

11th Meeting of the IUPAP Working Group on Accelerator Science (WG14)

December 20, 2022, 14:00 – 16:00 CET

Virtual Meeting

Attendees: Gianluigi Arduini, Maher Attal, Bob Bingham, Mark Boland (invited), Yunhai Cai, Simon Connell, Christine Darve (invited), Stuart Henderson, Oliver Kester, Mats Lindroos, Nikolai Lobanov, Michael Moyers, Sekazi Mtingwa, Simon Mullins, Qing Qin, Lenny Rivkin, Thomas Roser, Bridinette Sendja, Aliz Simon, Liangting Sun.

Excused: Swapan Chattopadhyay, Sylvie Jacquemot, Tadashi Koseki, Liu Lin, Mike Seidel, Suzie Sheehy, Minh Quang Tran, Alessia Valenza

Agenda and slides available at [11th WG14 meeting \(20 December 2022\) · Indico \(cern.ch\)](https://indico.cern.ch/event/1230800/contributions/5179104/attachments/2569947/4431440/Meeting_20221220_Agenda%26Follow-up%20of%20actions_aspresented.pptx)

Topic 1: Agenda, Minutes and Follow-up of actions (see slides: https://indico.cern.ch/event/1230800/contributions/5179104/attachments/2569947/4431440/Meeting_20221220_Agenda%26Follow-up%20of%20actions_aspresented.pptx) - G. Arduini

The draft minutes of the previous meeting are approved.

Follow-up of actions:

1. Publications: WG14 should provide a position statement and a plan of action. Caterina (lead), Di-Jing, Gianluigi, Nikolay, Oliver will address this. **Action: Caterina, Di-Jing, Gianluigi, Nikolay, Oliver. Lin will report on the discussions at the last JACoW stakeholders' meeting at the next WG14 meeting. Lin could not attend the meeting and she will report at the next WG14 meeting.**
2. IPAC as WG14 Conference and IPAC MoU. **Action: Gianluigi (lead), Caterina, Lenny, Lia, Lin, Tadashi to resume the discussions → not able to find a slot with people available. Do we consider this a high priority subject? If yes, Volunteers to help?**
3. M. Lindroos believes that the majority of the students of the Lund University MOOC (3000 so far with 1000 getting a formal degree) are from developing countries. He will provide some more information for the next meeting. **Action: Mats. C. Darve will report at the next meeting (see Topic 2)**
4. Communication (Web site, etc.). **Action: WG members to pro-actively contribute to the content of the web page.**
5. Schools and workshops can be co-sponsored by IUPAP WG.14. **Action: all WG members to propose schools/workshops for endorsement/sponsoring by IUPAP WG14. Sekazi mentioned the upcoming ICTP Synchrotron Light Source School (23 January – 4 February 2023). He will contact Rudzani Nemutudi from IUPAP to ask for endorsement for the school.**
6. Nikolai will send some information concerning talks on accelerators. **Action: Nikolai. Done. Information being added on the web page.**
7. WG14 could contribute to define an accelerator session at the next PTCOG meeting. Michael to liaise with the other members of the WG14 members and PTCOG. **Action: Michael. A talk on recent developments for accelerators for therapy and radiobiological studies, also mentioning**

the activity of WG14, is going to be submitted. Bob Bingham will circulate an abstract within the WG in the next days.

8. Liangting volunteered to provide an article on activities in Accelerator Science in China for the IUPAP WG14 website. **Action: Liangting. Liangting will send an article by the end of January 2023.**

Topic 3: Nordic Accelerator School MOOC (see slides: https://indico.cern.ch/event/1230800/contributions/5182883/attachments/2570031/4431413/Darve_IUPAP_WG14_NPAP_20Dec22.pptx) – C. Darve

Christine gave an excellent overview of the Nordic Particle Accelerator Project (NPAP) and other teaching activities. The MOOC course is available as part of Coursera, it is free and a certificate attesting the successful attendance of the course is provided for a very limited fee. The course has been followed by more than 15000 students in more than 100 countries. Christine presented in addition a series of educational initiatives in which she is involved.

Bridinette mentioned that many of these initiatives are not known in Africa. Christine pointed to several of the links available in the presentation and Bridinette will spread the information in Cameroun and other African countries. Gianluigi added that the IUPAP-WG14 web page (<https://iupap-wg14.web.cern.ch>) has a link to the Nordic Accelerator School MOOC. Bridinette mentioned that poor internet connectivity is also an issue for the students.

Mats noted that the Nordic Accelerator School MOOC is part of the extended curriculum in Nuclear Physics at Lund University. Several European scientists (in particular from Nordic countries) have contributed to the MOOC.

Nikolai asked whether students could enroll any time the course. Christine replied in the affirmative.

In the future interactions between students and teachers will be possible (this is not the case today)

Topic 4: International Accelerator School (see slides: <https://indico.cern.ch/event/1230800/contributions/5182884/attachments/2569852/4431075/IAS%20Presentation%20for%20IUPAP%20WG%20Meeting%20December%202022.pdf>) – M. Boland

Mark introduced the International Accelerator School (IAS - formerly called Joint Accelerator School) that was created in a collaborative effort of the CERN Accelerator School, US Particle Accelerator School, etc. The school fits with the mandate of IUPAP WG14. WG14 could mandate an IAS Coordination Committee aiming at guaranteeing continuity of the school and establish the contacts for the organization of the school in different areas similarly to what the IPAC Coordination Committee does for IPAC.

Thomas asked whether it is planned to have courses in person. Mark replied that it is planned to have the next course on Superconducting Science and Technology for Particle Accelerators (<https://indico.lightsource.ca/event/6/>) will take place in person but the possibility of hybrid participation or remote participation could be envisaged for future schools depending on the subject.

Lenny asked whether the CERN Accelerator School and the US Particle Accelerator School support the proposal. Mark replied that his proposal has been discussed with and supported by the directors of the two schools.

The participants supported the proposal by Mark. Bridinette, Christine, Liangting and Maher volunteered to participate to the IAS coordination committee.

Topic 5: Future Meetings

Next meetings are tentatively scheduled on:

- February (week starting February 20) - Zoom
- May (week starting May 8) - in person at IPAC'23

Gianluigi will organize doodle polls

Notes written by Gianluigi Arduini (20/12/2022)

List of pending actions:

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