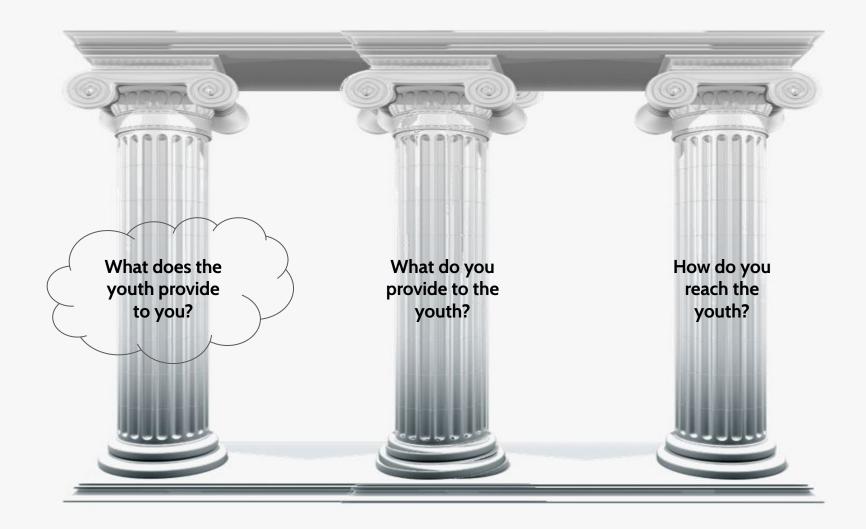


What brings young members into international associations and unions?



Partners





International Association of Geomagnetism ar

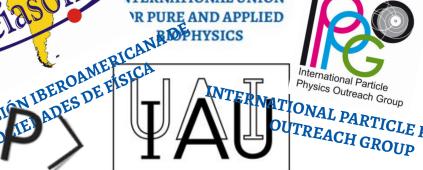
INTERNATION! GEOMAGNETISA



UNIÃO DE FISICOS E PAÍSES DE MINION OF CRYSTALLOUGUENA CRYSTALLOUGUENA



NTERNATIONAL UNION **VR PURE AND APPLIED**



INTERNATIONAL ASTRONOMICAL UNION TREOF THE EARTH'S INTERIOR
SOCIETY SOCIETY



AFRICAN SCHOOL OF FUNDAMENTAL PHYSICS AND APPLICATIONS

INTERNATIONAL UNION OF PURE AND APPLIED PHYSICS



IAPS and IUPAP: A collaboration case-study

Introduction to IUPAP

• The creation of AC5

Initiatives and collaborations with IUPAP

IAPS and IUPAP: A collaboration case-study

- IUPAP is the only international physics union organized by the physics community
- IAPS is the largest international association representing the voice of physics students

What does IUPAP want from IAPS?



