



International Particle  
Physics Outreach Group

18<sup>th</sup> IPPOG Meeting – CERN– 28 Nov 2019

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## News from the Coordination

H.P. Beck, *Universität Bern, Chair*

**S. Goldfarb, *University of Melbourne, Chair***

B. Gulejova, *Universität Bern, Core Team*

C. Marcelloni, *CERN, Core Team*

# 17<sup>th</sup> IPPOG Meeting at GSI/FAIR



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## Working Groups

- Exhibitions & Exhibits (Catia Peduto, Steven Goldfarb)
- Explaining Particle Physics Hot Topics to a Lay Audience (Dirk Ryckbosch, Thomas Naumann)
- Bringing Masterclasses to New Countries (Uta Bilow, Ken Cecire)
- Outreach of Applications for Society (Barbora Gulejova, Yiota Foka)

## Meeting Theme & Panel Discussion

- Outreach on the benefits to society from fundamental research
  - Christian Graeff, Pedro Abreu, Rolf Landua, Tobias Engert, Steven Goldfarb
  - Moderated by Hans Peter Beck

Full Agenda

<https://indico.cern.ch/e/ippog17>

# Thank You & Welcome

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## Finland Representative



Panja Luukka



Sami Lehti, *Helsinki Institute of Physics*



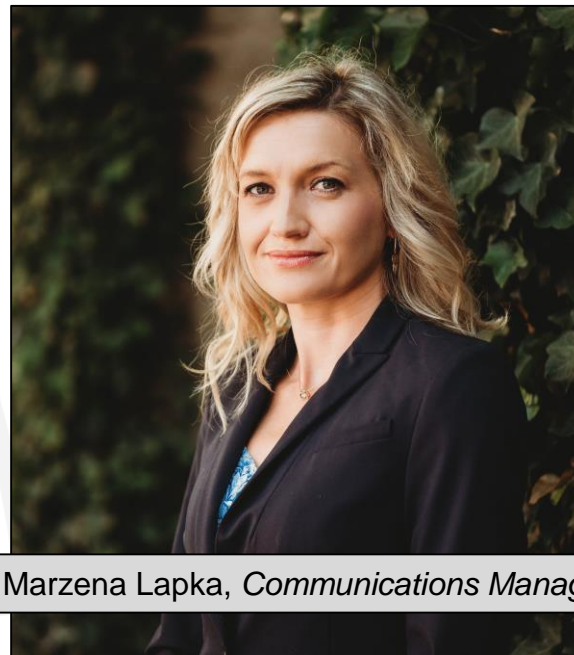
# Thank You & Welcome

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## CMS Representative



Dave Barney



Marzena Lapka, *Communications Manager, CMS*

# Thank You & Welcome

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## CERN Representative



Rolf Landua



Ana Godhino, CERN Head of ECO

# New Member Signatures

## Spain



Alberto Ruiz Jimenez

# New Member Signatures

## Montenegro



Djurdjina Bulatović,  
*Chief of the Cabinet of the Minister of Science*



# IPPOG Members

**32 Members:** 26 Countries, 5 Experiments, 1 International Lab

Member	Representative	Signed	Member	Representative	Signed
1 Netherlands	Charles Timmermans	22 Sep 2016	14 Poland	Kszysztof Wozniak	29 Dec 2016
2 Germany	Michael Kobel	23 Sep 2016	15 Australia	Paul Jackson	14 Feb 2017
3 Norway	Farid Ould-Saada	21 Oct 2016	16 USA	Spencer Paseno	14 Mar 2017
4 Portugal	Pedro Abreu	1 Nov 2016	17 ATLAS	Sascha Mehlhase	1 Nov 2017
5 Sweden	Jonas Strandberg	1 Nov 2016	18 BELLE II	Zdenek Dolezai	19 Feb 2018
6 Switzerland	Katharina Mueller	4 Nov 2016	19 Slovenia	Andrej Gorisek	19 Apr 2018
7 Slovak Republic	Ivan Melo	15 Nov 2016	20 Czech Republic	Vojtech Pleskot	21 Apr 2018
8 Romania	Gabriel Stoicea	17 Nov 2016	21 Brazil	Marcello Munhoz	26 Apr 2018
9 Finland	Sami Lehti	29 Nov 2016	22 Greece	Nick Tracas	19 Jun 2018
10 Belgium	Dirk Ryckbosch	30 Nov 2016	23 Austria	Natascha Hoermann	6 Oct 2018
11 CERN	Ana Godhino	19 Dec 2016	24 Denmark	Ian Gardner Bearden	6 Oct 2018
12 Italy	Catia Peduto	21 Dec 2016	25 LHCb	Bolek Pietrzyk	6 Oct 2018
13 France	Nicolas Arnaud	23 Dec 2016	26 ALICE	Despina Hatzifotiadou	6 Oct 2018

