ISAV 2016 Program Contents

Keynote
- Exascale Applications: Opportunities and Challenges
  (Douglas B. Kothe, Deputy Associate Laboratory Director, Computing and Computational Sciences Directorate, Oak Ridge National Laboratory)

Lightning Talks
- In-situ data analytics for highly scalable cloud modeling
  (Nick Brown, Adrian Hill, Michele Weiland and Ben Shipway)
- Visualizing the Infeasible: In Situ Analysis of Large-Scale Derived Particle Data for a Fusion Simulation
  (James Kress, Scott Klasky, Randy Churchill, Hank Childs and Dave Pugmire)
- Information Preserving Data Reductions for Complex Operations and the Role of In Situ Methods
  (Dave Pugmire, James Kress, Randy Michael Churchill, Hank Childs and Scott Klasky)
- Integrated Volume Visualization Environment on the Web
  (Takashi Shimizu, Naohisa Sakamoto, Jorji Nonaka, Kenji Ono and Koji Koyamada)

Paper Session i
- A HYDRA UQ Workflow for NIF Ignition Experiments
  (Steven Langer, Brian Spears, J. Luc Peterson, John Field, Ryan Nora and Scott Brandon)
- Scalable and Modular Online Data Processing for Ultrafast Computed Tomography Using CUDA Pipelines
  (Tobias Frust, Guido Juckeland and André Bieberle)
- Asynchronous in situ connected-components analysis for complex fluid flows
  (James McClure, Mark Berrill, Jan Prins and Cass Miller)
- In-Situ Visual Exploration of Multivariate Volume Data based on Particle Based Volume Rendering
  (Takuma Kawamura, Tomoyuki Noda and Yasuhiro Idomura)

Paper Session ii
- Early Investigations Into Using a Remote RAM Pool with the vl3 Visualization Framework
  (Dawid Zawislak, William Allcock, Joseph Insley, Michael E. Papka, Silvio Rizzi and Brian Toonen)
- An I/O Mini-App Dedicated to In Situ Visualization
  (Sean Ziegeler)
- In Situ Statistical Analysis for Parametric Studies
  (Theophile Terraz, Bruno Raffin, Alejandro Ribes and Yvan Fournier)
- The SENSEI Generic In Situ Interface
  (Utkarsh Ayachit, Brad Whitlock, Matthew Wolf, Burlen Loring, Berk Geveci, David Lonie and E. Wes Bethel)
- Visualization and Analysis Requirements for In Situ Processing for a Large-Scale Fusion Simulation Code
  (James Kress, Dave Pugmire, Scott Klasky and Hank Childs)

Panel Discussion