

IPPOG update (I. Melo)



13th IPPOG Meeting, Lisbon, 20-22 April 2017

Hans Peter Beck: IPPOG Co-chair, Bern University
Steve Goldfarb: IPPOG Co-chair, Melbourne



IPPOG an established Collaboration

<http://ippog.org>

December 19, 2016

Marks the birthday of IPPOG entering a new phase in its 20 years history from EPPOG (1997) to IPPOG (2010) and to the IPPOG Collaboration (2016).

The 10th signatory of the MoU has signed on December 19, 2016, which, according to the MoU defines the entry into force of the MoU and thus the birth of the IPPOG Collaboration.



	Organization	Country/Lab/Experiment	Date signed
1	NIKHEF	The Netherlands	22 September 2016
2	DESY for KET	Germany	23 September 2016
3	Physics Department of University of Oslo	Norway	21 October 2016
4	LIP	Portugal	1 November 2016
5	The Section for Elementary Particle and Astroparticle Physics of the Swedish Physical Society through the Swedish LHC Consortium	Sweden	1 November 2016
6	CHIPP	Switzerland	4 November 2016
7	Ministry of Education, Science, Research and Sport	Slovak Republic	15 November 2016
8	Institute of Atomic Physics	Romania	17 November 2016
9	Helsinki Institute of Physics	Finland	29 November 2016
10	FWO + F.R.S.-FNRS	Belgium	30 November 2016
11	CERN	CERN	19 December 2016
12	INFN	Italy	21 December 2016
13	CNRS/IN2P3	France	23 December 2016
14	The Henryk Niewodniczański Institute of Nuclear Physics Polish Academy of Sciences	Poland	29 December 2016
15	CoEPP	Australia	14 February 2017
16	The University of Notre Dame on behalf of Quarknet	USA	14 March 2017

IPPOG Candidate Members

Austria, Bulgaria, Czech Republic, Denmark, Greece, Ireland,
Israel, Spain, South Africa, UK

ATLAS, ALICE, CMS, LHCb, TOTEM

DESY (as representing itself as a lab)

3.6 Current IPPOG participants shall join the IPPOG Collaboration as Candidates through the mechanism set out above in the course of a two-year period from the date of entry into force of this MoU. This period may be prolonged by a decision of the Collaboration Board where justified by exceptional circumstances. During this period, they shall have the status of “Candidate” with the same rights and obligations as Members, except as provided otherwise in this MoU.

3.8 Candidates shall have no voting rights and no annual membership fees shall be due.

IPPOG Working Groups discussions

In parallel with

Science March Strategy & Poster Making Workshop

Thursday 12:30 – 15:00 (Fingerfood Lunch)

□ Explaining hot PP topics to lay audience

Angelos Alexopoulos, Barbora Bruant Gulejova, Beatrice Bressan, Catarina Espirito Santo, Celso Martinez Rivero, **Dirk Ryckbosch**, **Farid Ould-Saada**, Gabriel Stoicea, Hans Peter Beck, Ivan Melo, Jiri Rames, Jon-Ivar Skullerud, Panja Luukka, Peter Watkins, Rasmus Mackeprang, Steven Goldfarb

□ Masterclasses in new countries

Angelos Alexopoulos, Beatrice Bressan, Catarina Espirito Santo, Celso Martinez Rivero, Gabriel Stoicea, **Kate Shaw**, **Kenneth William Cecire**, Marzena Lapka, Natascha Krammer, Pedro Abreu, Rasmus Mackeprang, Steven Goldfarb, **Uta Bilow**

□ Publications and Speakers Committee

Angelos Alexopoulos, Beatrice Bressan, Celso Martinez Rivero, Christine Kourkoumelis, Despina Hatzifotiadou, **Farid Ould-Saada**, Gabriel Stoicea, Ivan Melo, Marge Bardeen, Panja Luukka, **Pedro Abreu**, Peter Watkins, Rasmus Mackeprang, Steven Goldfarb, Yiota Foka