# IPPOG Members

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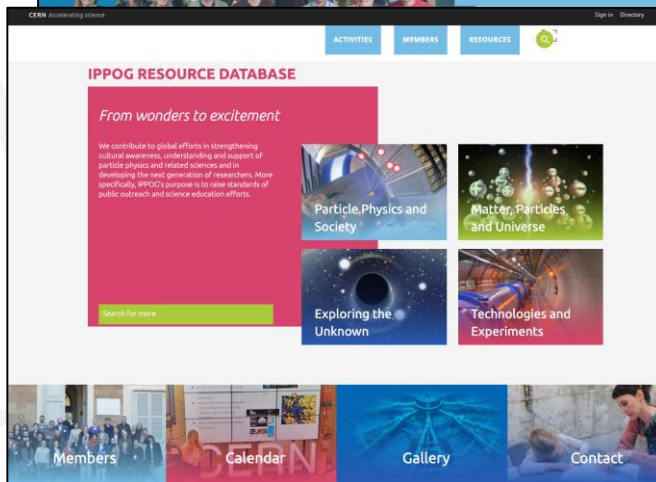
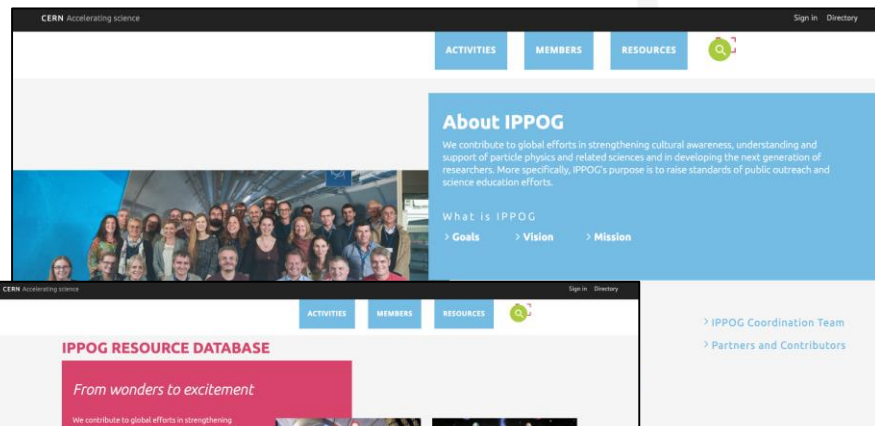
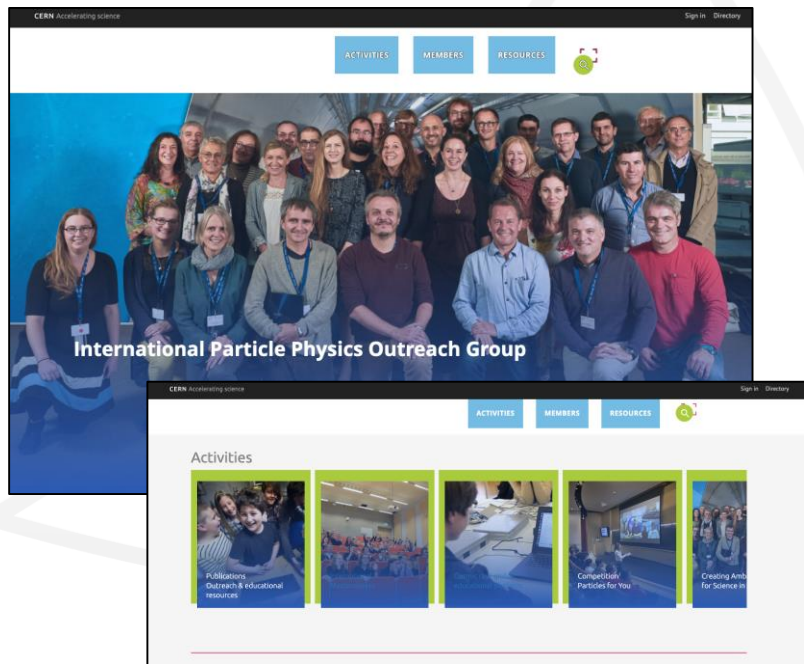
	Member	Representative	Signed
27	Ireland	Jon-Ivar Skullerud	11 Dec 2018
28	CMS	Marzena Lapka	13 Mar 2019
29	United Kingdom	Darren Price	14 Mar 2019
30	Hungary	Dezso Horvath	11 Apr 2019
31	<b>Spain</b>	<b>Alberto Ruiz</b>	<b>26 Jun 2019</b>
32	<b>Montenegro</b>	<b>Djurdjina Bulatovic</b>	<b>23 Oct 2019</b>
--	<b>Georgia</b>	<i>Alexander Sharmazanashvili</i>	<b>Pending Sig</b>
--	Bulgaria		Expected
--	Israel		Expected
--	South Africa		Expected

