



ASC S³C

CALL FOR PAPERS/
PRESENTATIONS

Tri-lab Advanced Simulation & Computing Sustainable Scientific Software Conference

NLIT Summit 2023

National Laboratories Information Technology

**MILWAUKEE, WI
JUNE 27-30
2023**

The ASC S³C committee is excited to host our second conference in 2023. This year, all ASC S³C sessions will occur at the NLIT Summit 2023 in Milwaukee, WI. Submit your abstract via the NLIT conference website and present your take on what's going well and what can be improved.

Stakeholders

Analysts | Designers | Engineers
Application Developers | Code Developers
Dev(Sec)Ops Developers & CI/CD Engineers
System Administrators

Themes

Security and DevOps (DevSecOps)

Security concerns challenge development, deployment, and maintenance efforts across the spectrum. What challenges is your site facing? What solutions are working? Talk about the work going on at your site or specific to your team.

Containers

Container technologies are improving and many teams are exploring containers for application deployments and as infrastructure. Talk about the work at your site regarding container research and/or application.

Dependency Management

Modular software development requires substantial investment in building and maintaining dependencies. What tools are part of your infrastructure to support these processes? Are you able to share dependency builds across projects? What opportunities are there to simplify these processes?

Cross-laboratory workflows

The Remote Computing Enablement (RCE) effort is working with HPC service providers to ensure the remote user experience is similar to the local user experience. What are your team's needs and vision for cross-laboratory workflows? As an analyst/designer/engineer, what workflows do you need support on from across laboratories?

Software engineering for sustainable scientific software

Developers across the complex are adapting and applying software engineering best practices to the development of scientific software. Examples include test-driven development, Agile methodologies, version control, requirements engineering, and verification & validation graded approach. What are some of your practices for engineering sustainable scientific software?

DevOps infrastructure and pipeline development

Software projects use processes and tools to create continuous integration and deployment (CI/CD) pipelines. Examples may include multiple repository integration, workflow implementation, security scanning, and pipeline automation. What DevOps tools does your team use?

Data-Centric Computing/Data Discovery

A lot of data is generated across tiering structures loosely falling within hot, warm, and cold access patterns; from testing applications to logs of users running on the systems. Talk about the research/exploration/application work ongoing at your sites on this topic.

Submission Guidelines

Talks fall under one of the themes and are 20-40 minutes, plus 10 minutes for Q&A

Birds of A Feather are 2 or 4-hour hands-on opportunities to train users to use software products or software engineering approaches or have panel sessions

Deadline for submissions is April 1, 2023

We will notify acceptance of papers by May 1, 2023

Author information, lab association, and contact information will be published for attendees in the hopes of future interactions.

Please email ascsssc@sandia.gov for more information.

For information about submitting abstracts and registering for NLIT, see:

fbcinc.com/e/nlit/default.aspx

Committee Members

NNSA
Thuc Hoang
Mike Lang

Lawrence Livermore National Laboratory
Todd Heer
Cyrus Harrison
Todd Gamblin

Los Alamos National Laboratory
Nicholas Jones
Ben Santos

Sandia National Laboratories
Erik Strack
Manoj Bhardwaj
Terri L. Galpin
Tricia Gharagozloo
Dena Vigil



Sandia National Laboratories



Los Alamos
NATIONAL LABORATORY



NNSA
National Nuclear Security Administration



Lawrence Livermore
National Laboratory