Panel Preparations

Friday 11:00-13:00

□ 11:00-12:00 Exhibitions and Event Highlights

Angelos Alexopoulos, Catarina Espirito Santo, **Catia Peduto**, Celso Martinez Rivero, Charles Timmermans, Christine Kourkouvelis, Despina Hatzifotiadou, Katarina Anthony, Kenneth William Cecire, Marge Bardeen, **Nicolas Arnaud**, Panja Luukka, Peter Watkins

□ 11:00-12:00 Impact of Science on Society

Barbora Bruant Gulejova, Beatrice Bressan, Dirk Ryckbosch, Farid Ould-Saada, Gabriel Stoicea, Hans Peter Beck, **Ivan Melo**, Jon-Ivar Skullerud, Kate Shaw, Marzena Lapka, Natascha Krammer, **Pedro Abreu**, Rasmus Mackeprang, Steven Goldfarb, Uta Bilow, Yiota Foka

□ 12:00-13:00 Reaching to New Audiences / Non-conventional Methods

Angelos Alexopoulos, Beatrice Bressan, Catia Peduto, Dirk Ryckbosch, Gabriel Stoicea, Hans Peter Beck, **Jon-Ivar Skullerud**, Kate Shaw, Marzena Lapka, Pedro Abreu, Steven Goldfarb, Yiota Foka

□ 12:00- 13:00 Impact on Educational Programs for Students and Teachers

Barbora Bruant Gulejova, Catarina Espirito Santo, Celso Martinez Rivero, Charles Timmermans, Christine Kourkouvelis, Despina Hatzifotiadou, Farid Ould-Saada, Ivan Melo, Katarina Anthony, Kenneth William Cecire, **Marge Bardeen**, Nicolas Arnaud, Panja Luukka, Peter Watkins, **Rasmus Mackeprang**, Uta Bilow

Panel: IMPACT of Science on Society

Divided in two subgroups:

- How to justify public funding of science
- How to convey impact of Particle Physics in Society

Sources of Science funding

US example: Before 1945 research was funded by **industry and philanthropy**.

In 1950, President Harry Truman created the National Science Foundation. For 55 years **federal funding** expanded. In 2006 expansion stopped.

Industry is focused on applied research that will result in the development of products with immediate commercial application

CERN brochure on impact of science

CERN brochure is a good starting point

CERN has observer status at UN – global voice of science

CERN brochure is CERN oriented, we need local examples

STFC (UK) have similar brochure like CERN (research, innovation, skills):

<https://cloud.3dissue.com/105010/105392/123464/ImpactReport2015final/index.html>

It is important to stress spinoffs, technology, but **cultural aspect** must be there

How to communicate to policy/decision makers?

Events with decision makers in Germany and Portugal

Politicians want to be part of prestigious things.

We need more sentences which capture imagination like

R.R. Wilson: "PP will do nothing directly to defend our country except to help make it worth defending."

F. Gianotti: "CERN is a concrete example of worldwide, international cooperation and a concrete example of peace. The place which makes, in my opinion, better scientists, but also better people"

Should we be reactive or proactive?

Use events which make headlines

Use opportunities such as International Cancer Day (or Hadron therapy event in Norway) which make headlines to bring PP into spotlight and show its role.

CERN Alumni program – people trained at CERN start successful business – invite them as an example to IPPOG together with a person from funding agency

Impact of PP in Society

- keep the young curious (in whatever they'll like to do in the future)
- Passion in science, scientific way of thinking, change mindsets and push for new ideas/processes, convey creativity in science, think out of the box,...
- Impact on teachers (and motivate them to go further)

Impact of PP in Society - To Do List

- **summary** of ideas/sentences/activities to show possible future outreachers that what they'll do will have impact
- **summary** of convincingly specific impacts of PP in Society (PET Scanners, WWW, Hadron therapy, Int'l Coll., Peace...Start with CERN brochure/add local examples.
- **Ambassadors** concept (key people "nominated" as special ambassadors of PP)

March for Science in Lisbon on Apr 22

~ 500 people including Minister of Science, well organized with drummers, chants, witty posters, cheerful marchers.