



## Closing Remarks

LCWS2021

18 March 2021

### International Advisory Committee:

Ties Behnke (DESY, Germany)  
Ursula Bassler (IN2P3, France)  
Barry Barish (Caltech, USA)  
Pushpa Bhat (FNAL, USA)  
Pierluigi Campana (LNF Frascati, Italy)  
Paul Collier (CERN, Switzerland)  
Dmitri Denisov (BNL, USA)  
Klaus Desch (U. Bonn, Germany)  
Bruce Dunham (SLAC, USA)  
Anne-Isabelle Etievre (Irfu, France)  
Lyn Evans (CERN, Switzerland)  
Brian Foster (Oxford U., UK)  
Fabiola Gianotti (CERN, Switzerland)  
Paul Grannis (SUNY Stony Brook, USA)  
Stuart Henderson (JLAB, USA)  
JoAnne Hewett (SLAC, USA)  
Karl Jakobs (Freiburg U., Germany)  
Sachio Komamiya (Wasada U., Japan)  
Reiner Kruecken (TRIUMF, Canada)  
Pavel Logatchov (BINP Novosibirsk, Russia)  
Joe Lykken (FNAL, USA)  
Joachim Mnich (CERN, Switzerland)  
Abid Patwa (DoE, USA)  
Leonid Rivkin (EPFL Lausanne, Switzerland)  
Michael Roney (U. Victoria, Canada)  
Mark Thomson (STFC, UK)  
Grigory Trubnikov (JINR, Russia)  
Laurent Vacavant (CNRS/IN2P3, France)  
Yifang Wang (IHEP Beijing, China)  
Sakue Yamada (Tokyo U., Japan)  
Satoru Yamashita (Tokyo U., Japan)  
Hitoshi Yamamoto (Tohoku U./IFIC-Valencia, Japan/Spain)  
Masanori Yamauchi (KEK, Japan)  
Antonio Zoccoli (INFN, Italy)

### International Program Committee (IPC):

Alain Bellerive (Carleton U., Canada)  
Sergey Belomestnykh (FNAL, USA)  
Jim Brau (U. Oregon, US)  
Karsten Buesser (DESY, Germany)  
Philip Burrows (Oxford U., UK)  
Nuria Catalan Lasheras (CERN, Switzerland)  
Sarah Eno (Univ. of Maryland, US)  
Keisuke Fujii (KEK, Japan)  
Juan Fuster (IFIC-Valencia, Spain)  
Frank Gaede (DESY, Germany)  
Jie Gao (IHEP Beijing, China)  
Yuanning Gao (Peking U., China)  
Rohini Godbole (IIS Bangalore, India)  
Andy Lankford (UC Irvine, USA)  
Shin Michizono (KEK, Japan)  
Hugh Montgomery (JLAB, USA)  
Hitoshi Murayama (UC Berkeley, USA)  
Kiyotomo Kawagoe (Kyushu U., Japan)  
Laura Monaco (INFN Milano, Italy)  
Tatsuya Nakada (EPFL Lausanne, Switzerland)  
Olivier Napoly (Irfu, France)  
Yasuhiro Okada (KEK, Japan)  
Michael Peskin (SLAC, USA)  
Frank Simon (MPI Munich, Germany)  
Geoff Taylor (Univ. of Melbourne, Australia)  
Junping Tian (Tokyo U., Japan)  
Claude Vallee (IN2P3 / CPPM Marseille, France)  
Andy White (U. Texas/Arlington, USA)  
Marc Winter (IN2P3 / IJCLab, France)  
Akira Yamamoto (KEK, Japan)

### Organising Committee:

Alexia Augier (CERN, Switzerland)  
Grace Fern Jackson (CERN, Switzerland)  
Maria Filippova (CERN, Switzerland)  
Benno List (DESY, Germany)  
Jenny List (DESY, Germany)  
Aidan Robson (U. Glasgow, UK)  
Philipp Roloff (CERN, Switzerland)  
Thomas Sadenius-Schoerner (DESY, Germany)  
Steinar Stapnes (CERN, Switzerland) -- Chair  
Tomohiko Tanabe (IPMU/KEK, Japan)  
Maxim Titov (CEA-Irfu, France)  
Marcel Vos (IFIC-Valencia, Spain)

Big thank you to everyone who made  
this virtual conference possible!



## Accelerator Tracks

### A1: Superconducting RF (SRF) Technology

Conveners: Yasuchika Yamamoto (KEK), Mattia Checchin (FNAL), Marc Wenskat (Hamburg/DESY), Enrico Cenni (CEA-Irfu)

### A2: Sources

Conveners: Masao Kuriki (Hiroshima), Steffen Doebert (CERN), Joe Grames (JLab), Gudrid Moortgat-Pick (Hamburg/DESY)

### A3: Damping Rings, BDS, ATF-3, Dumps:

Conveners: Toshiyuki Okugi (KEK), Nobuhiro Terunuma (KEK), Andrea Latina (CERN), Angeles Faus-Golfe (IJCLab)

### A4: Conventional Facilities and Siting (CFS)

Conveners: John Osborne (CERN), Nobuhiro Terunuma (KEK)

### A5: Advanced & Novel Accelerators (ANA)

Conveners: Philippe Piot (ANL/NIU) - organized by the ICFA/ANA panel

## New Research and Opportunities Track

### N1: Dark Sector, Fixed-Target and Beam Dump Experiments

Conveners: Benno List (DESY), Michael Peskin (SLAC), Matthew Wing (UCL)

