



Introduction talk in TTC-2022 Aomori meeting

Eiji Kako (KEK, Japan)
TTC Chair

October 11th, 2022

TESLA Technology
Collaboration meeting
at Aomori-city

hosted by QST Rokkasho Fusion Institute

2022

TTC Meeting Scientific Program Committee:
Eiji Kako (KEK), TTC Chair
Keitaro Kondo (QST), LOC Chair
Bob Laxdal (TRIUMF), Detlef Reschke (DESY),
Hiroshi Sakai (KEK), Hans Weise (DESY)
Catherine Madec (CEA), Sergey Belomestnykh (FNAL)
Camille Ginsburg (Jlab), Akira Yamamoto (CERN/KEK)
Gao Jie (IHEP)

11-14 October
Link Station Hall Aomori
Aomori-city, JAPAN
<https://www.ttc2022aomori.org>

Linear IFMIF-Prototype Accelerator (LIPAC)
©IFMIF/EVEDA Project



Mission of the TESLA Technology Collaboration

The mission of the TESLA Technology Collaboration is

- ◆ to advance SCRF technology R&D and related accelerator studies across the broad diversity of scientific applications.
- ◆ to keep open and provide a bridge for communication and sharing of ideas, developments, and testing across associated projects.

To this end,

- ◆ The TTC will support and encourage **free and open exchange of scientific and technical knowledge, expertise, engineering designs, and equipment.**

The TTC organizes regular collaboration meetings where new developments are reported, recent findings are discussed, and technical issues concluded.



Revival of in-person meeting



TESLA Technology Collaboration Meeting
19 – 21st January 2021

TTC Meeting Scientific Program Committee:
Hans Weise (DESY), TTC Chair, LOC Chair
Sergey Belomestnykh (FNAL), Eiji Kako (KEK)
Robert Laxdal (TRIUMF), Paolo Pierini (ESS),
Detlef Reschke (DESY), Akira Yamamoto (KEK/CERN)

Hosted by DESY
Hamburg, Germany
<https://indico.desy.de/event/27572>

TESLA Technology Collaboration Meeting
25-27 January 2022
Hosted by QST Rokkasho / KEK

Web meeting
<https://www.qst.go.jp/site/rokkasho-fusion-english/>

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Detlef Reschke (DESY)
Hiroshi Sakai (KEK)
Paolo Pierini (ESS)
Sergey Belomestnykh (FNAL)
Akira Yamamoto (KEK/CERN)