## Associate Membership for National Labs

- To be discussed, voted on in CB
- If agreed, vote on GSI-FAIR
- Others to follow in next meeting

# IPPOG Core Team Activities

## Web Page Development



# IPPOG Core Team Activities

## Chair Reporting

- EPPSU Working Group 5
  - 17 June 2019
- GR22Amaldi13 (Valencia)
  - 12 July 2019
- CERN Scientific Policy Committee
  - 24 Sep 2019
- CERN Council
  - 27 Sep 2019
- JENAS 2019 (Orsay)
  - 1<sup>st</sup> Joint ECFA-NuPECC-ApPEC Seminar
  - 14-16 Oct 2019





# IPPOG Core Team Activities

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## Annual Report 2020

- We will prepare an annual report with these contributions:
  - One page from chairs
  - Two pages of summary report
  - **Half page per member**
- This will happen following the Fall Meeting
- **Chief Editor:** Claudia Marcelloni

# IPPOG In The Media

## Damjanović potpisala memorandum o razumijevanju

Misija ovih članica je da se maksimiziraju edukativne i promotivne aktivnosti u domenu fizike čestica, te da se mlade generacije podstaknu da izaberu karijere u nauci, tehnologiji, inženjerstvu i matematici

540 pregleda · 1 komentar(a)



Sanja Damjanović (Foto: Vlada Crne Gore)



Vijesti online

2019, 13:30

Ministarstvo nauke Crne Gore, na čelu s dr. Sanjom Damjanović iskazalo je ranije ove godine intenzivno zalaaganje Međunarodnoj grupi za promociju fizike čestica (grupa) u cilju stvaranja njihovim pokroviteljstvom se na Univerzitetu Crne Gore već treću godinu organizira Međunarodni čas fizike čestica Masterclass, navodi se u saopštenju Ministarstva nauke. Kako dalje navode, tim povodom

Montenegro, 23 Oct 2019

## Revista Brasileira de Educação Básica lança 14ª edição

*Publicação comemora os três anos de existência com o lançamento de duas novas seções*

quinta-feira, 31 de outubro 2019, às 14h40

atualizado em segunda-feira, 4 de novembro 2019, às 10h02



Foto de capa da nova edição da RBEB  
Divulgação / RBEB

A Revista Brasileira de Educação Básica (RBEB), que está completando três anos de

Brazil, 31 Oct 2019

## Top physicists, who analyse the Higgs boson while working out 'the truth', to meet in Adelaide

ABC Radio Adelaide

Updated 1 Nov 2019, 9:38am

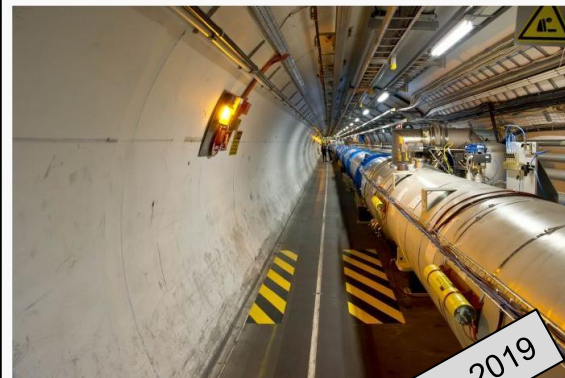


PHOTO: An underground tunnel shows the 27-kilometre ring of the Large Hadron Collider.

Scientists are "anti-politicians" who look for evidence to break theories rather than data to support their ideals, a particle physicist has said ahead of a conference in Adelaide involving the world's top scientists.

Dr Steven Goldfarb is visiting from the world's largest atom smasher at the European Organisation for Nuclear Research (CERN) in

Australia, 1 Nov 2019

# IPPOG In The Media


In evidenza Notizie Lecce Temi Scienze e tecnologia

## RICERCA SCIENTIFICA DI FRONTIERA: STUDENTI DELLE SUPERIORI A ECOTEKNE PER L'INTERNATIONAL COSMIC DAY

Di Anna De Matteis - 6 Nov 2019

Like 0

Facebook Twitter LinkedIn Telegram




Lecce – Sbarca a Lecce l'International Cosmic day, che si tiene oggi mercoledì 6 novembre e che vede protagonisti oltre cento studenti degli istituti superiori delle province di Lecce, Brindisi e Taranto.

