity Consortium of Materials Science and Technology, University of Florence, Italy; The Club of Rome; World Academy of Art and Science (WAAS): *Not Just Global Warming: CO<sub>2</sub> as a Pollutant* (materials science)

**Aleksandr Bugay**, Director, Laboratory of Radiation Biology, Joint Institute for Nuclear Research (JINR), Dubna, Russia; Commission on Biological Physics, International Union of Pure and Applied Physics (IUPAP): *Radiation Induced Disorders in Human Brain in Interplanetary Missions* (biology)

### **Discussion**

11:30–12:00 *Coffee break*

12:00–13:50 **SESSION 1.2**

### **Moderation:**

**Goran Milašinović**, Director, Pacemaker Center, University Clinical Center of Serbia, Belgrade; President, Commission of Serbia for Cooperation with the United Nations Educational, Scientific and Cultural Organization (UNESCO)

### **Talks:**

**Lesley Green**, Director, Environmental Humanities South, Faculty of Humanities, University of Cape Town, South Africa; The Club of Rome: *Critical Zone Science as a Politics of Habitability* (biogeosciences)

**Zhou Detai**, Advanced Nuclear Energy Center, Institute of Modern Physics, Chinese Academy of Sciences, Lanzhou, China: *Control and Safety System of the Chinese initiative Accelerator Driven System (CiADS)* (electronic engineering)

**Jožef Čomor**, ELEX Commerce, Belgrade, Serbia: *Production of Cyclotron Radiopharmaceuticals* (physicochemical engineering)

**Andre Terzic**, Mayo Clinic, Rochester, Minnesota, USA: *Healthspan-Lifespan Gap: Global Challenge to Healthy Longevity* (medicine)

### **Discussion**

13:50–14:50 *Lunch break*

14:50–16:40	<b>SPECIAL SESSION 1: CONTRIBUTIONS OF SCIENCES TO SUSTAINABLE DEVELOPMENT OF THE BELT AND ROAD REGIONS</b>
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**Moderation:**

**Nebojša Lalić**, Secretary General, Serbian Academy of Sciences and Arts; Governing Board, Alliance of National and International Science Organizations for the Belt and Road Regions (ANSO)

**Talks:**

**Klaus Mainzer**, Senior Excellence Faculty, Technical University of Munich, Germany; Carl Friedrich von Weizsäcker Center, Eberhard Karls University of Tübingen, Germany; President, European Academy of Sciences and Arts (EASA): *An Alliance of National and International Science for Sustainability Needs Sustainable AI* (philosophy of science)

**Charalampos Baniotopoulos**, School of Engineering, University of Birmingham, UK; Civil Engineering Department, Aristotle University of Thessaloniki, Greece; European Academy of Sciences and Arts (EASA): *Sustainable Energies in the Era of Artificial Intelligence* (energetics)

**Athanasia Printza**, School of Medicine, Aristotle University of Thessaloniki, Greece; European Academy of Sciences and Arts (EASA): *Transforming Health Care for Sustainability and Health Outcomes that Matter to People* (medicine)

**Žiga Turk**, Faculty of Civil and Geodetic Engineering, University of Ljubljana, Slovenia; European Academy of Sciences and Arts (EASA): *Sustainable and Regenerative Economics: Making the World a Better Place* (economics)

**Mariana Tian**, Scientific Secretary, Division "Man and Society", Bulgarian Academy of Sciences, Sofia: *Leadership – a Key Factor for Sustainable Development in the Context of Growing Economic, Social and Environmental Challenges* (political science and law)

**Discussion**

16:40–18:10	<b>SPECIAL SESSION 2: VIRTUAL SCIENCE AND ART EXHIBITIONS</b>
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**Moderation:**

**Vesna Vučinić**, Faculty of Philosophy, University of Belgrade, Serbia; World Academy of Art and Science (WAAS); Former Chair, World Council of Anthropological Associations (WCAA)

**Exhibitions:**

**Pashington Obeng**, Chief Executive Officer, Pan African Heritage Museum, Accra, Ghana: *Origin of Humanity: Pan African Heritage Perspective* (archaeological exhibition)

**Chen Pu**, Scientific Research Office, Institute for the History of Natural Sciences, Chinese Academy of Sciences, Beijing: *History of Natural Sciences in China* (scientific exhibition)

**Yev Kravt**, ART for The World, Geneva, Switzerland: *Doppelgänger: Reflections, Replicas and the Self in the Age of the Digital Double* (visual arts exhibition)

**Discussion**

## Zepter Museum

18:20–18:40 **Renaissance Ensemble**, Belgrade, Serbia (music happening)  
18:40–19:10 **Legacy of Leposava Lepa Perović**, Lazarevac Cultural Center, Serbia, curator:  
**Darinka Stanojević** (paintings exhibition)

## September 24, 2025, Wednesday, Day 2

### SECTION 2: CONTRIBUTION OF SOCIAL AND HUMANISATIC SCIENCES TO SUSTAINABILITY, Serbian Academy of Sciences and Arts

8:30–10:20 **SESSION 2.1**

#### Moderation:

**Carlos Álvarez Pereira**, Secretary General, The Club of Rome; World Academy of Art and Science (WAAS); Member, Steering Committee, The Earth-Humanity Coalition

#### Talks:

**Miomir Korać**, Institute of Archaeology in Belgrade, Serbia; Serbian Chapter of The Club of Rome: *Viminatium as a Sustainable Settlement* (archaeology)