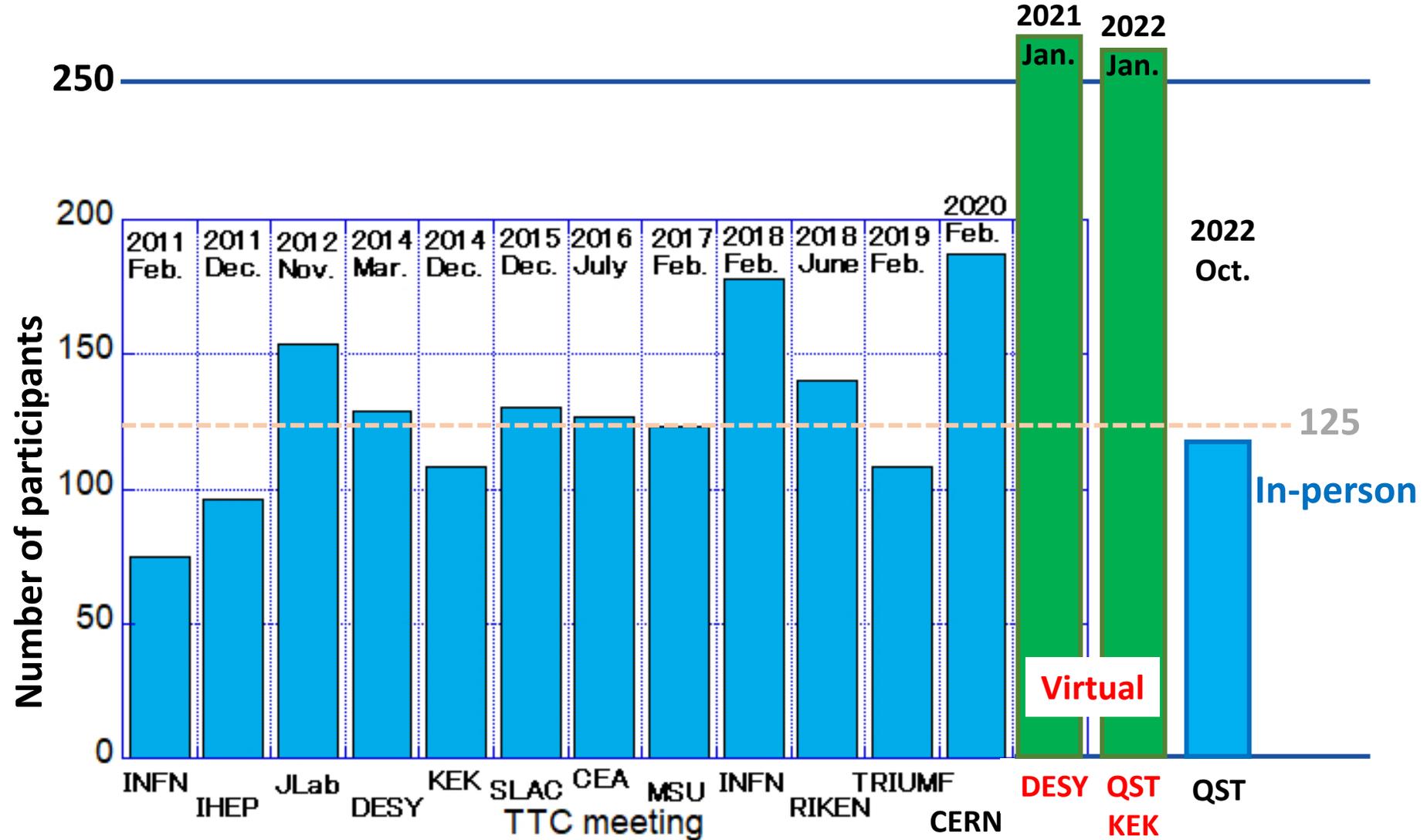
TTC Local Organization Committee:
Keitaro Kondo (QST), LOC Chair
Kazuo Hasegawa (QST)
Atsushi Kasugai (QST)
Kai Masuda (QST)
Eiji Kako (KEK), LOC Co-Chair
Shinichiro Michizono (KEK)
Kensel Umemori (KEK)

QST KEK

Now, TTC-2022 at Aomori
is an **in-person** meeting
with **face-to-face** discussions,
(in a small meeting room
without microphone.)