## Fisica, studenti a caccia di raggi cosmici: anche a Napoli si celebra l'International Cosmic Day

Da [lidenaro.it](#) - 5 Novembre 2019

50

Condividi su Facebook Tweet su Twitter G+ P



Che cosa sono i raggi cosmici e da dove provengono? Come possono essere misurate le particelle che li compongono? Queste sono alcune delle domande a cui circa 1200 studenti degli istituti superiori di tutta Italia, in contemporanea ai loro coetanei di tutto il mondo, cercheranno di dare una risposta durante l'International Cosmic Day (ICD), organizzato con il supporto dei ricercatori delle Sezioni locali o Laboratori dell'Istituto Nazionale di Fisica Nucleare (INFN). L'appuntamento internazionale, giunto alla sua ottava edizione, è fissato

# IPPOG In Conferences

## APS April 2019 – Denver, CO, USA

- *International Masterclasses: Particle Physics for High School Students and Teachers*, Ken Cecire, IPPOG Masterclass Coordinator

## LHCP 2019 – Puebla, Mexico

- *Particle Physics Outreach as a Strategic Pillar for Society: A report from IPPOG*, Sascha Mehlhase, ATLAS IPPOG Rep

## EPS HEPP 2019, Ghent Belgium

- *Future Challenges in Particle Physics Education and Outreach*, Hans Peter Beck, IPPOG Chair
- *Developments in International Masterclasses*, Uta Bilow, IPPOG Masterclass Coordinator

## ICNFP 2019 – Kolymbari, Crete, Greece

- *The International Particle Physics Outreach Group*, Despina Hatzifotiadou, ALICE IPPOG Rep

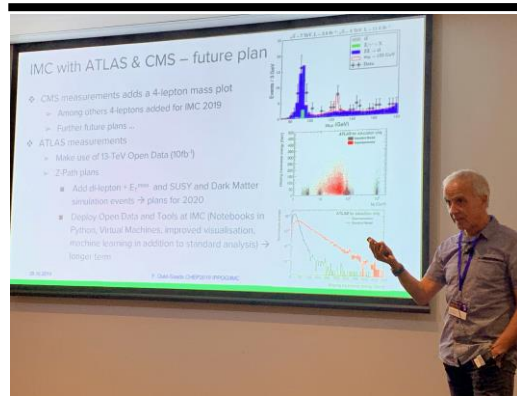
## CHEP 2019 – Adelaide, Australia

- *International Particle Physics Masterclasses - Current development to expand scope and global reach*, Farid Ould-Saada, Norway IPPOG Rep
- *The International Particle Physics Outreach Group - Reaching Across the Globe with Science*, Steven Goldfarb, IPPOG Chair
- *New developments for ALICE MasterClasses and the new Particle Therapy MasterClass*, Lukasz Graczykowski, IPPOG Associate
- *The IPPOG Resource Database – Making Particle Physics Outreach & Education Available Worldwide*, Marzena Lapka, CMS IPPOG Rep



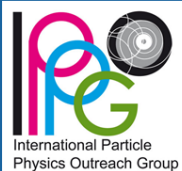


# IPPOG In Conferences



CHEP 2019





## 18th IPPOG meeting, CERN

28-30 November 2019  
CERN  
Europe/Berlin timezone

Search...

Overview

Timetable

Registration

Participant List

Accommodation

IPPOG community  
manager

✉ claudia.marcelloni@cern...

### 18th IPPOG meeting at CERN

Our next IPPOG collaboration meeting will take place from 28 to 30 of November 2019 at CERN.

**Please note that on the first day the Open Session starting at 13:30 will take place at the conference room at point 01 at the ATLAS site behind the Globe. If you don't know where it is meet Claudia/Steve at the CERN reception at 13:00! On the subsequent days we will be back to Charpak.**

#### ACCESS TO CONFERENCE ROOM THURSDAY!!!

Note that the Open Session on Thursday will take place at the conference room at point 01. There is construction going on at the site so you need to get through level one by the outside stairs. If you are not sure where the conference is or how to get there, then plan to meet Claudia/Steve at the CERN reception around 13:00 to walk over to point 01 together.