Engagement

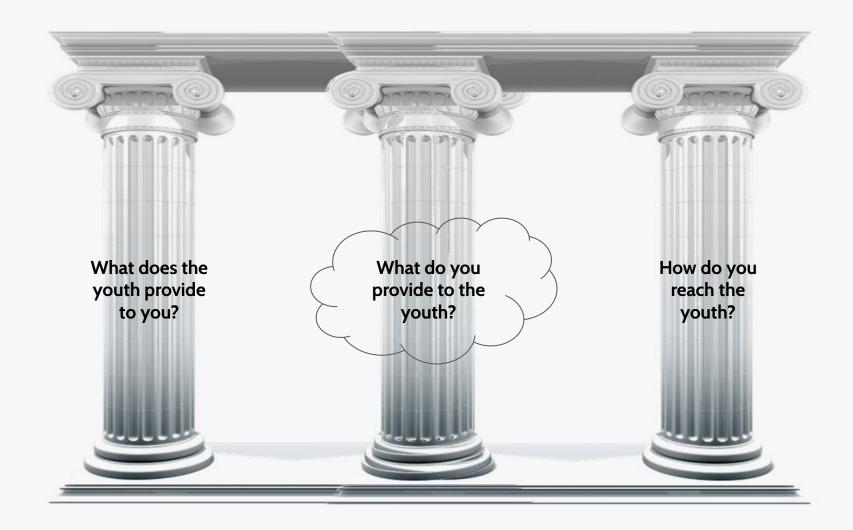
Expertise

Resources

Sustainability

Involvement of IAPS in IUPAP

- → IAPS represents physics students to IUPAP through an affiliated commission
- → IAPS participates in the working groups of "Physics and Industry" and "Women in Physics"
- → IAPS is represented in the Commission of Education
- → IAPS utilizes its resources of volunteers and reach supporting IUPAP initiatives



{iaps}

What does IAPS provide to its members?

The
International
Conference of
Physics
Students



ICPS: A unique conference, reimagined online

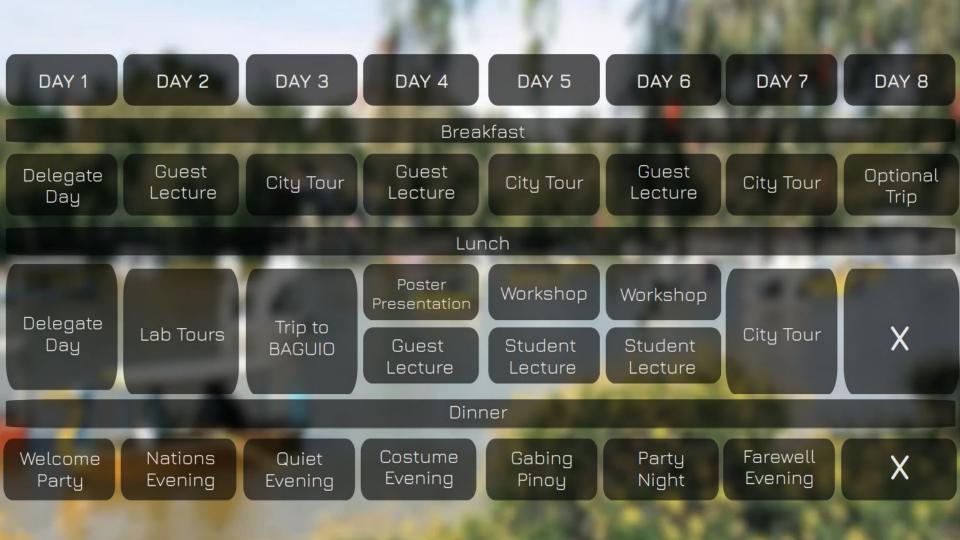
- Introduction to ICPS, purpose and itinerary, typical programme
- How ICPS supports young physics students to build important skills
- How it acts as a platform for professional development and soft skills in a friendly, multicultural environment
- COVID Crisis and ICPS online how an organization adapts to use novel online platforms to engage young people

{ a p s } The International Conference of Physics Students

One international annual conference open to all physics students

Consistent platform to exchange with others about science and life

Creates opportunities and first conference experience for IAPS members



Guest lecture:

- Improvement of professional knowledge
- Adjustment to new styles of presentation

Lab tours:

- Visual experience of experiment and setup
- Close communication with researchers

Student lectures /poster sessions:

- Presentation skills
- Introduction to critical feedback

Workshops:

- Development of soft skills
- Active practice

A platform for professional development and soft skills in a friendly, multicultural environment

ICPS 2019 in Cologne

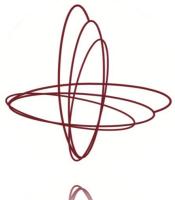




ICPS 2021: An online conference

We need to adjust our expectations!

