IWAA 2024 – Closeout

https://iwaa.slac.stanford.edu/

Georg Gassner/ IWAA24 Organizing Committee

11 October 2024

SLAC NATIONAL ACCELERATOR LABORATORY

Stanford University | U.S. DEPARTMENT OF ENERGY

IWAA 2024 – Thank you

- Admin Team
  - Marve Bobis DeLong
  - Naomi Nagahashi
  - Craig, Bambi, …
- SLAC metrology department
  - Mike Gaydosh
  - Hans Imfeld
  - Bryan Rutledge
  - Michael Rogers
  - Francis Gaudreault
  - Keith, Zack, Yurii, Brian
- Web Team
  - Andrea Chan
  - Soni Dev
- Others
  - Diane Kelley
  - John Schmerge
  - Kristijan Kunus
  - Georgi Dakovski
  - Nicole Neveu
  - ....

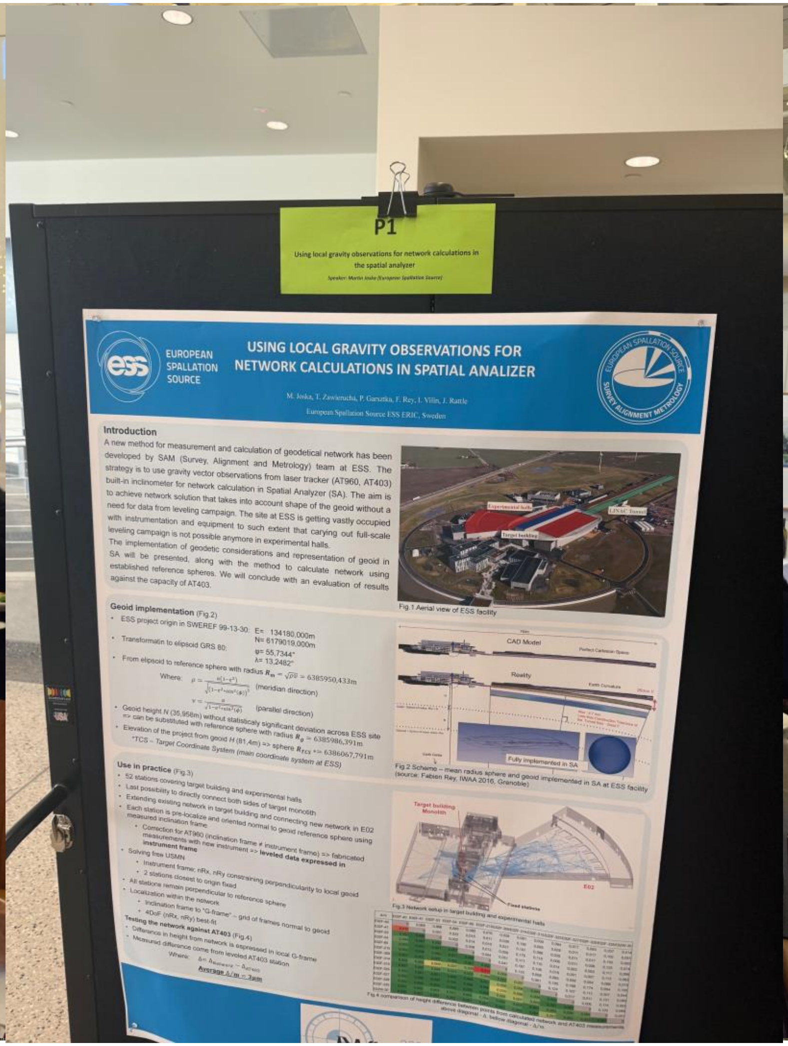
IWAA 2024

Participation

- We had 80 Participants from 36 different institutions

ALBA Synchrotron	Duke University	Hexagon Manufacturing Intelligence	MAX IV Laboratory	SLAC
Argonne National Laboratory	ENS de Paris Saclay	INFN - Laboratori Nazionali di Frascati	Micro Surface Engineering Incorporated	Sun Yat-sen University
AWE PLC	ESRF	Institute of High Energy Physics, CAS	National Synchrotron Radiation Laboratory	Synchrotron SOLEIL
Brookhaven National Lab	European Spallation Source	Institute of Modern Physics, CAS	NNSS - DOE	TRIUMF
CERN	Fermilab	KEK	NSRRC	
CNAM	FRIB	Lawrence Berkeley National Laboratory	Nusano Inc.	
Deutsches Elektronen-Synchrotron DESY	GEOS3D	Leica Geosystems AG	PASCO Corporation	
Diamond Light Source	GSI Helmholtz Centre for Heavy Ion Research	Los Alamos National Laboratory	Shanghai Advanced Research Institute, CAS	

