

Taipei, Taiwan: Nov 3, 2024

canSAS - 2024 

www.cansas.org

canSAS updates

canSAS – what is that?

Its all in the name:

Collective (Aid) Action for Nomadic Small Angle Scatterers

The very first meeting was held in Grenoble France, Feb. 4-6 1998.

The stated purpose was: *To figure out a seamless interchange of reduced data*

15 meetings of some kind since, including yesterday/today with last year being 14th anniversary meeting back in Grenoble

- Name changed to Action
- Evolved beyond data formats to the broad scope of common SAS challenges
- Working groups formed in 2007 – most “action” driven through WG



canSAS – what is that?

A self assembled (grass roots) group of SAS practitioners, users and facility people, who come together to:

- Share and learn about emerging opportunities and new developments in the field and challenges that they pose.

You can learn a lot more from failure than success

- Build new collaborations
- Work co-operatively to improve the field for all

advancing SAS through community action

canSAS: current status

- Web page at www.cansas.org
- Community wiki at wiki.cansas.org
- SAS Portal at www.smallangle.org
- Several Round Robins directly and indirectly
- Glassy Carbon available as an SRM
- Github scattering-central created for legacy codes
- 1D format approved May 2009 (1.0) and 2013 (1.1)
- nD ratified by NeXus Inter. Adv. Comm. End of 2016
- Eight current working groups (WG)
 - IGOR WG resolved conflicts and was sunsetted Apr 2015
 - Four new WG since 2015 - new direction
 - Grazing incidence 2015 (Tokei)
 - SE and TOF-SANS 2019 (Freising)
 - Tomography 2022

canSAS: Report from Yesterday

... More like initial quick summary

NOTE: The Program is on the wiki:

<https://wiki.cansas.org/index.php?title=canSAS-XIV>

The presentations to be linked to the program soon

Discussion notes will also be linked to the program

Morning session was presentations of status and discussions thereof for the 8 WG

- Information and dissemination
- Sample Environments
- Grazing Incidence
- Reproducibility and Reliability
- Data formats
- TOF SANS
- SESANS
- Tomography

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... More like initial quick summary

A few highlights:

- Round robins for a variety of efforts and WG viewed as highly valuable
Too often waiting for the perfect sample is the enemy of the good
- Tomography suggested to not be mature enough? and perhaps the wrong community? Suggest sunseting.
- Data formats need to get to the point that they can be more widely adopted. New extensions should facilitate that?
- Better resolution and error understanding/reporting important (DF implications).
- Resolution (data format implications) is larger than TOF and that discussion should be moved to a wider forum
- Discussion around standard data formats and wider round robins for emerging “SAS” techniques such as SESANS, interferometry SAS etc
- Desire expressed to define grazing incidence “broadly” to be

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The afternoon session was devoted to three topical presentations/discussions:

Data Reduction

- Many issue discussed
- Is there a need for a WG?

Databases

- Importance and what to include discussed
- Funding for sustainability a big issue
- Difficulty in getting validate, well documented data submitted?

AI/ML for SAS

- Need control of instruments AND read out reduced data on the fly
- Everyone wants to be the controller. SCIENCE should be in control
- recommended to use web technologies.

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A few Definite actions:

- Anje Hormann has posted a GISAS survey and leading standardization and validation/best practices efforts. Seeking input and interested parties
- Joe Kline is looking for a fulsome round robin on a proposed standard reference material (SRM). Poster PI-12 seeking interested parties.
- Data format and resolution workshop in 2025 to prepare version 1.1 for NEXUS consideration – Contact Andrew Jackson
- Probable RheoSAS SE meeting – Contact Katie Weigandt
- SAS portal port nearly complete – interest in contributing once ported - Contact Paul Butler



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Other General “outcomes”:

- Some agreement that it is time to back off on the frequency of in person, meeting of the whole, and focus more on advancing the many activities
- Suggestion to focus on some smaller focussed workshops to achieve some goals with target to report progress via hybrid meeting in one year, followed perhaps in 2 years by the next full workshop prior to SAS2027 .

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A theme and parting message:

It is very useful to discuss the problems and issues as a group in its own right. However, making progress on addressing any of them only happens to the extent people are willing and able to invest effort. This is the rate limiting step.

On that note: The mailing lists have been effectively absent for many years and reinstating them identified as a key need to aid the above.

We hope to have a solution soon. When ready, registered canSAS participants will be invited to join appropriate lists...

BUT - If you have interest and are willing to contribute consider also signing up today with our old fashioned paper signup sheet.

canSAS updates

We leave you with two words

(it's in the name)

- Collective (“we”)
- Action

Questions and Discussion?

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