- 24h programme on 4 days to create timezone independence
- Usage of Gathertown as a unique platform that allows poster presentations, talks, and networking opportunities
- Youtube streaming for passive participation
- Discord server as an around the clock moderated communication platform
- Online competitions and treasure hunts to keep participants engaged
- Gaming nights and "video" excursions to replace well-known concepts





ICPS 2021: An online conference

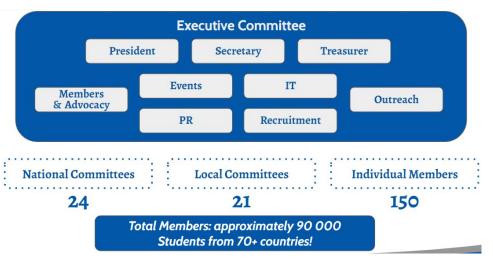
Insert pictures and insights from ICPS 2021 report

A Question for the Audience

Who of you have organized an online conference already?

Who of you have used one of the tools we used to engage our members?

An entirely student-run organization



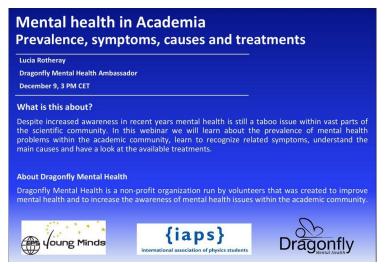


▶ The first IAPS AGM (Prague, 1988). 1st left: Tamás Fülöp. At the table (left to right): Andrzej Bobyk (leader of the Polish NC); Jan de Boer (leader of the Dutch NC); Mikko Vanttinen (leader of the Finnish NC) Standing: Patroklosz Budai. Péter Ván is 4st from left.

Advocacy and support for young people







Outreach and education for young students





Around November 10 each year













Noida, 2021 - "online school day"



(Our member explaining rainbow drop experiment.)

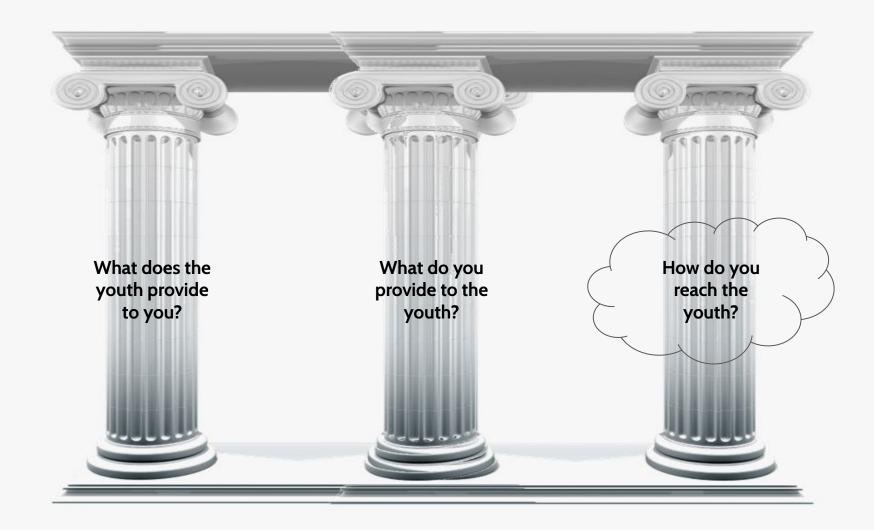


Kathmandu, 2021 - "grassroots school day"

A Question for the Audience

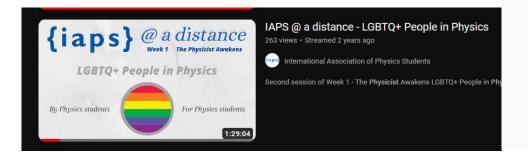
How does your organization work on outreach?

How do you involve young people in your organization's outreach efforts?