### N2: New Technologies & Ideas for Collider Detectors

Conveners: Sarah Eno (Maryland), Philipp Roloff (CERN), Frank Simon (MPP)

### N3: Beams for Accelerator and Detector R&D and Irradiation

Conveners: Mark J. Hogan (SLAC), Yoshihisa Iwashita (Kyoto), Benno List (DESY), Steinar Stapnes (CERN)

## Industry Track

### I1: Industry Session

Conveners: Nuria Catalán Lasheras (CERN), Juan Fuster (IFIC-Valencia), Jie Gao (IHEP), Hugh Montgomery (JLab), Tohru Takahashi (Hiroshima), Maxim Titov (CEA-Irfu), Marc Winter (IJCLab)

# parallel sessions: **51**

# scheduled talks: **292**

**Number of Registrations: ~900**  
(after subtracting double registrations)

## Physics & Detector Tracks

### PD1: Theoretical Developments

Conveners: Nathaniel Craig (UCSB), Roberto Franceschini (INFN/Rome III), Sven Heinemeyer (IFCA-Santander), Shigeki Matsumoto (Kavli IPMU), Jürgen Reuter (DESY)

### PD2: Global Interpretations

Conveners: Stefania Gori (UCSC), Christophe Grojean (DESY/Humboldt), Junping Tian (Tokyo), Dirk Zerwas (IJCLab)

### PD3: Physics Analyses

Conveners: Akimasa Ishikawa (KEK), Roman Pöschl (IJCLab), Chris Potter (Oregon), Filip Žarnecki (Warsaw)

### PD4: Software & Detector Performance

Conveners: Frank Gaede (DESY), Adrian Irles (IFIC-Valencia), Daniel Jeans (DESY), Manqi Ruan (IHEP), André Sailer (CERN), Jan Strube (Oregon/PNNL), Graham Wilson (Kansas)

### PD5: Tracking Detectors

Conveners: Alain Bellerive (Carleton), Dominik Dannheim (CERN), Shinya Narita (Iwate), Marcel Stanitzki (DESY), Ivan Vila (IFCA-Santander)

### PD6: Calorimeters

Conveners: Ivanka Božović-Jelisavčić (VINCA-Belgrade), Katja Krüger (DESY), David Miller (Chicago), Taikan Suehara (Kyushu)

### PD7: MDI

Conveners: Karsten Büßer (DESY), Phil Burrows (Oxford), Tom Markiewicz (SLAC), Yasuhiro Sugimoto (KEK)

# abstracts submitted to PD sessions: **144**





Maria Filippova



Alexia Augier



Grace Fern Jackson

*Thank you!*

Special thanks also to all the  
conveners for handling the large  
number of abstracts & sessions!



# ILC Workshop on Potential Experiments (ILCX)

October 26–29, 2021, Tsukuba, Japan

## ILC Workshop on Potential Experiments (“ILCX”)

**Date:** 26-29 October 2021

**Location:** Tsukuba, Japan

*To be held in person, pandemic situation permitting  
Stay tuned for announcements on ILC Newline*

<https://newline.linearcollider.org/>

The workshop aims to cultivate new ideas and directions for research using the entire ILC facility -- collision point, far away from the collision point, beam dumps, use of extracted beams, etc.

Your idea might become a real experiment.

### Clarification by T. Nakada:

I was informed by several people that there has been a confusion about the EoI process. While the spring **LCWS** is for **the discussion on physics that can be addressed in various ways at ILC**, the **autumn workshop** is aiming for **more concrete ideas of experiments, rather than a physics idea and sketchy detector concept, and with more people behind to work rather than just a single person**. For the **real EoI presentation anticipated in 2022**, it is expected to include **expected performance of the experiments resulted from some simulation studies and technical description of the detector**. At this moment, submission of a written EoI document is not envisaged. The call for EoIs will be triggered by the iDT after seeing a concrete sign for the Pre-lab start, and EoI presentations will be organized by the Pre-lab after being launched.



# Proceedings for LCWS2021

- All speakers are eligible to contribute to the Proceedings.
- The Proceedings are voluntary.
- There is no page limit or format restriction for the contributions.

Proceedings for past workshops are here:

- 2016: <https://www.slac.stanford.edu/econf/C1612054/>
- 2017: <https://www.slac.stanford.edu/econf/C1710232/>
- 2018: <https://www.slac.stanford.edu/econf/C181022/>
- 2019: <https://www.slac.stanford.edu/econf/C191028/>

## Instructions for contributing to the Proceedings:

To contribute, merely post a paper on the **arXiv** with the following phrase on the **title** page and also in the **Comments** field upon submission to the arXiv:

**"Talk presented at the International Workshop on Future Linear Colliders (LCWS2021), 15-18 March 2021. C21-03-15.1."**

After posting, please **send the arXiv number to Jim Brau** (jimbrau@uoregon.edu) with the subject line "**LCWS Proceedings Contribution.**" In the body of the e-mail, please give the **paper title, submitting author, arXiv number** and **LCWS presentation session and time**. Your paper will be recognized and linked on SPIRES via eConf. **The deadline for submission is 14 May 2021.**

Questions regarding the LCWS Proceedings should be directed to Jim Brau (jimbrau@uoregon.edu).