



Overview of the: PULSED POWER for KICKER SYSTEMS 2018 workshop

12–13 March 2018, CERN, Geneva, Switzerland

<https://indico.cern.ch/event/682148>



International Organising Committee:

Patrick Alexandre SOLEIL
Mike Barnes CERN
Marc Dubrulle ESRF
Olaf Dressler BESSY-II
Laurent Ducimetière CERN
Thomas Kramer CERN
Martin Paraliev PSI
Montse Pont ALBA
Jonny Ranner STFC
Piergiorgio Tosolini ELETTRA

Local Organisation Committee

Janne Holma (Technical Chair)
Lucie Mainoli (Local organisation)
Miroslav Georgiev Atanasov (Visit)
Christoph Wiesner (Visit)

Many Thanks to:



CERN and especially to the management of the **Technology Department** for all their support during the organization, preparation and running of the workshop.

Workshop sponsors:



ARIES: Accelerator Research and Innovation for European Science and Society

ARIES is an Integrating Activity project which aims to develop European particle accelerator infrastructures, co-funded under the European Commission's Horizon 2020 Research and Innovation programme.

<https://aries.web.cern.ch/>



FCC: Future Circular Collider

FCC is an international collaboration to explore concepts for the most powerful particle collider and develop enabling technologies.

<https://fcc.web.cern.ch/Pages/default.aspx>

A Few Statistics

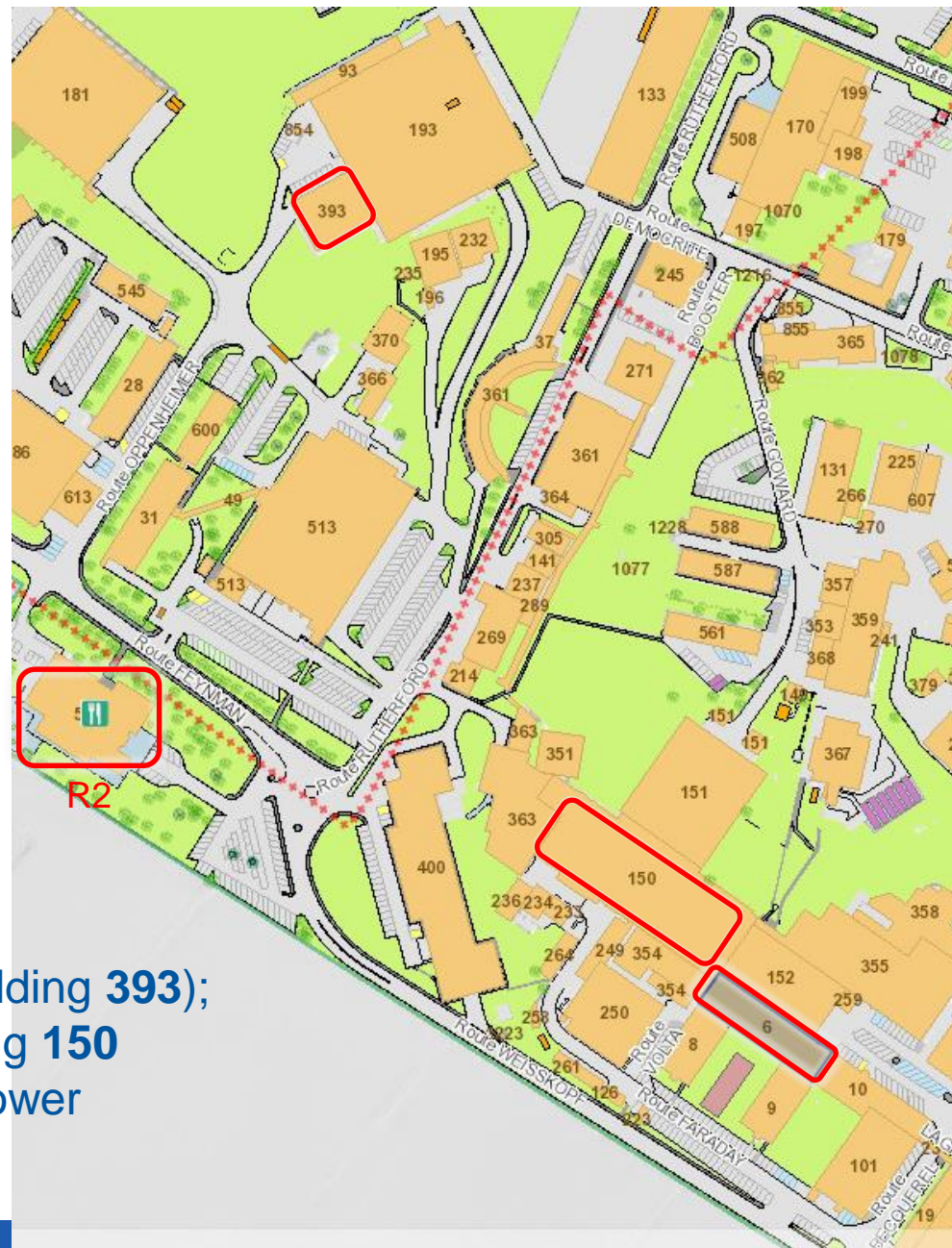
- ✓ Forty participants;
- ✓ Representing **14 labs/institutes** in **9 countries**:
 - ✓ ALBA, Spain
 - ✓ CERN, Switzerland
 - ✓ DESY, Germany
 - ✓ Diamond, UK
 - ✓ Elettra Sincrotrone, Italy
 - ✓ ESRF, France
 - ✓ Fermilab, USA
 - ✓ GSI, Germany
 - ✓ HZB, Germany
 - ✓ Institute of Electrophysics, Russia
 - ✓ ISEL, Portugal
 - ✓ PSI, Switzerland
 - ✓ Soleil, France
 - ✓ STFC, UK

