

## Memorandum of Understanding Organization of the International Year of Basic Sciences for Sustainable Development (IYBSSD)

Between

### **International Union of Pure and Applied Physics (IUPAP)**

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Represented by: **Michel Spiro, President**

And

### **European Magnetism Association (EMA)**

Represented by: **Burkard Hillebrands, President**

#### **A. Aim of the agreement**

Several international scientific unions wish to act together as the Founding Unions to organize an International Year of Basic Sciences for Sustainable Development (IYBSSD) in 2022, under the aegis of UNESCO and with the collaboration of UNESCO International Basic Sciences Programme (IBSP). Several scientific organizations, the Founding Partners, fully support this initiative.

During IYBSSD, there will be several international events organized by Founding Unions and Founding Partners, with the aim to promote the role of basic sciences in the achievement of the United Nations 'Sustainable Development Goals'. There will also be communication actions at various scales, and incentives for local, regional and national organizations to set up their own events with the same aim.

Other international scientific unions and scientific institutions, as Partners, will contribute to and support the organization of IYBSSD.

The purpose of this memorandum of understanding (the "MoU") is to set out:

- the role of the Founding Unions and Founding Partners in the IYBSSD organization;
- the human resources and financial commitment of EMA toward the IYBSSD project;
- the communications about IYBSSD.

#### A.1 List of the Founding Unions as known at the date of this MoU

- IUPAP which is an international union representing physicists around the world.

- IUPAC which is an international union representing chemists around the world.
- IMU which is an international union representing mathematicians around the world.
- IAU which is an international union representing astronomers around the world.
- IUBS which is an international union representing biologists around the world.
- IUMRS which is an international union representing materials scientists around the world.
- IUGG which is an international union representing geodesy and geophysics scientists around the world.
- IUCr which is an international union representing crystallographers around the world.
- IMA which is an international union representing mineralogists around the world.
- IUVSTA, which is an international union representing physicists, chemists, vacuum scientists and technologists around the world.
- IUHPST which is an international union representing historians and philosophers of science and technology around the world.
- ISC-SCOR which is an international organisation representing ocean science around the world.
- ICIAM which is an international union representing industrial and applied mathematicians around the world.
- IGU which is an international union representing geographers around the world.

#### A. 2. List of the Founding Partners as known to the date of this MoU

- IRD is a French public research organization dedicated to sustainable development in partnership with countries from the Global South.
- CERN is an international research organization dedicated to nuclear and particle physics.
- ICTP is an international research and training center whose aim is to advance scientific expertise in the developing world.
- JINR is a large multidisciplinary international scientific centre incorporating basic research in the field of modern nuclear physics, development and application of high technologies, and university education in the relevant fields of knowledge.
- SESAME is an international research organization for the use of synchrotron radiation.

- EPS is the European federation of national physics societies.
- IIASA is an international, interdisciplinary research institute that conducts policy-oriented research based on systems analysis into pressing world concerns, including on environment, energy security, population, and sustainable development.
- NuPECC is an Expert Committee of the European Science Foundation.
- Rencontres du Vietnam is an organisation that aims to helping Vietnamese scientists and those of the Pacific-Asian world to improve their skills and to establish contacts and exchanges with colleagues from the West.
- ISC is a non-governmental organization with a global membership that brings together international scientific Unions and Associations and national and regional scientific organizations including Academies and Research Councils.
- Chinese Academy of Sciences is the linchpin of China's drive to explore and harness high technology and the natural sciences for the benefit of China and the world
- The SKAO, formally known as the SKA Observatory, is an intergovernmental organisation whose mission is to build and operate cutting-edge radio telescopes to transform our understanding of the Universe, and deliver benefits to society through global collaboration and innovation.
- FRQ have the mission to support and promote excellence in research and training of the next generation in the natural sciences, mathematics, engineering, health sciences, human and social sciences, and arts and literature, in order to stimulate knowledge development and innovation. Our mission is in line with the principles of open science, SDGs & EDI.
- EGO, the European Gravitational Observatory has as its purpose the promotion of research in the field of gravitation in Europe.
- INFN is the Italian public research Institute that promotes, coordinates and carries out theoretical and experimental research in the field of sub-nuclear, nuclear and astroparticle physics as well as the technological research necessary for such activities.
- ESRF is a high-energy synchrotron X-ray source and a centre of excellence for fundamental and innovation-driven research in condensed and living matter science.
- The Royal Society of Canada, (RSC) serves Canada and Canadians by recognizing Canada's leading intellectuals, scholars, researchers and artists and by mobilizing them in open discussion and debate.
- ESO, is an intergovernmental science and technology organisation in astronomy. It carries out an ambitious programme focused on the design, construction and operation of powerful ground-based observing facilities for astronomy, in order to enable important scientific discoveries. ESO also plays a leading role in promoting and organising cooperation in astronomical research.