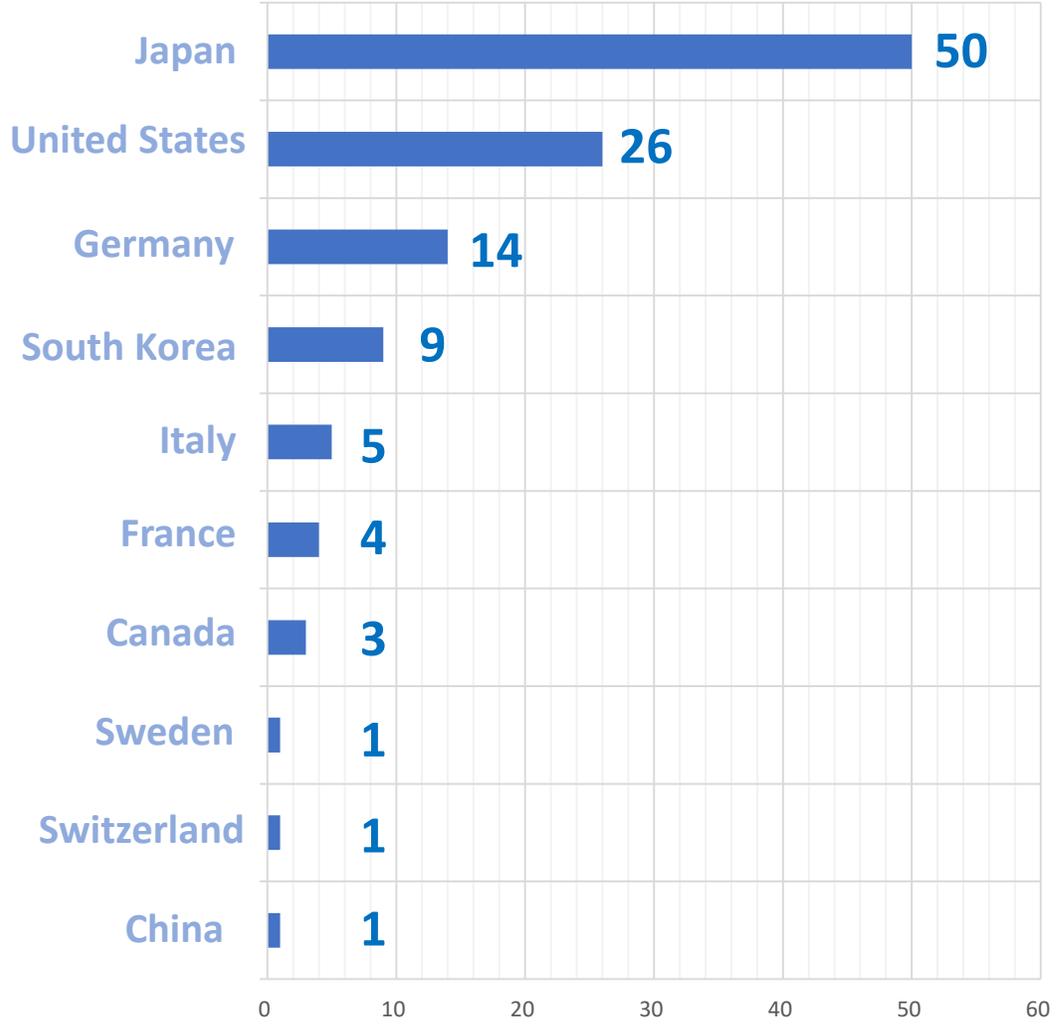


Number of participants in TTC

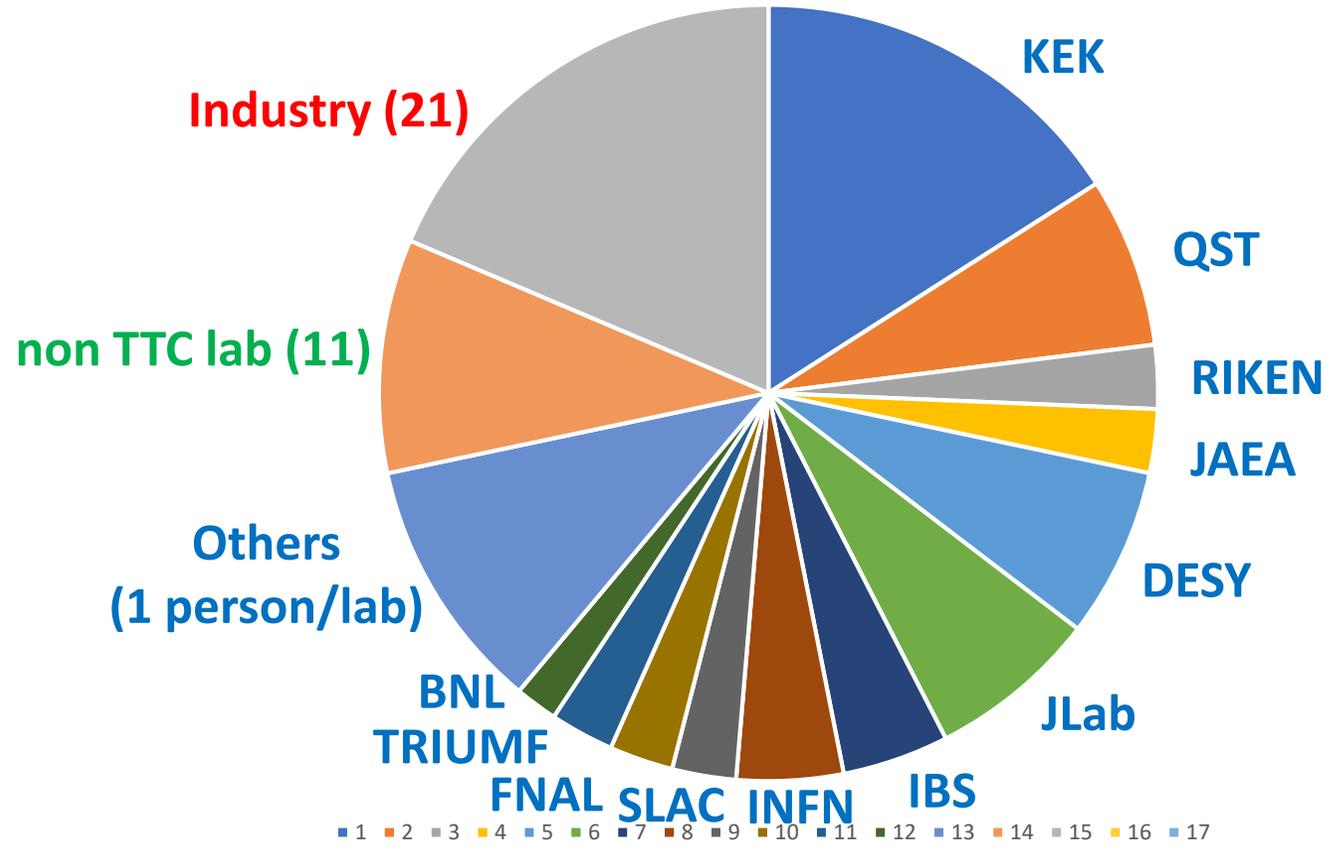




Participants in TTC-2022 Aomori

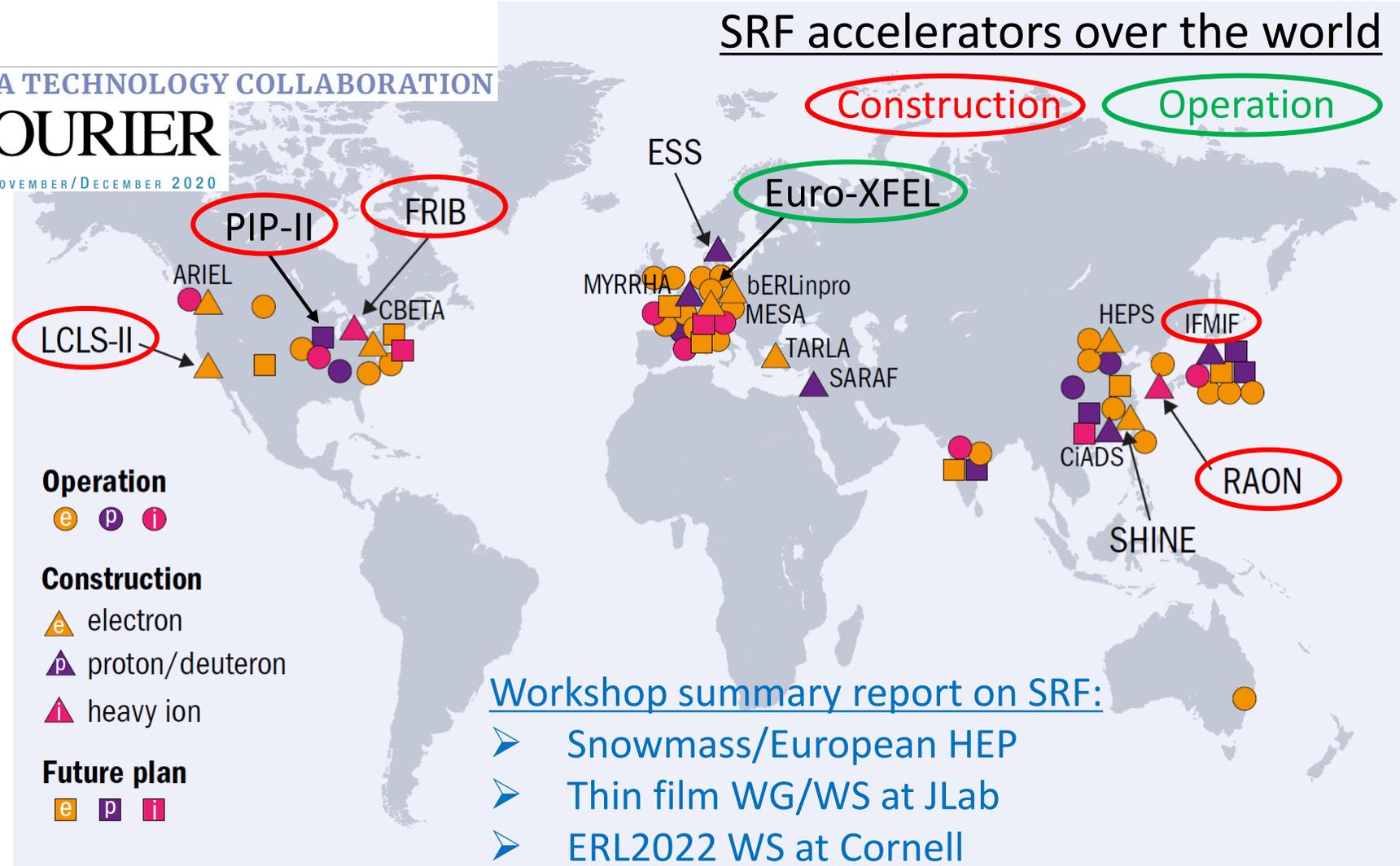


Participants : 114
 Countries : 10





SRF accelerators over the world



Special Seminars:

- Nb production
- ADS in Japan

Hot topic discussion:

- Global He resource

Workshop summary report on SRF:

- Snowmass/European HEP
- Thin film WG/WS at JLab
- ERL2022 WS at Cornell



21 Participants:

Eiji Kako (Chairman, KEK),
 Bob Laxdal (meeting notes, TRIUMF),
 Jie Gao (IHEP), Christian Pira (INFN-LNL),
 Narahiko Sakamoto (RIKEN),
 Jens Knobloch (HZB),