Logistics - 1

- Coffee Breaks: outside this room;
- Lunch: Restaurant 2. Self-service (self-pay !). **Reserved table(s) for workshop;**
- Group photograph: TBD

Visit: meet at

- 9:00hrs in AD (in front of new building **393**);
- 10:00hrs (LEIR) in front of building **150** (transport entrance next to the power converters).



Logistics - 2



Workshop dinner (SMASH Restaurant, Chemin de la Berne 5, Meyrin)

Egroup / Mailing List

Egroup: *PULPOKS-participants@cern.ch*

- Self-subscription policy for this egroup (mailing list), with administrator approval.
- Subscriber can send questions or interesting information.
- Idea is similar to the “*POCPA-participants*” mailing list, e.g. to be able to also request unbiased information on commercial products.

Workshop Overview

	Session Title	Session Chair
Monday 12th March		
Welcome (20mins) - 8h30		
Introduction - 8h50 to 10h00 Volunteers: up to 3-4 min (1 slide/min) to introduce themselves & their labs, and interesting projects	Introduction (1hr10m)	
Coffee: 10:00 - 10:30		
Session 1 - 10h30 to 12h00	Valve switches (1h30m)	Laurent Ducimetiere
Lunch: 12:00 - 13:30		
Session 2 - 13h30 to 14h30	HV cables, connectors and feedthroughs (1hr)	Jonny Ranner
Session 3 - 14h30 to 15h00	Triggering (0.5hr)	Piergiorgio Tosolini
Coffee Break: 15:00 - 15:30		
Session 4 - 15h30 to 17h30	Pulsed measurements and online monitoring and analysis (2hr00m)	Etienne Carlier
Workshop Dinner - 19h30 - 22:00		
SMASH Restaurant		
Tuesday 13th March		
Session 5 - 8h30 to 11h30	Solid state switches and modulators (2hr30m)	Mike Barnes
Coffee Break: 10:10 - 10:40		
Session 6 - 11h30 to 11h55	Modelling software and simulation (50m)	Martin Paraliiev
Lunch: 11:55 - 13:20		
Session 7 - 13h45 to 15h55	Kicker Systems and Magnets Materials (1hr40m)	Montse Pont
Coffee Break: 15:00 - 15:30		
Session 8 - 15h55 to 16h45	Impedance shielding / Coatings (50m)	Marc Dubrulle
Wrap-up (15min) - 16h45 to 17h30 (can continue if some attendees are interested)		
Note: Circuit 4 - Meyrin - Airport Departs at 17:00hrs from Building 500 (~15mins to airport)		
Wednesday 14th March		
9:00hrs in AD (in front of the new building 393);		
10:00hrs in front of building 150 (transport entrance next to the power converters)		

I'm looking forward to an interesting workshop - with much discussion.

Thank you for your attention !