- APPEC is a consortium of funding agencies, governmental institutions and institutes from European countries that promotes cooperation and coordination, and formulates, updates and realises the European astroparticle physics strategy.
- SESAME is an international research organization for the use of synchrotron radiation. It is a centre of excellence that fosters scientific and technological excellence in the Middle East and neighbouring regions that is open to all scientists from the region and elsewhere. SESAME serves as a propeller for the scientific, technical, and economic development of the region, and strengthens collaboration in science.
- ITER Organization which is an international organization whose purpose is to provide for and promote cooperation among its Members for the benefit of the ITER Project, an international an international project that aims to demonstrate the scientific and technological feasibility of fusion energy fr peaceful purposes, an essentials feature of which would be achieving sustained fusion power generation.
- European XFEL is an international, non-profit, and publicly funded research institute operating the world's largest X-ray laser and opening up completely new research opportunities for scientists and industrial users from all over the world.
- The European Magnetism Association is an association that represent researchers in the fields of magnetism and magnetic materials in Europe.

Other Founding Unions and Founding Partners may be added to this list during 2022, with the approval of the steering committee (see B.1.).

## **B. Role of Founding Unions and Founding Partners**

### B.1. Steering Committee

The Steering Committee is the main organization body of IYBSSD.

It overviews and steers the IYBSSD globally. Especially, it approves:

- the international programme for IYBSSD;
- the list of Partners;
- the composition of the International Advisory Committee;
- the International Budget for IYBSSD.

It is composed of one representative from each Founding Union and Founding Partner.

For every decision, the chair should look for consensus.

If a vote is needed for a decision, each Founding Union and Founding Partner will have one vote. In the case of a tied vote, the Chair will have a casting vote to break the deadlock. Decisions are taken with a simple majority.

The Steering Committee shall meet at least once a year, in person or online, and is consulted through e-mail by the chair for every important decision regarding the organization of

IYBSSD. Answers to these requests must be made within a reasonable time frame, usually 48 hours.

The Steering Committee may approve, on proposal of its chair, the addition of other Founding Unions and Founding Partners beyond the initial list of this MoU.

## B. 2. Referent Institution

The Founding Unions and Founding Partners agree that, among them, IUPAP will be the Referent Institution for IYBSSD.

They agree that IUPAP can act as the representative of the Steering Committee toward Partners, Sponsors, contractors, and every authority (especially UNESCO and UN).

As such, they agree that the chair of the Steering Committee is the representative of IUPAP. At the time of the signature of this MoU, the chair is Michel Spiro, President of IUPAP (2019-2023).

As such, IUPAP can sign partnership agreements and Memoranda of Understanding related to IYBSSD with different institutions: other international scientific unions, science academies, international research centres.

IUPAP will receive and manage funds (hereafter, common funds) collected from Founding Unions, Founding Partners, Partners and Sponsors of all kinds. IUPAP will manage the common funds and use them to pay the expenses of the IYBSSD. This should not preclude Founding Unions from organizing and funding events independently as part of the IYBSSD.

IUPAP will set in place a special accountability process in order to separate all IYBSSD operations from its ordinary activity. Steering Committee members will be able to have a view on this accountability on request, and IUPAP will report on the accounts of IYBSSD annually to the meeting of the Steering Committee.

