



23rd IEEE Real Time Conference
Aug 1 – 5, 2022 • via Zoom

Real Time 2022 - Welcome

David Abbott – CANPS Chair

Real Time – Virtual 2.0

Seems like this pandemic is lasting VIRTUALLY forever...

- We made the difficult decision back in December to postpone in-person once more.
 - It seems perhaps the best decision after all.
 - However, we are smaller this year compared to past RT conferences.
- **Regional breakdown:** 58% Asia/Pacific, 30% Europe, 12% North America
 - Participation is spanning 16 time-zones.
- **In the spirit of traditional Real Time we plan to embrace the opportunity.**
 - Fully interactive Zoom plenary sessions
 - Live mini-oral presentations in the plenary program
 - Browser-based interactive poster sessions each day using **oVice**
- **Welcome everyone who have chosen to participate this week – Thank you!**

Daily Sessions

Monday-Thursday + Friday

- ▶ Each day will start at the same time - **GMT 11:00**
 - Early Plenary (Mon-Fri)
 - Mini-Oral Plenary (Mon-Thurs)
 - Poster Session (Mon-Thurs)
 - Late Plenary (Mon-Fri)
- ▶ Posters will stay up for two sessions
 - Monday/Tuesday (Posters A&B)
 - Wednesday/Thursday (Posters C&D)
- ▶ Awards Presentations
 - CANPS Award and Talk (Thurs Late-Plenary)
 - Student Paper Awards (Friday Late-Plenary)

Early Plenary	07:00	Welcome	07:00 - 07:30
	08:00	Neutron Single Event Effects In Advanced Micro-Nano-Electronics - Tests Standards And Applications In Avionics, In Physics Or Fusion Research and Radiotherapy Facilities <i>Jean-Luc Leray</i>	07:30 - 08:15
		System Design and Prototyping for the CMS Level-1 Trigger at the High-Luminosity LHC <i>Piyush Kumar</i>	08:15 - 08:35
		Timing reference distribution in CMS IRPC time measurement <i>Jianing Song</i>	08:35 - 08:55
09:00	Commissioning and operation of the upgraded Belle II DAQ system with PCI-express-based high-speed readout <i>Dr Yun-Tsung Lai</i>		
	ZeroMQ Based Online ROOT-Output Storage and Express-Reconstruction System for the Belle II Experiment <i>Seokhee Park</i>		
Mini-Orals	10:00	Mini Oral - I	
	09:35 - 10:20	Poster Session - A	
Late Plenary	11:00	Preliminary Design of CDEX-100 DAQ Architecture <i>Jingjun Wen</i>	11:00 - 11:20
		The SABRE South Data Acquisition System <i>Matthew Gerathy</i>	11:20 - 11:40
		A temperature calibration method using dynamic energy windows for the online blood radioactivity meter <i>Ms Huifan Qu</i>	11:40 - 12:00
	12:00	Automatic recovery system in the Belle II operation <i>Takuto Kunigo</i>	12:00 - 12:20

Zoom Basics

Hopefully we are all familiar with the fundamentals by now

▣ Generally

- Mute microphone
- No Video

▣ Questions?

- Raise Hand
- or Chat box

▣ Presenters

- Share Desktop
- or ask Zoom Host to control slides.