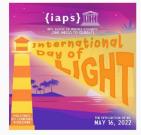


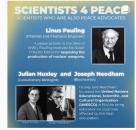
How IAPS engages with students: PR

- Facebook and LinkedIn for event updates
- Youtube for event livestreams and videos
- IAPS Newsletter with science and event updates
- Instagram for updates, multimedia infographics and resharing















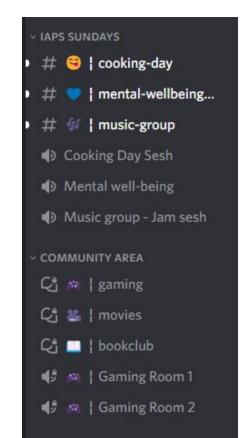






An internal members-only Discord server for

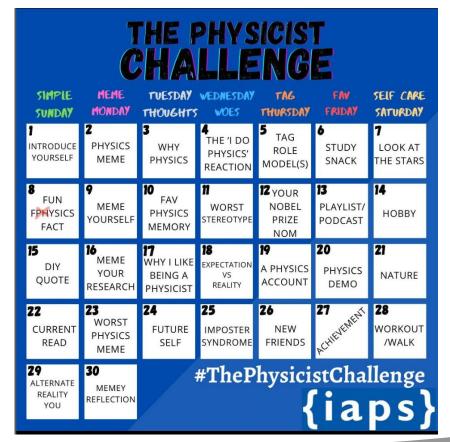
- Cooking Day
- Mental Wellbeing Chat
- Music Group
- Gaming and community engagement
- Networking based on interests and hobbies
- Opportunities for physics students



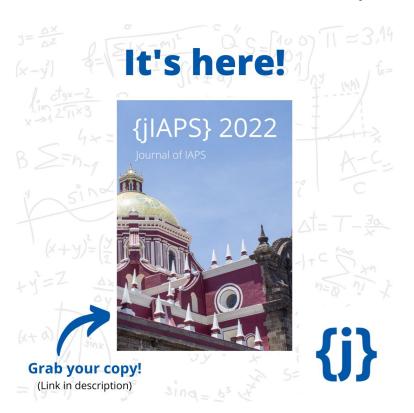
```
SCIENCE CLUBS!
# biological-phy
                     ±° ♦
# astro-phy
# soft-matter
# quantum-info
# complex-systems
# particle-phy
REGIONS
# 60 | asia
    africa
      south-and-centra...
   🌎 ¦ north-america
   europe
   oceania
```

PR Campaigns





jIAPS: our annual student-run journal



JIAPS ARTICLE CONTEST WINNER

The dynamics of the love affair Mihail Miceski



te, describe, or find a connection between mantic styles arise. Let's take a closer look at the the dynamics of their roms and the way people behave? Of course, Romeo style depending on the parameters 'a' and shown graphically by nume

we will not focus on the tragic death of young

This can be portrayed by a mathematical mod-el, consisting of a system of linear equations that (R) and Juliet (J). The system of differential equa-tions looks like this:

$$\frac{dR}{dt} = aR + bJ \qquad \frac{dJ}{dt} = cR + d$$

From the earliest of 'a' denotes how much Romeo is encouraged by and she moves away from him when he approach
thes, wise philosophers his feelings for Juliet to take on something relates the interest of the situation discourages Romeo so the

Romeo is encouraged by his feelings for Juliet

Romeo feels at a loss, but Julia's feelings en-

Romeo reacts negatively to both his and Juliet's



that intertwine in a love affair. In the equations, certain parameters. Romeo is in love with Juliet,



$$\frac{dR}{dt} = aR + bJ \quad \frac{dJ}{dt} = -aR - b.$$

that this article will spark the reader's interest in

chemistry, and engineering. [2] Sprott, J. C. (2004). Dynamical models of love, Journal of Nonlinear Dynamics, Psychology

and Life Sciences.
[3] Shakespeare, W. (1597), Romeo and Juliet.

Good practices to involve the youth

• Create a friendly, supporting environment and youth friendly culture in the organization

 Events and outreach that give hands-on experiences to young students

Use of PR and online tools to build engagement and community

We would love to hear from you!

Introduce yourself, your organization

- How do you involve the youth in your organization? What are the challenges you face in doing so?
- What has worked well with your organization in the past that you can share with us?

{iaps}

Keep up with IAPS!



www.iaps.info



ec@iaps.info



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@iaps physics



<u>International Association</u> <u>of Physics Students</u>



@iaps physics

For Physics Students

iaps)

By Physics Students