



AWAKE Technical Board

Edda Gschwendtner, CERN
19 November 2019

Matters Arising

- Regular Run 2 meetings
 - will be taken up again after the Intermediate Review on 28 November 2019.
 - Latest progress shown in today's meeting
 - Dedicated meetings with RP, STI, EA on CNGS dismantling from January (Ans)
- Resumption of simulation meetings, starting this week
 - John Farmer will coordinate the meetings
- Three more weeks of the experiment in the AWAKE facility now
 - Plasma/laser studies
 - DAQ updates

36th AWAKE Technical Board



Tuesday 19 Nov 2019, 10:00 → 12:00 Europe/Zurich

530/R-030 - EN-EA Conference Room (CERN)

Videoconference
Rooms



36th_AWAKE_Technical_Board

Join



10:00 → 10:20 **Introduction and Matters Arising**

Speaker: Edda Gschwendtner (CERN)

🕒 20m



10:25 → 10:40 **Bunch length measurement in Summer run**

Speaker: Seongyeol Kim (Ulsan National Institute of Science and Technology)

🕒 15m



10:45 → 11:00 **Rb vapour source for Run 2**

Speaker: Jan Pucek



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🕒 15m



11:05 → 11:20 **Electron line design for Run 2**

Speaker: Rebecca Louise Ramjiawan (University of Oxford (GB))

🕒 15m



11:25 → 11:40 **AOB**

🕒 15m



AWAKE Run 2 Preparation

- AWAKE Run 2 in the MTP:
 - 10 MCHF between 2020 – 2024 (3 MCHF for Run 2 studies 2019 – 2021)
 - 16 MCHF between 2020 – 2029
- Not enough to fully fund AWAKE Run 2 before LS3.
- However, extra funding in case strong statement about PWA in ESPP document and once we have a detailed design and cost estimate?
→ we need to prepare a sound baseline design and have a **cost and schedule review in 2020!**

AWAKE (Intermediate) Project Review

- Thursday 28 November 2019
- **Panel members:**
 - Mike Lamont (chair) (BE), Roberto Corsini (BE), Elena Shaposhnikova (BE), Rhodri Jones (BE), Simone Gilardoni (EN), Roberto Kersevan (TE), Stefan Roesler (HSE).
- **Mandate:**

While the SPSC reviews the physics case of the AWAKE experiment in the October 2019 session, the Review Panel are asked to assess whether:

 - **The project management structure and the different roles and responsibilities in the various CERN groups and collaborating institutes are well defined.**
 - **The milestones and timescale for the study phase in preparation of the Cost and Schedule Review 2020 are properly defined and the corresponding CERN resources estimated.**
 - **The origin of potential external resources for the study phase is well defined. (e.g. CLIC X-band equipment, collaboration in-kind contributions, etc.).**
 - **The AWAKE Run 2 baseline concept can cover the critical aspects of the physics program as presented to the SPSC together with a prioritization of these critical aspects.**

AWAKE Review

Thursday 28 Nov 2019, 09:00 → 18:00 Europe/Zurich

09:00	→ 09:15	The AWAKE project Speaker: Edda Gschwendtner (CERN)	🕒 15m	📄
09:20	→ 09:35	AWAKE Run 2 Program and Motivation Speaker: Allen Caldwell (Max-Planck-Institut für Physik (DE))	🕒 15m	📄
09:40	→ 09:50	Electron source Speaker: Steffen Doebert (CERN)	🕒 10m	📄
09:55	→ 10:05	Beam lines Speaker: Francesco Maria Velotti (CERN)	🕒 10m	📄
10:10	→ 10:20	Discussion	🕒 10m	📄
10:20	→ 10:40	Coffee/Tea	🕒 20m	
10:40	→ 10:50	Laser system Speaker: Valentine Fedosseev (CERN)	🕒 10m	📄
10:55	→ 11:05	Diagnostics Speaker: Stefano Mazzoni (CERN)	🕒 10m	📄
11:10	→ 11:20	Rb vapour source Speaker: Patric Muggli (Max Planck Institute for Physics)	🕒 10m	📄
11:25	→ 11:35	Integration Speaker: Ans Pardons (CERN)	🕒 10m	📄
11:40	→ 11:50	Plasma cell R&D Speaker: Alban Sublet (CERN)	🕒 10m	📄
11:55	→ 12:15	Discussion	🕒 20m	📄
12:15	→ 13:30	Lunch Reviewers' lunch is provided in 6-2-008	🕒 1h 15m	
13:30	→ 16:00	Closed session: Review panel member session	🕒 2h 30m	📄
16:00	→ 16:15	Coffee/Tea	🕒 15m	
16:15	→ 17:00	Close-out: Presentation of conclusions and recommendations by panel members	🕒 45m	📄

AWAKE Review

- Focus on Study Phase
- We are not showing any schedule/costing for Run 2, as this is the subject of the study.
- Instead we focus on the milestones for the studies during 2019/20 in order to come up with details for the cost and schedule review.

- Punch line:
- We plan for having electron acceleration before LS3.
- Now the study is: what are the additional resources to achieve this goal.
- What is the corresponding schedule.
- Are there any show stoppers?
- Are there any critical issues?

General Planning

→ CERN Management meeting end of November to discuss LS3 dates

