Opening remarks: Highlighting the significance of the workshop

Toshimichi Otsubo
Hitotsubashi University
Chair of ILRS Governing Board
Greetings from the GB Chair

Significance of this workshop

New ILRS schemes for planning future workshops
Greetings from the GB Chair

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Global
Next generation
SLR for everyone
Number of Stations vs. Year

- **Number of Stations**: Yellow bars indicate the number of stations.
- **Low Satellites**: Orange dots and line show the trend for low satellites.
- **LAGEOS+ LARES Satellites**: Blue dots and line represent the LAGEOS+ LARES satellites.
- **High Satellites**: Green dots and line indicate the high satellites.

**Year**
- 1998
- 1999
- 2000
- 2001
- 2002
- 2003
- 2004
- 2005
- 2006
- 2007
- 2008
- 2009
- 2010
- 2011
- 2012
- 2013
- 2014
- 2015
- 2016
- 2017
- 2018

**Number of Satellites**
- Low Satellites: Orange dots and line
- LAGEOS+ LARES Satellites: Blue dots and line
- High Satellites: Green dots and line

**Notes**
- “We are busy” (handwritten annotation)
- Created by C Noll.
Greetings from the GB Chair

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Just one example of how to enjoy this week
Laser ranging: To improve economy, performance, and adoption for new applications
Low Cost? More Stations!

- SLR: Multi-million EUR/USD → 40 stations worldwide
- GNSS: 1% of SLR cost → 18,000 stations worldwide

Key points/questions:
mm-level single-shot RMS is not mandatory. A non-Coude system (fiber or telescope-mountable laser) can do?
Other key elements for boosting SLR data/stations

• Automation & Safety
  Session 5 is for Safety
  Automation here and there

• Multi-purpose system
  Session 3 is for New Applications

• Observation efficiency
  Session 2 includes Efficient operation
  Session 4 includes Scheduling for kHz

• System upgrades
  In some talks and many posters
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Interested in hosting 2021 or 2022 workshop?
Look at the ILRS website & find “guidelines for...”.
More on Friday afternoon.
Guidelines for Planning International Workshops on Laser Ranging and ILRS Technical/Specialized Workshops

The ILRS sponsors International Workshops on Laser Ranging (IWLR) which are typically held every two years. In addition, the ILRS organizes focused technical or specialized workshops in years between the International Workshops on Laser Ranging. More information about these workshops, as well as links to their dedicated websites, is available on the ILRS website at:

https://ilrs.gsfc.nasa.gov/about/reports/workshop/index.html

International Workshop on Laser Ranging (IWLR)

- An IWLR should typically be held every two years (as practicable).
- The host of a future IWLR should be selected at the previous IWLR by vote of the meeting attendees; the ILRS Central Bureau will send out a notice three months prior to this meeting so that possible candidates can organize their proposals for presentation prior to the vote.
- The IWLR host is expected to coordinate/organize the posting of presentations, workshop and splinter meeting summaries/actions, and proceedings for posting on the ILRS website.
- The ILRS Standing Committees (SCs) and Governing Board (GB) will hold splinter meetings at the workshop and provide summary material at the closing session of the workshop.

Technical/Specialized Workshop

- These workshops may be held in the intervening years between the IWLRs; such workshops should be on focused topics of current importance for planning purposes.
- The ILRS GB will issue a request for proposals to host a future workshop 1.5 to 2 years in advance. Interested organizations should submit their response to the ILRS GB for review followed by final approval by the ILRS GB. After that time, the host organization selected by the Governing Board is requested to present their workshop plan at an IWLR of the previous year; alternatively, the GB may accept a proposal for a workshop with shorter notice.
- As with the IWLR, the organizer of these workshops should coordinate the posting of presentations from the meeting as well as summary reports with key issues and recommendations; proceedings can be proposed for posting.

Schedule for future ILRS workshops (as of October 2019):

- 2020: 22nd International Workshop on Laser Ranging, Kunming, China in October
  - Presentation on plans for this workshop to be presented at the 2019 ILRS Technical Workshop
- 2021: Technical/Specialized Workshop, location/timeframe TBD
  - October 2019: begin search for host/location
  - January 2020: close acceptance of proposals and seek vote from GB
  - March 2020: notify proposed host and announce location to community
  - October 2020: presentation from LOC in Kunming (22nd IWLR)
- 2022: 23rd International Workshop on Laser Ranging, location/timeframe TBD
  - July 2020 (3 months before the IWLR in Kunming): begin search for host/location
  - October 2020 (at the IWLR in Kunming): presentation by host candidates and vote by attendees
Timeline for 2020-2022 workshops

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Thank you.
Have a great time in Stuttgart.