Pictures


P1
EUROPEAN SPALLATION SOURCE
USING LOCAL GRAVITY OBSERVATIONS FOR NETWORK CALCULATIONS IN SPATIAL ANALIZER
Introduction
Geoid implementation
Use in practice

IWAA 2024 –Impression

My personal impression was that many are working on

- How can we make alignment faster especially for the large new projects but also to keep the downtime of the machines to a minimum.
- How can we make it cheaper.
- How can we make it more accurate.
- How can we express uncertainty accurately.
- How can we formalize the request for alignment tolerances.

IWAA 2024 –Impression

What we heard about to solve these questions

- More collaboration at European Institutions
  - Open source software / hardware
  - Peak load help
- New techniques in fiducialization - > Photogrammetric / Trilateration / Triangulation / Magnetic Landmark
- Automatization of alignment tasks.
- New HLS sensors, two wavelength ADM

IWAA 2024 –Impression

What else

- Orient to gravity issues and how Leica Laser Trackers function
- Structured Laser Beam and Layer Beams.
- Poisson Spot Monitoring
- Alignment strategies for different Facilities

Many more, …

IWAA 2024 –Best Poster

Congratulations

Martin Joska

Using Local Gravity Observations for network calculations in the spatial analayzer

International Committee - Members

Mika Masuzawa is stepping down from the International Committee, H. Kimura had already left in 2022.

Thank you both for serving on the committee!!!

New members

Name	Affiliation	Country
Toshihiko Hiraiwa	RIKEN	Japan
Yuichi Okayasu	KEK	Japan

International Committee - Members

Name	Affiliation	Country
V. Bocean	FNAL	USA
G. Gassner	SLAC	USA
Toshihiko Hiraiwa	RIKEN	Japan
W. Jansma	ANL	USA
H. Mainaud Durand	CERN	Switzerland
D. Martin	ESRF	France
Yuichi Okayasu	KEK	Japan
J. Prenting	DESY	Germany
X. Wang	IHEP	China

International Committee – Peer Reviewed Papers

Peer Reviewed Paper option

- We will provide the option to have your paper peer reviewed in the future.
- We will not peer review every paper, just on request and after agreeing to it.
- Helene and David will work on the detail, we will publish them on the IWAA website.

