

Email*

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Session Lead Organizer Name*

Kerstin Lehnert, Andrea Thomer, Saebuyul Choe,

Session Lead Organizer Email*

This is the email that will be used for all correspondences from ESIP Staff. The session lead will be responsible for sharing information with other session organizers, as well as disseminating presenter guidelines shared by ESIP to session presenters.

Other Session Organizer(s)*

Wade Bishop

If more than one, add comma separated Session lead organizer (above) will be considered main point of contact for ESIP Staff.

Session Title*

SESAR & IGSN updates

Session Description*

Please describe your session with as much specificity as possible and how you see its connection to the theme "Opening Doors to Open Science."

The System for Earth Sample Registration (SESAR) has been an important piece of earth science infrastructure for the last decade. Over the last year, a central function of SESAR – the assigning and maintenance of International Generic Sample Numbers (IGSNs) has been taken over by DataCite. This has changed the structure and function of SESAR significantly. Additionally, SESAR is likely adopting the iSamples infrastructure in the near future. In this session, we want to check in with the ESIP community to identify future directions for SESAR, and to better understand any challenges they are currently facing in using SESAR or working with samples. We additionally want to gain feedback on the usability of existing interfaces and ways of interacting with SESAR and iSamples.

Potential additional topics include:

- Issues linking to images and other related data artifacts
- Core metadata requirements
- Changes to IGSNs and their use since the move to DataCite

Presentations will include:

- Wade Bishop will share recent findings from a study of the curation behaviors of managers of physical collections. Six focus groups were conducted with twenty participants from several physical sample communities. Participants responded to open-ended questions that relate to the entire data lifecycle for their research objects. Revamping the cyberinfrastructure, support services, and research data management (RDM) tools, for all domains now grows in importance and physical collections in particular face a number of obstacles to enable science data to align with machine-actionable aspirations like the FAIR Data Principles (to be as findable, accessible, interoperable, and reusable as possible), ethical considerations such as the CARE (Collective benefit, Authority to control, Responsibility, and Ethics) Principles for Indigenous Data Governance, and new US and other national mandates across funding agencies for as open data as possible (Wilkinson et al., 2016; Carroll et al. 2020; NIH, 2020). The key to unlocking these potential discoveries in the exact sciences is to understand and gain knowledge of the best practices to move the entirety of tangible objects onto a functional cyberinfrastructure. Physical collections hold enough value to warrant additional funding for both their continued management and the growing importance of having these collections digitally accessible for reuse through improved cyberinfrastructure and RDM tools.

- More TBD

Session Purpose*

Make your case for why this session needs to be part of the upcoming ESIP Meeting. What challenges, problems, or opportunities are happening that your session is responding to? Why is this session important to you and/or the ESIP community and/or to advancing the work of an existing ESIP project?

As we describe in the abstract, SESAR has been a major project within the earth sciences for the last decade, and many ESIP members use this infrastructure. We really need the ESIP community's feedback and input to help guide future development of SESAR. The Physical Sample Cluster is also submitting a broader proposal to discuss infrastructure needs within the ESIP physical samples community more generally; we want to also run this session because we need to discuss issues with SESAR specifically and in greater detail. Megan Carter suggested that two sessions would be more appropriate and efficient than one.

Outcomes/Goals*

What do you want to accomplish during this session? Specifically, what do you want to get from this session and what do you want the participants to get from coming to your session?

The goal is to identify how changes to IGSN infrastructure and updates to SESAR can better improve the discoverability of sample metadata and community needs.

Some of our specific activities will be guided by an upcoming presentation to the Physical Samples Cluster. We may additionally wish to gain structured feedback on user interfaces. Additionally, we wish to gain feedback on what additional samples SESAR should work to support (e.g. beyond geosamples) and what metadata would be needed to make those samples findable.

Length of Time/Duration*

For this meeting, we are primarily focusing on 90-minute sessions. We encourage session leaders to concentrate on designing these high-quality 90-minute sessions. However, in some instances a different duration might be more suitable for your session's purpose and design. For this reason, we will have a very limited number of 60- and 150-minute sessions that will be by invitation only. Tell us if your session needs something other than 90-minutes and make a case for why your session should get it. When we notify you of session acceptance, we will also notify you of the duration your session has received.