 Catherine Madec (CEA),
 Keitaro Kondo (QST),
 Guillaume Olry (IJCL),
 Felix Schlander (ESS),
 Roger Ruber (Uppsala U),
 Hitoshi Sakai (KEK), Camille Ginsburg (Jlab),
 Sang-Ho Kim (SNS), Hans Weise (DESY),
 Carlo Pagani (INFN-LASA),
 Shin Michizono (KEK), Tianhuan Luo (LBL),
 Sergey Belomestnykh (FNAL),
 Mike Kelly (ANL),
 Georg Hoffstaetter (Cornell)



TTC Collaboration Board meeting

2022, May 25th

Eiji Kako (KEK), TTC chair
 Bob Laxdal (TRIUMF), TTC deputy chair



Eiji Kako (KEK, Japan)

TTC Collaboration Board meeting, 2022 May 25th

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Agenda of meeting



1. TTC statement and action on Ukraine Crisis
2. Status of TTC CB member list
3. Update of MoU Appendix *Approval of CB*
4. New Members of TTC Executive Committee *Approval of CB*
5. Renewal of TTC Technical Board members *Approval of CB*
6. New co-chairs of TTC High-Q/High-G Working Group *Approval of CB*
7. Next TTC meeting at Aomori on October 11-14
8. Others



Eiji Kako (KEK, Japan)

TTC Collaboration Board meeting, 2022 May 25th

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TTC statement and action against the Russian government's invasion of Ukraine

Dear TTC collaborators,

Further to our statement of March 8th we append the action shown below.