  https://iwaa.slac.stanford.edu/

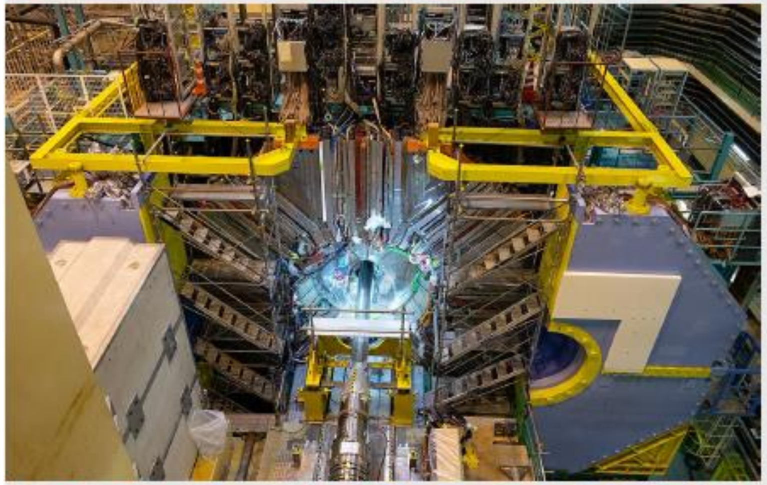
International Committee – Format

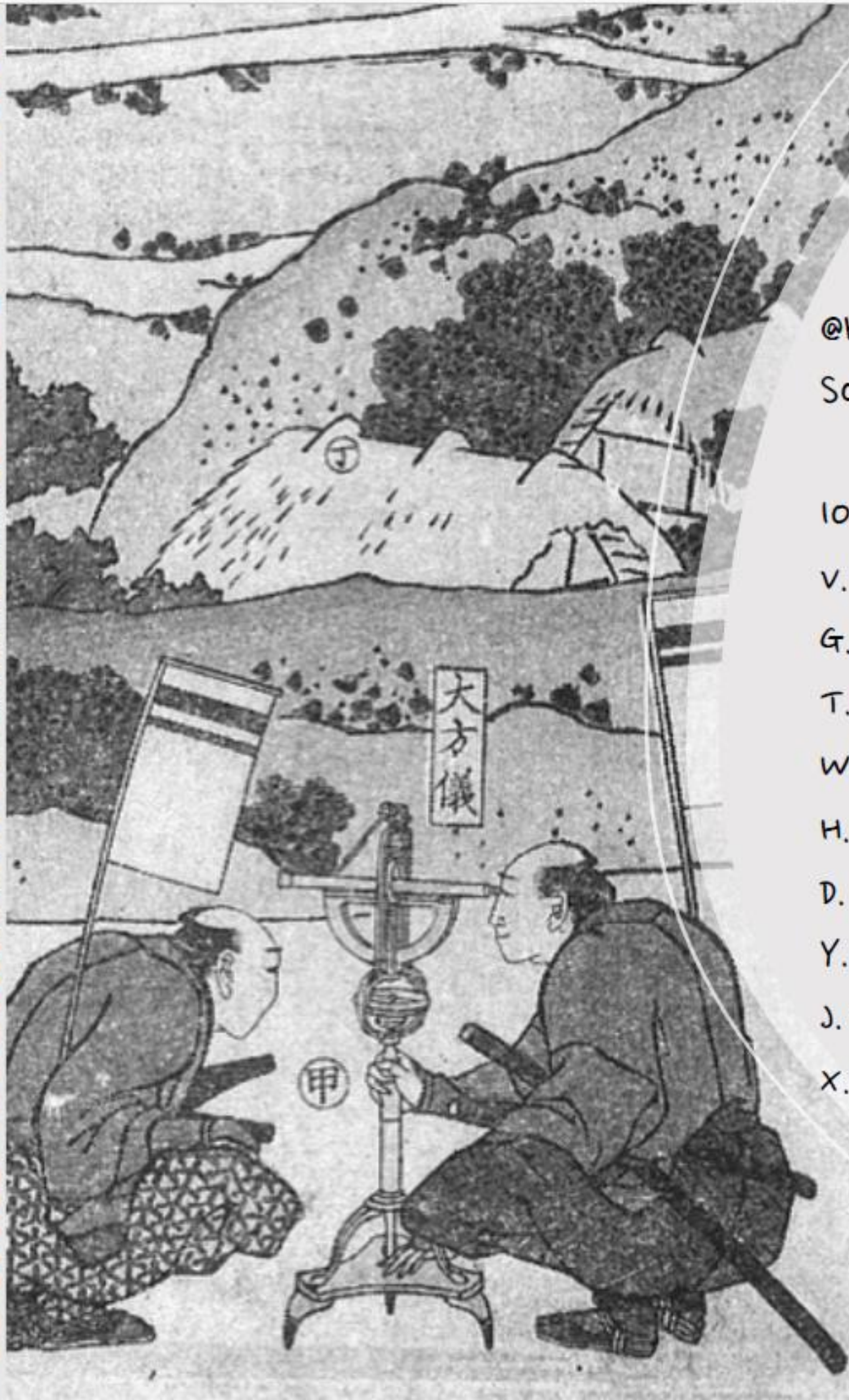
Presentations

- We will continue with the length of presentations with 20’ plus 5’ for questioning.

Conference Setting

- 4 days of presentations
- Poster session
- Dinner
- Tour of host institute
- It is up to the hosting team if the meeting takes place at the institution or at a hotel off site .





IWA2026

@KEK

Sometime in autumn

IOC

V. Bocean	FNAL USA
G. Gassner	SLAC USA
T. Hiraiwa	RIKEN Japan
W. Jansma	ANL USA
H. Mainaud Durand	CERN Switzerland
D. Martin	ESRF France
Y. Okayasu (chair)	KEK Japan
J. Prenting	DESY Germany
X. Wang	IHEP China

See you all in Japan