

# IWLR 2018 Session 4: Network Operations and Site Upgrades - Summary

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# Overview

- Number of abstracts for oral and poster presentations: 35
  - The large response follows an ILRS request for upgrade presentations
- Number of oral papers: 7 from 13 abstracts
- Number of posters presented: 14
- Main topics of oral presentations:
  - New stations: 4
  - ILRS Procedures: 1
  - Other topics: 2

# New stations

- Jake Griffiths on the Stafford system under development
- Andre Kloth on the ESA SLR station (ELSR) to be built at Tenerife for SLR and debris
- Andre Blinov on the new Mendeleevo and Irkutsk stations and the plans for LLR and time transfer
- Takehiro Matsamoto on plans to replace the Tanegashima station.
- Trends:
  - Use COTS parts, optical fibre rather than a coude path, and other techniques to create simple, compact, and economical systems.
  - Use of ADS-B and IR cameras for aircraft avoidance (Tanegashima)
  - Debris tracking is in the plans (ELRS)
  - LLR and time transfer (Mendeleevo and Irkutsk)

# ILRS Procedures

- Christian Schwatke presented information on using the new on-line editor to input and update the version 2 of the ILRS Site Log and Change History Log
- Announced on-line format checking for CPF and CRD v2
- Continues a trend at the ILRS and other services of creating friendly on-line facilities to maintain documentation

# Other topics

- Alexander Kelm's talk

- continued a presentation from an earlier session in which simulations were used to study the impact of a different distribution of SLR stations.

- considered the impact of increasing the yield of each all stations to at least 20% (good impact) and combining this with a different distribution (even better).

- continues a trend in the study of the impact of various elements to create more effective laser networks

- Stanislaw Schillak studied the use of LARES with and without other geodetic satellites to determine station coordinates.

- continues the trend in studies on use of LARES for geodetic purposes also seen in earlier sessions.