Progress report on
IUPAP Centenary

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Recap of initial ideas

• Idea is to split the work around the following initiatives:

1. The Centennial Symposium
2. Publicity material on the Centenary (&IUPAP)
3. History of IUPAP
4. Satellite events elsewhere in the world
5. …?
The Centennial Symposium (I)

Venue, timing and format

• In Geneva (CERN?) in the fall of 2022 as one of the initiatives for the International Year of Basic Sciences for Developments (IYBSD)

• Our resources are modest, so it is seems important to have the support from a large institution

• See, e.g., what the IAU (International Astronomical Union) and the IUPAC are doing to celebrate their centenary this year:
  
  https://www.iau-100.org

  https://iupac.org/100/

(PS: Our web pages would benefit from a general ‘relooking’)
The Centennial Symposium (II)

Venue, timing and format

• CERN has recently launched the Science Gateway, a new futuristic building designed by world-renowned architect Renzo Piano, entirely funded through external donations. Science Gateway will be a centre for scientific education and outreach targeting the general public of all ages.

• The idea is to inaugurate it with the IUPAP celebrations as well as with events related to the IYBSD. This would greatly amplify the impact of our event. At the same time, having such a target is also useful for CERN.

• Idea extensively discussed with CERN management

• A fallback solution could be to organize a symbolic event at the Palais de Nations and then use other facilities such as the Geneva's International Conference Center (CICG).
Science Gateway
The Centennial Symposium (III)

• Possible themes (linking with the IYBSD):
  
  – Physics as a building block of basic sciences
  
  – Physics as a motor for innovation, technology & economic development
  
  – Education (active learning of physics) for boys and girls, e.g. invite the commissions to prepare some small “portable” experiments
  
  – Physics and multicultural dialogue
  
  – Physics and global challenges
  
  – Promoting gender equality in science .....
The Centennial Symposium (IV)

- Join forces with the Wright Science Colloquia, held every two years at the University of Geneva, see https://colloque.ch/en/introduction-2/

  - Timing would match and they have funding and a well-run organization with public talks (one per evening over a week; 2018’s theme was Gravity), an event for the younger public and Sound&light show.

  - I met with the organisers of the Colloquia and they are interested in joining forces
Publicity material on Centenary

How can we make the Centenary (and IUPAP!) more visible?

• Worked on a presentation and logo & posters, with help of a professional graphic designer from World Scientific

• All publicity material collected in a common dropbox depository
Proposal for the logo
Some poster ideas
Mihoko Nojiri
IUPAP Young Scientist Prize Winners

Our young scientists are our future

Advancing physics across international boundaries for the past 100 years
INTERNATIONAL UNION OF
PURE AND APPLIED PHYSICS

Advancing physics across international boundaries for the past 100 years

INTERNATIONAL COMMISSIONS
C1: Commission on Policy and Finance
C2: Commission on Symbols, Units, Nomenclature, Atomic Weights & Fundamental Constants
C3: Statistical Physics
C4: Astrophysics
C5: Low Temperature Physics
C6: Biological Physics
C7: Semiconductors
C8: Magneto
C9: Structure and Dynamics of Condensed Matter
C11: Particles and Fields
C12: Nuclear Physics
C13: Physics for Development
C14: Physics Education
C15: Atomic, Molecular, and Optical Physics
C16: Plasma Physics
C17: Laser Physics and Photonics
C18: Mathematical Physics
C19: Astrophysics
C20: Computational Physics

AFFILIATED COMMISSIONS
AC1: International Commission for Optics
AC2: International Commission on General Relativity 

WORKING GROUPS
WG1: International Committee for Future Accelerators (ICFA) WG2: Communications in Physics
WG3: Women in Physics
WG4: International Committee on Ultrahigh Intensity Lasers (ICUIL)
WG5: International Cooperation in Nuclear Physics (ICNP)
WG6: Gravitational Wave International Committee (GWIC)
WG7: Energy
WG8: Neutrino Physics
WG9: Accelerator Science
WG10: Soft Matter
WG11: Industry
WG12: Centenary

“...to assist in the worldwide development of physics, to foster international cooperation in physics, and to help in the application of physics toward solving problems of concern to humanity”

2022
The yearlong CENTENARY celebrations will:

• Increase awareness of physics discoveries and the close ties among physicists at research centres globally.

• Stimulate worldwide interest in physics and science, as a tool for education and a motor of innovation, technology & economic development.

• Reach out to the global physics community, national science organisations, policy-makers, societies, students, families and the general public.

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INTERNATIONAL UNION OF PURE AND APPLIED PHYSICS

Projects supported
- GENDER GAP
- IJAMP
- IYBSD
- IYPT
- IDL

Conference Sponsorship
IUPAP sponsors and endorses conferences to foster active communication within the physics community and beyond, with special attention to those held in developing countries.

Young Scientist Award
Awarded to 3 young scientists from each commission per term. Almost 200 prizes have been awarded in the last 10 years.

International Union of Pure and Applied Physics

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Publicity material on Centenary

• Prepare dedicated leaflets (one page) with mission statement and facts & figures from each commission and WGs on one side and general IUPAP info on the other.

Goals:

• To prepare a little booklet for the Centenary. Still quite a few holes and very mixed content. Work necessary to fill the gaps and have more homogeneous content and look & feel.

• To distribute leaflets to participants of IUPAP-sponsored conferences (~35 per year) together with conference material.

• Proposal: we provide the "back page" with the general IUPAP info and you fill in the front page with relevant facts about your commission/wg relevant for your conference. Successful example from C14!
Leaflets
History of IUPAP

- Idea is to profit from the occasion to make order in the IUPAP archives and digitize them.

- A lot of very interesting material already available on the common dropbox repository. This material should be catalogued and some of it could be posted on the web as “stories”. Very interesting book on IUPAP “Physics 50 years later” (Article on “The unity of physics” by E. Amaldi)

- The idea of publishing a “Centenary book” with the help of a professional historian is at the moment “dormant”. Interested and qualified person identified (Research Scholar at the Max Planck Institute for the History of Science in Berlin), however he failed to obtain a grant to cover his salary not successful.
Other ideas

• **Satellite events.** Use IUPAP-sponsored conferences as vehicles to celebrate the Centenary and the IYBSD, e.g. having dedicated plenary talks (for free). Condition to sponsorship?

• ‘Local’ initiatives are encouraged. IUPAP will act as an ‘umbrella’ for these various initiatives, however, things will not happen unless YOU promote them!

• **2023 General Assembly**, in Paris, 100 year after the first General Assembly (1923 – Paris)