#### ACCESS CARDS TO CERN:

IMPORTANT, in order to enter CERN you now need a valid access card. Here is how to obtain one or renew yours:

1) if all you need is access to the site only during the length of the IPPOG conference, then please contact claudia.marcelloni@cern.ch who will create a VISITORS CARD for you to be picked up at the CERN MAIN RECEPTION at BUILDING 33 during working hours.

OR

2) if you need to have access to CERN or CERN services, such as INDICO, throughout the year, then please contact Anita.Bens@cern.ch who will be able to register you on the CERN database as an external and provide you with an access card of one year validity. Once at CERN you will need to pass by BUILDING 55 by ENTRANCE B during working hours to obtain your card.

## Agenda

<https://indico.cern.ch/e/ippog18>

### Thursday

- MC Steering Group Meeting
- Introductory Masterclasses for IPPOGers and CERNois
- Open Session
- Dinner (Meyrinoise)

### Friday

- Working Group Sessions
- Group Picture
- Lunch
- Plenary Session
- Panel Discussion (Expanding Borders)
- Working Group Reports
- Collaboration Matters
- Dinner (Edelweiss)

### Saturday

- Collaboration Board

# Working Groups

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## First Breakout Session

### Exhibits & Exhibitions

- 60/6-015 (Charpak)
- Conveners: **Hans Peter Beck, Steven Goldfarb**

### Explaining Particle Physics Hot Topics to a Lay Audience

- Building 4/3-001
- Conveners: **Dirk Ryckbosch, Thomas Naumann**

## Second Breakout Session

### Expanding Masterclasses to New Countries

- 60/6-01 (Charpak)
- Conveners: **Ken Cecire, Uta Bilow**

### Outreach of Applications for Society

- Building 4/3-001
- Convener: **Yiota Foka**

# Discussion Panel

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## Expanding Borders

*How do we as a collaboration want to grow, both geographically, and in terms of scientific focus? The focus will be on strategic growth.*

## Participants

- **Emmanuel Tsesmelis**, Head of Relations with Associate Members and Non-Member States, CERN
- **Gabriel-Elisabeth (Sissy) Körner**, Scientific Secretary, NuPECC
- **Teresa Montaruli**, General Assembly Chair, APPEC
- **Nicolas Arnaud**, Co-Founder, IGRAV
- **Hans Peter Beck**, IPPOG Chair
- **Steven Goldfarb**, IPPOG Chair



# CB Discussions & Votes

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## Points for Discussion during Saturday Collaboration Board

- Election of Chair(s) (Vote)
- Candidate Countries (Vote)
- Associate Member Status for National Organizations (Vote)
  - GSI Associate Membership (Vote)
- External Financial Contributions (Vote)
- Budget Proposal for 2020 (Endorsement)
- Next IPPOG Meeting Venue (Vote)

# Welcome Back CAEN

**CAEN**  
Tools for Discovery

ABOUT US PRODUCTS SUPPORT DOWNLOAD QUOTE LOGIN

CAEN GROUP

Educational Firmware/Software Modular Pulse Processing Electronics Power Supply Powered Crates Weeroc products

## Handbook 2018

Nuclear & Particle Physics Experiments

Several Educational Notes are provided and continuously developed for covering different Physics topics and helping the tutor in exploiting the advanced capabilities of the kits

### Educational Kits & Experiments

A modern, digital and flexible platform developed by CAEN for teaching the fundamentals of Statistics & Nuclear and Modern Physics

#### Educational Kits

This page is dedicated to a short description of the advanced instrumentations developed by CAEN and used to perform the experiments...

#### Educational Experiments

A wide range of modern physics experiments for University advanced labs based on the latest technologies and instrumentation

#### Published Papers

Collection of papers published on high level Scientific Journals

## Welcome

- Giovanni Di Maio
- Ferdinando Giordano
- Cristina Mattone
- Nico von Düring

## Participation

- Exhibitions during coffee breaks
- Presentation, Fri 14:00  
“CAEN Educational: Tools for the young minds!”

# Housekeeping

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## Notes from Claudia:

- **Meeting rooms:** Tomorrow afternoon and Saturday morning meeting is at **Charpak!**
- **WIFI** - instructions on the INDICO homepage
- **Portraits** - Everyone is invited to the group photo downstairs by the big background in front of UBS. Claudia will send a message for those who need to take a portrait for the website with instructions on the location
- **RESTAURANT TONIGHT** - at your own expenses
- **LUNCH TOMORROW** - at CERN cafeteria at your own expenses
- **RESTAURANT FRIDAY** - offered by CERN, dinner at Edelweiss will be fondue if you have a problem with that talk to Claudia today
- **PRESENTATIONS** - keep track of time and make sure you have a summary with key points in the last slide