We condemn the military aggression by the Russian government against Ukraine and express our deep dismay at this unacceptable cruel behavior and our grave concerns about its impact. Such tragic events should never happen in the world. Our thoughts go to all the people suffering from the invasion of Ukraine, and to them we extend our deepest sympathy and support in this difficult time. As a peaceful, non-political scientific collaboration we stress the need for this war to end and ask all our TTC colleagues to support the peaceful resolution of the crisis.

While we continue to support the global scientific exchange between SRF technology experts and teams, due to the severity of the situation **we are suspending participation of Russian institutes in TTC sponsored events and collaborations, until further notice.**

This TTC statement was sent to around 200 TTC collaborators.

March 11th, 2022

Eiji Kako, Bob Laxdal, Hans Weise, Paolo Pierini, Sergey Belomestnykh, and Akira Yamamoto
(TTC Chairs and Executive Committee members).



New TTC Executive Committee



TTC chair	Eiji Kako (KEK)
TTC deputy	Bob Laxdal (TRIUMF)
Regional representative (Europe)	Hans Weise (DESY) Catherine Madec (CEA) *
Regional representative (North America)	Sergey Belomestnykh (FNAL) Camille Ginsburg (Jlab) *
Regional representative (Asia)	Akira Yamamoto (KEK) Gao Jie (IHEP) *

* new EC member

To strengthen the support of regional SRF activities and broaden reporting on overall SRF progress.

The EC members will attend the CB and TB meetings, as observers.



Co-chairs

D. Reschke (DESY)
H. Sakai (KEK)

Improvements:

- Gender balance
- Laboratory balance
- Age balance

* new TB member

Cavity and couplers

S. Calatroni (CERN)
R.L. Geng (ORNL)
J. Hao (PKU)
A. Romanenko (FNAL)
K. Umemori (KEK)
J.Y. Zhai (IHEP)
D. Longuevergne (IJCLab)
Z. Conway (BNL)
N. Sakamoto (RIKEN)
L. Monaco (INFN Milano) *
L. Popielarski (FRIB) *
M. Martinello (SLAC) *
P. Dhakal (Jlab) *

RF and tuning

F. Gerigk (CERN)
A. Wheelhouse (STFC)
C. Hovater (JLab)

Cryomodule and cryogenics

T. Arkan (FNAL)
K. Jensch (DESY)
J. Mammosser (ORNL)
S. Aderhold (SLAC) *
S. Barbanotti (DESY) *
A. Neumann (HZB) *

Integration and operation

M. Liepe (Cornell)
E. Harms (FNAL)
J. Branlard (DESY)

Honoris causa (observers)

C. Pagani (INFN)
M. Ross (SLAC)
O. Napoly (CEA)
H. Padamsee (Cornell)
W.-D. Moeller (DESY)
P. Pierini (ESS)

Total (w/o observer) = 27
(EU=10, NA=12, Asia=5)

Gender balance = 4/27



● New chairs of TTC High-Q/High-G Working Group:

- Martina Martinello (SLAC)
- Kensei Umemori (KEK)
- Akira Miyazaki (Uppsala U)

→→→ Summary talk in WG-1

TTC High-Q/High-G WG remote meeting was held on May 5th and Sept. 8th, 2022.

● Chairs of TTC Thin Film Working Group:

- Marc Wenskat (U. Hamburg) →→→ Summary talk in plenary session
- Sebastian Keckert (HZB)

TTC Thin Film WG remote meeting was held on Aug. 24th, 2022.



at TTC meeting:
Please enjoy insight discussions in WGs
on cutting-edge SRF technologies.

Thank you for your attention!