First circular

Tephra Fusion 2022 Webinar

Registration: https://forms.gle/kLWZHsF48KM5Gj5F7 (link valid for all sessions)

Workshop Website: https://tephrochronology.org/cot/Tephra2022/

Format: virtual workshop series, four 2-hour (max) webinar sessions

Media: Zoom - workshop videos will be made available on the website

Dates: February 10, 18, 25 and March 3 (Thursdays & Fridays)

Start Time: 11:30 AM US & Canada Eastern Time Zone (GMT -5)

Audience: Members of the multidisciplinary tephra community wanting or needing to learn how to make their data open and FAIR (**F**indable, **A**ccessible, **I**nteroperable, **R**eusable) and learn about the broader landscape. Participants may attend any or all sessions as desired. Contact conveners if you have questions about session content.

Sponsors: IAVCEI Commission on Tephrochronology (COT), NSF EarthCube, USGS, EarthChem

Conveners: Kristi Wallace (kwallace@usgs.gov), Marcus Bursik (mib@buffalo.edu), Steve Kuehn (sckuehn@concord.edu), Andrei Kurbatov (akurbatov@maine.edu)

Workshop Goals:

1. Reconnecting the community to progress made over the last decade in tephra data standardization and sharing
2. Adaptation of FAIR data principles
3. Update on new tools available for tephra research (IGSN, EarthChem tephra data portal, StraboSpot tephra module for field collection)
4. Update on best practice recommendations for tephra from collection through analysis.
5. Planning and developing next steps and next-generation tools

Expanded Schedule (sessions):

Session 1: Motivation, Thursday February 10, 2022

- IAVCEI Commission on Tephrochronology (CoT) introduction and vision (Britta Jensen, U Alberta, and CoT President)
- Development of Tephra Community Best Practice Recommendations (Kristi Wallace, USGS)

- Introduction to FAIR data principles and the broader landscape (Kerstin Lehnert, Lamont-Doherty Earth Observatory of Columbia University, Director, Interdisciplinary Earth Data Alliance)
- Journal editor perspective (Guy Jones, Chief Editor, Scientific Data, Springer Nature)
- Funding agency perspective (Raleigh Martin, Program Director, Geoinformatics, NSF)
- USGS perspective (Vivian Hutchison, Branch Chief, USGS Science Data Management)

Breakout Session (10 min): Discussion of how FAIR data principles are enacted around the globe.

Session 2: Field Data Collection & Management Example - StraboSpot, Friday February 18, 2022

Working with StraboSpot for Tephra: How to document samples and get your locations searchable (Doug Walker, U Kansas)

- What is StraboSpot?
- StraboSpot web and iOS app demo – the standard version.
- StraboSed app demo – another mode.
- StraboMicro and StraboTools quick introduction.
- StraboSpot tephra demo – Alaska Volcano Observatory output.
- Close: Community feedback on StraboSpot and digital field tools

Session 3: Digital Data Repository Examples - SESAR/EarthChem, Friday February 25, 2022

How to make data FAIR—SESAR/EarthChem (Sarah Ramdeen, Product Manager, SESAR, System for Earth Sample Registration; Lucia Profeta, Product Manager, EarthChem)

- Brief introduction into the two systems and primary purpose
- Review of tephra data submission templates
- Walk through a submission from an existing data set
- Answer questions about the SESAR/EarthChem services, how they fit into the broader workflow of the other tools and services highlighted in the workshop series, the templates, the submission process, etc.
- Close: Community feedback on sample registration and geochemical data submission

Session 4: Future Roadmap for Open Tephra Data, Thursday March 3, 2022

- Summary of workshop progress
- Future best practice work
- Future information systems
- Development of action items and goals