**Ren Lin**, Director, Department of Global Governance, Institute of World Economics and Politics, Chinese Academy of Social Sciences, Beijing: *Multilateralism* (political science), to be confirmed

**Robert Costanza**, Institute of Global Prosperity, University College, London, UK; Crawford School of Public Policy, The Australian National University, Canberra; The Club of Rome: *Well-Being Economy* (economics)

**Tibor Várady**, Serbian Academy of Sciences and Arts: *International Law – Between Sustainable Reality and Sustainable Phrases* (law)

#### Discussion

10:20–10:50 *Coffee break*

10:50–12:40 **SESSION 2.2**

#### Moderation:

**Dragan Đuričin**, Advisory Committee for the Implementation of the International Decade of Sciences for Sustainable Development, United Nations Educational, Scientific and Cultural Organization (UNESCO); World Academy of Art and Science (WAAS); Governing Board, Serbian Chapter of The Club of Rome

#### Talks:

**Dragan Simeunović**, Faculty of Political Sciences, University of Belgrade, Serbia; Vice President, Serbian Chapter of The Club of Rome: *Politics as the Art of Illusion* (political science)

**Nebojsa Nakicenovic**, Vice Chair, Group of Chief Scientific Advisors, European Commission; Former Deputy Director General, International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria; Vienna University of Technology, Austria; World Academy of Art and Science (WAAS), *Integrated Science and Research for the Benefit of the People and the Planet* (economics)



**Alessio Surian**, Department of Philosophy, Sociology, Education and Applied Psychology, University of Padova, Italy: *A Cultural-Historical Approach to Learning and Sustainability* (psychology)

**Fadwa El Guindi**, Board of Trustees, World Academy of Art and Science (WAAS); University of California at Los Angeles, USA: *Human Security Relativized* (anthropology)

#### **Discussion**

12:40–13:40 *Lunch break*

### **SECTION 3: CONTRIBUTIONS OF ARTS TO SUSTAINABILITY, Serbian Academy of Sciences and Arts**

13:40–15:30 **SESSION 3.1**

#### **Moderation:**

**Vladimir Kostić**, Serbian Academy of Sciences and Arts

#### **Talks:**

**Vesna Goldsworthy**, Department of English and Creative Writing, University of Exeter, UK; School of Literature, Drama, and Creative Writing, University of East Anglia, Norwich, UK: *Iron Curtain: The Novel as an Analytical Form* (prose)

**Maja Herman Sekulić**, Vice President, International Academy of Ethics, Chandigarh, India; Academy of American Poets; PEN America; Serbian PEN Center; Association of Writers of Serbia; Serbian Literary Society: *The Digital Galaxy* (essays and poetry)

**Mario Petrucci**, Royal Literary Fund Fellow, Oxford Brookes University, University of Westminster, London, Brunel University of London, City and Guilds of London Art School, Imperial War Museum, London, UK: *Art and Sustainability: Salvation and the Unholy Trinity* (poetry/art)

**Anni Kumari**, Department of Visual Arts, Ashoka University, Sonipat, India: *Spirals: The Structural and the Spectacular across Mathematics and Painting* (painting)

#### **Discussion**

15:30–17:00 **SESSION 3.2**

#### **Moderation:**

**Mirjana Nikolić**, Rector, University of Arts in Belgrade, Serbia

#### **Talks:**

**Vera Milanković**, Faculty of Music, University of Arts in Belgrade, Serbia; Serbian Chapter of The Club of Rome: *The Song Was Our Salvation* (music)

**Irena Živković**, Faculty of Applied Arts, University of Arts in Belgrade, Serbia: *Applied Arts and Materials Science* (applied arts)

**Aine Clarke**, Co-Founder, Azimut Company, Brussels, Belgium: *The Power of Visual Storytelling: Co-Creating a World of 3 Zeros* (film)

#### **Discussion**



**CONCLUDING SESSION: INTERFACES BETWEEN SCIENCE, ART, AND SOCIETY,  
Serbian Academy of Sciences and Arts**

17:00–18:00 **Moderation:**

**Nebojša Nešković**, Vice President for Science and Technology, World Academy of Art and Science (WAAS); The Club of Rome; President, Serbian Chapter of The Club of Rome; Steering Committee, The Earth-Humanity Coalition

**Talks:**

**Carlos Álvarez Pereira**, Secretary General, The Club of Rome; World Academy of Art and Science (WAAS); Steering Committee, The Earth-Humanity Coalition

**Steven Hartman**, Founding Executive Director, UNESCO-MOST BRIDGES Coalition; Steering Committee, The Earth-Humanity Coalition

**Garry Jacobs**, President and Chief Executive Officer, World Academy of Art and Science (WAAS); Chairman of the Board of Directors and Chief Executive Officer, World University Consortium (WUC); The Club of Rome

**Discussion**

**Ethnographic Museum**

19:00–19:40 **Dragoslav Pavle Aksentijević and the Record Group**, Belgrade, Serbia, and **Children’s Choir of the Serbian Church Singing Society of Pančevo** (music happening)

19:50–20:20 **Gallery of Naive Arts**, Kovačica, Serbia, curator: **Ana Žolnaj Barca** (paintings exhibition)

**Aeroclub**

20:30–22:30 *Farewell dinner* and **Ivan Aleksijević**, Belgrade, Serbia, piano