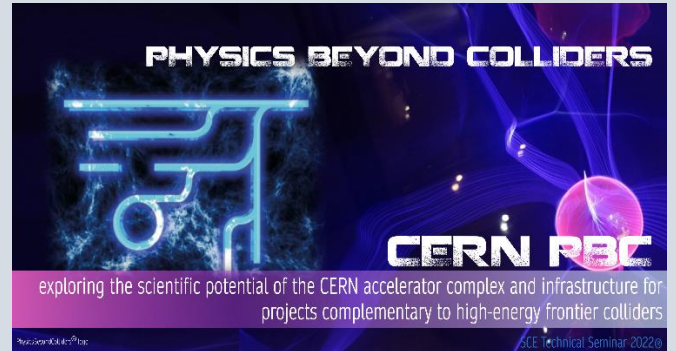


## SCE Technical Seminar : Physics Beyond Colliders (PBC).

The PBC Study was launched in 2016 by the CERN Management to explore the possibilities of exploiting the full potential of CERN's accelerator complex via projects complementary to collider experiments.

Gianluigi Arduini (BE), John Osborne (SCE) and Kincső Balázs (SCE) will present some of the most interesting scientific aspect of the PBC study, covering some of the formidable civil engineering challenges our Organization is currently planning.



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## Gianluigi ARDUINI

Gianluigi Arduini graduated in Physics at the University of Milan in 1991. After having participated to the design of an accelerator for a Hadron-Therapy Centre for Italy from 1992 to 1995 he has joined CERN as a staff member.

His main activities at CERN have been the operation and the performance improvement of the CERN accelerator complex

He has contributed to the LHC Commissioning and Operation during Run I as Machine Coordinator and to the design of the High Luminosity LHC.

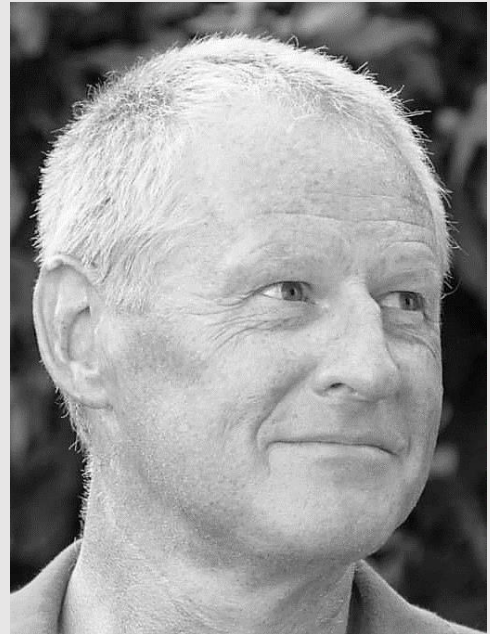
He has been the Head of the Accelerators and Beam Physics group in the Beams Department, and he is currently the Deputy of BE Department Head. He has taken the coordination of accelerator-related aspects in the Physics Beyond Colliders study group in January 2021 (the group is led by [three coordinators](#) representing the scientific communities of accelerator, experimental, and theoretical particle physics).



## **John OSBORNE**

John Osborne graduated from Liverpool University with a civil engineering degree in 1988, before joining CERN he worked mostly on underground projects such as the immersed tube tunnel at Conwy in Wales and the underground metro station extension at Canary Wharf, London. He joined CERN in 1998 to lead the underground and surface works needed to house the LHC detector CMS.

Today John manages a team responsible for civil engineering and infrastructure studies for large scale future physics projects. These include the 100km Future Circular Collider (FCC), the Compact Linear Collider (CLIC), the International Linear Collider (ILC) in Japan and the Physics Beyond collider studies. His section also looks after inspection & monitoring of entire the underground network at CERN. He is now a Fellow of the Institute of Civil Engineers in the UK.



## **Kincsó BALAZS**

Kincsó Balázs is a civil engineer fellow graduated from the Technical University of Cluj-Napoca in 2015. She worked for several years in Romania as a tendering engineer then moved to Switzerland where she worked as a civil engineer in Zurich before joining CERN in 2021. She joined John Osborne's team in SCE department to work on the civil engineering aspects of the future scientific infrastructure studies inside the Physics Beyond Colliders programme.