90 minutes; would like to be scheduled on the same day/part of day as the Physical Sample Cluster session if possible.

Session Participants

Speakers

If your session's design includes multiple speakers, 1) tell us how many, 2) who they are including email address, and 3) if they are confirmed or not.

Not all speakers are confirmed, but may include Dave Vieglais from the iSamples project, Kristen Elger from GFZ German Research Centre for Geosciences, and Kerstin Lehnert.

Wade Bishop, University of Tennessee-Knoxville, School of Information Sciences (confirmed)

Target Audience*

Describe the types of participants that will want to come to your session. Who else cares about, is dealing with, or is impacted by this information, problem, challenge, or opportunity? Whom or what groups do you want to reach? (Ex. certain disciplines, professional roles, facilities, agencies, collaboration areas, etc.)

Curators of samples and data, researchers, publishers, information science professionals

Session Level*

What level of knowledge or experience with the subject will participants need in order to fully participate in your session?

No prior knowledge or experience is needed - the session skims the surface or is an introduction

Some prior knowledge would benefit participants – the session will jump right into an intermediate level

Some prior knowledge would benefit participants AND a quick review of supporting materials before the session will be a sufficient orientation for novices to feel more comfortable in the session

Experienced practitioners will feel the most comfortable as this session will be a deep dive into the topic AND all skill-levels are welcome to join in

Cluster Work Session – familiarity with the clusters work and tasks required

Are you looking for additional speakers?*

Before each ESIP Meeting, we often have individuals looking to present their work in a session that has already been proposed. If you would welcome additional speaker suggestions, please select "Yes."

Yes

No

Maybe

If you are looking for additional speakers, please describe what kind of speakers/talks you are looking for.

We may be able to use your description of desired speakers to attract others to speak in your session. Feel free to be very specific --> "Looking for a nonprofit professional who can speak about how they've integrated CRM, Email, Website and/or other related systems. Ideally, this speaker would be able to walk the audience through a map of how data systems are connected and talk about the experience of working in this integrated environment."

Your answer

Recommended Ways for Session Attendees to Prepare

If your session will be a continuation of previous efforts (e.g. continuation of a collaboration area activity) or otherwise difficult for a newcomer to easily jump into, please provide information on how a newcomer might prepare to attend your session. This could be a link to a webinar, presentation, or past session. You could also include here a sense of what topics/questions participants should come prepared to discuss.

[Draft Sample Sharing Guidelines](#)

[Cluster meeting notes document](#)

Your answer

Session Tags*

Select 1-3 session tags that best describe your session. Add other options if needed.

Cloud Computing

Data Stewardship

Education

Machine Learning

Metadata

Science Communication

Semantics

Other: **samples**

Collaboration Area Tags*

Select one or more tags to indicate which ESIP collaboration areas your session relates to or may be of interest to.

Agriculture and Climate

Air Quality

Biological Data Standards

Cloud Computing

COPDESS

Community Data

Community Ontology Repository (COR)

Community Resilience

Council of Data Facilities

Data Readiness

Disaster Lifecycle

Discovery

Documentation

Drones

Education

Envirosensing

ESIP-E2SIP

Information Quality

IM Code Registry

Machine Learning

Marine Data

Open Science

Physical Sample Curation

Public-Private Partnerships

Research Data Management

Research Object Citation

Schema.org

Semantic Harmonization

Semantic Technologies

Soil Ontology & Informatics

Sustainable Data Management

Usability

Other:

Additional Session Tags

Add a comma-separated list of any additional session tags you feel are appropriate and not captured in previous questions.

Your answer

Will this session feature or discuss any ESIP-supported outputs? If yes, please list. e.g.,
Outputs of ESIP Collaboration Areas or ESIP Lab Projects

Your answer

Do you have any suggestions of potential plenary speakers in line with the meeting
theme of Opening Doors to Open Science

No

Session design training is a key way that ESIP assists session organizers in planning
their sessions. If your session is accepted, is there anything you know now that you
would particularly like to learn more about with respect to session design training?*

No

Next