▣ Session Chairs

- Introductions
- 5 min warnings

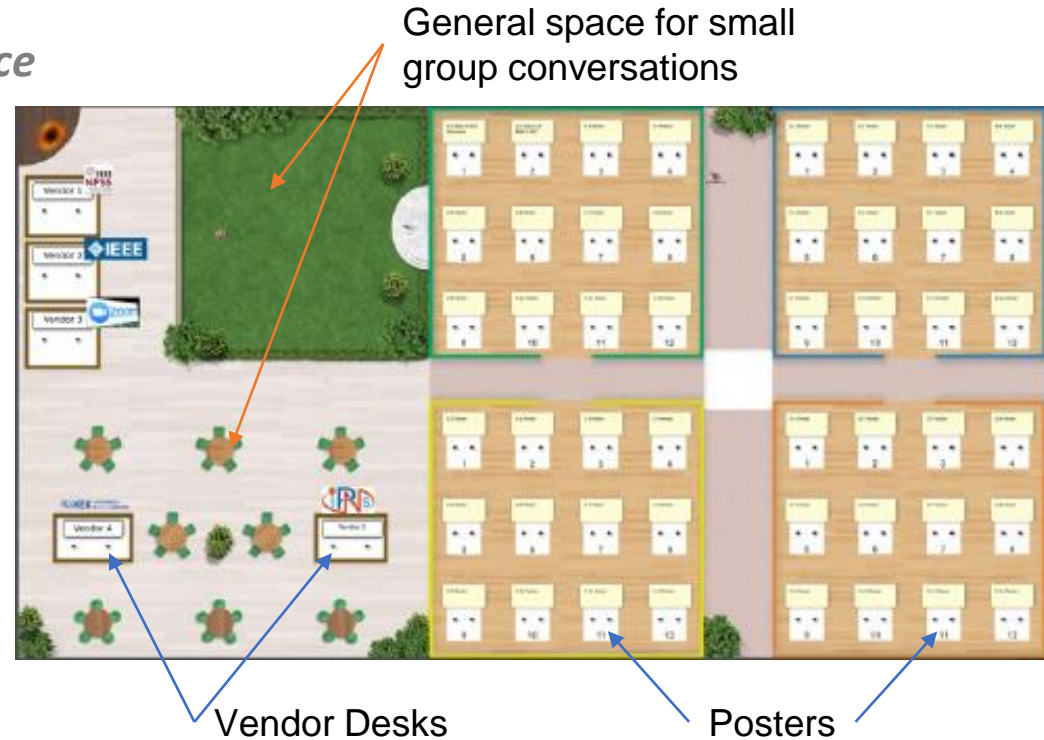


Poster Sessions

Using the Interactive Virtual Space oVice

- ▶ <https://rt2022.ovice.in>
- ▶ Instructions and password can be found on the conference website.
- ▶ This space will be accessible for the whole conference (24hrs/day).

Hint: to “move” your avatar, just search the space and then double-click where you want to be.



Making Real Time Possible

CANPS, NPSS and IEEE

- ▶ **Computer Applications in Nuclear and Plasma Sciences (CANPS)**
 - Technical committee of the NPSS Society of IEEE
 - Approximately 45 members total (10 member Executive Committee)
- ▶ **CANPS ExCom takes a leadership role with respect to:**
 - Real Time Conference organization/decisions
 - Approval for new CANPS General membership
 - Representation in NPSS/AdCom
- ▶ **CANPS General Membership acts in a scientific advisory capacity.**
 - Recommendations/Nominations to ExCom for Real Time and CANPS Award
 - Reviewing for the RTC scientific program and voting for CANPS Award
 - Advocate in their scientific communities for participation in RTC and NPSS/IEEE

CANPS Executive Committee

[David Abbott](#) (CANPS Chair, Jefferson Lab)

[Martin Grossmann](#) (General Chair, PSI)

[Pierre-André Amaudruz](#) (Program Chair, TRIUMF)

[Adriano Luchetta](#) (Senior Editor, Universita di Padova)

[Ryosuke Ito](#) (KEK)

[Martin Purschke](#) (BNL)

[Patrick Le Dû](#) (CEA retired)

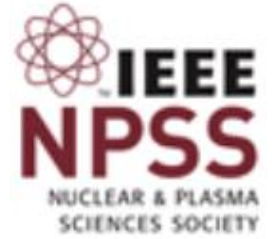
[Zhen-An Liu](#) (IHEP)

[Masaharu Nomachi](#) (Osaka University)

[Keith Erickson](#) (PPPL)

Nuclear and Plasma Sciences Society (NPSS)

Are you interested in getting more involved?



- ▶ NPSS supports:
 - 8 technical committees (including CANPS)
 - 4 technical Publications (including Transactions in Nuclear Science)
 - Programs for Students, Women In Engineering (WIE), Young Professionals

- ▶ Consider joining IEEE and NPSS while at the conference.
 - Information can be found on the website and virtual poster session
 - Special deals for 2022 Memberships

- ▶ Want more info on joining the CANPS General Committee?
 - Find a CANPS ExCom member and strike up a conversation

- ▶ Option for publication in a special Real Time Conference issue of TNS
 - TNS Senior Editor – Adriano Luchetta – will provide details