



2024 External Review

Overview of the external review and recommendations requested by IUPAP EC



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Overview

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Overview

We were tasked to conduct an external review of IUPAP, and provide recommendations for the future development of IUPAP.

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| Chair: Atlas Varsted George Amolo Mark Cesa (IUPAC) | Cathy Foley Sang-Joon Cho |
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The recommendations made should not be considered a final to do list, but simply a collection of recommendations and suggested solutions.

Impact Pathways

1

Science policy and development

3

Diversity, Equity, and Inclusion

2

Students and Education

4

Science Industry

Physics Policy/Development

“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.”

- IUPAP mission statement

Currently a large number of commissions, affiliated commissions, and working groups focusing solely on physics policy/development.

- Need for consolidation of overlapping groups
 - Transition to more project based work.
- Better distribution of funds

More focus on impacting world wide science policy and ethics.

Diversity, Equity, and Inclusion

Currently consists of

- Women in physics
- Physics for Development

New working groups/ commissions to focus on a wider range of DE&I topics.

- Accessibility guidelines
- An in depth evaluation of the current DE&I state of the organization

Students and Education

Working closer with IAPS, and students.

- Create a better pipeline from IAPS to IUPAP.
- Increase in student opportunities and mentorship.

Outreach opportunities for younger students(High School, ie. IAPS outreach day)

Working to improve education standards in policy as well as working with educators to improve lesson.

Industry

Recruiting more industry members and working with these to create a greater sense of community between academia, industry, and students

Structure

Physics policy/development

Assorted commissions, associate commissions, and working groups

Students and Education

C14 - Physics Education

AC5 - International Association of Physics Students

Diversity, Equity, and Inclusion

Gender Champion
WG5 - Women in Physics

C13 - Physics for Development

WG - DE&I

Industry

WG16 - Physics in Industry

Make IUPAP leadership and commission more accessible to newcomers

- **Open self nominations**

Work to align EC roles with the Unions activities.

Move to more project based activities

Perception and Stakeholders

As the premier global organization for physics, IUPAP is uniquely positioned to bridge the gap between academic research and industrial innovation.

Building a new perception of IUPAP as a crucial intermediary that accelerates the evolution of research methodologies and technological innovations in tandem with industry needs.

IUPAP should engage more proactively with industry partners, policymakers, and other stakeholders to develop strategies for supporting industrial advancements through physics-based solutions.

CEO

Berry Books

COO

Vinny Viewer

Chief Director

Wendy Writer

Communication

Currently:

Unclear budget and marketing strategy

Inconsistent use across platforms

C14 - 4000 CHF newsletter??

Create a clear strategy for communications.

- Allocate a budget - 5-15%
- Adopt best practices for accessible communication
- Collect and track data on communications metrics such as downloads and use this to test success of any approaches.

Consider establishing an e-newsletter (c.f., science in Public Australia physics newsletter).

Use digital platforms to hold webinars to enable better communication and elevation of IUPAP outputs.

Allow for flexibility in the payment period in order to reduce financial burden to territorial members that are struggling. For instance, to pay in advance for 2/3 years instead of annually.

Engage professional advice on the investment portfolio to identify investment options to IUPAP's finance committee (or equivalent) for purposes of providing funds for growth. IUPAP would then consider their tolerance of investment risk, desire for portfolio growth vs. maintenance of their capital, etc.

IUPAP should request extension of the tax exemption granted in the period 2021 – 2025 so as to maintain the current funds collected from membership revenue.



Thank you.