The Founding Unions and Founding Partners agree that IUPAP can select contractors for the preparation and implementation of IYBSSD activities (e.g., international conferences, communication, and fundraising) with the stipulation that they observe appropriate codes of conduct for administration, including calls for proposals, invitations to tender, selection committees, and declarations of conflict of interest. On request, and when suitable, they will share the contact of their own contractors.

## B. 3. International Advisory Committee

The International Advisory Committee advises the Steering Committee about the International Programme of IYBSSD and makes proposals for regional and national programmes.

It is composed by representatives from different parts of the world, in agreement with the Steering Committee, especially by representatives of national science academies and their continental networks. They also act as contact persons.

It is chaired by the chair of the Steering Committee.

The International Advisory Committee shall meet at least once a year, in person or online.

#### B. 4. International High Patronage Committee

The International High Patronage Committee is composed of high-level scientists from all over the world and in every field of basic sciences.

The International High Patronage Committee members advise the chair of the Steering Committee about all matters regarding IYBSSD.

### **C. Commitments of the Founding Unions and Founding Partners**

#### C. 1. Human Resources Commitment

Each Founding Union and Founding Partner will:

- delegate a representative to the Steering Committee, with the ability to take decisions in the name of the Founding Partner;
- share with the Steering Committee, and especially with its chair, all relevant information that could help in the preparation and implementation of IYBSSD;
- as much as possible, take part in the organization of the international programme of IYBSSD, especially of international conferences;
- share the communication material produced by the IYBSSD International Secretariat with its members and through its networks, with all means at its disposal, including social network accounts, website, newsletters and journals, electronic and in print;
- mobilize its member organizations or its representatives, if relevant, to set up national or regional IYBSSD committees for the organization of national and regional programmes.

#### C. 2. Financial commitment

The preparation and organization of IYBSSD needs to be funded. This funding will rely on Sponsors, partners and also on Founding Unions and Founding Partners.

The Founding Unions and Founding Partners agree to share contacts of Sponsors that already fund some of their activities and to help as much as possible for fundraising to enable the implementation of IYBSSD.

The Founding Partners agree that the preparation of IYBSSD needs to be commonly funded (to cover campaign toward UN national delegations, meetings, participation to science and science policy conferences to advertise IYBSSD and lobby about it, communication, documents production, etc.).

So, they undertake to provide themselves, with the help of Partners, the common funds necessary for the preparation of IYBSSD.

The funding schedule will be, for EMA:  
- before the end of 2022: 1,000 EUR.

Payment shall be made upon receipt of invoices sent by IUPAP to the President of EMA.

#### **D. Open Access**

Founding Unions and Founding Partners agree that IYBSSD is a common good and needs to be widely shared, advertised and campaigned for. They agree that open access is essential to these purposes.

All content and documents produced on purpose for IYBSSD by whatever organization will use a Creative Commons Licence BY-NC-ND 4.0. This licence allows a wide non-commercial and without transformation sharing.

As such, the producers of any content and document must obtain from authors, designers, inventors, whether or not they are its employees, the authorization for such an exploitation (reproduction, representation, adaptation or translation licence) without time limitation.

#### **E. Duration**

This MoU shall take effect upon signature and remain in force up to six months after the end of IYBSSD, without prejudice to the provisions on termination and continuation of intellectual property obligations after the end of the MoU.

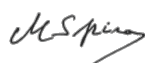
Within six months after the end of IYBSSD, the Referent Organizing Partner will provide a complete financial report. If funding exceeds expenses, the chair of the Steering Committee will propose one or several basic science education projects in developing countries to be funded with the remaining amount.

#### **F. Termination of Agreement**

Any party can terminate its participation to this MoU by giving two months' notice, by sending the other party a registered letter with acknowledgement of receipt stating the reasons for the termination. The notice shall commence from the date of receipt of the letter. During the notice period the Steering Committee will use its best efforts to resolve the reasons for the termination or shall provide proof that the termination arises from an impediment resulting from a case of force majeure, in which case the termination shall be withdrawn.

Date: Apr 5, 2022

On behalf of IUPAP  
Michel Spiro, President



On behalf of EMA  
Burkard Hillebrands, President











# IYBSSD - EMA - IUPAP MoU

Final Audit Report

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