

# Data in Motion: Scientific Infrastructure

**Panelists:** Andrew Connolly (Washington), Peter Fox (RPI),  
Nicholas Schwarz (Argonne)

**Moderator:** Salman Habib (Argonne)

- ▶ We are living in a data-saturated world; dealing with scientific datastreams comes with its own challenges — this panel will focus on the theme of “infrastructure”, broadly interpreted
- ▶ Must confront a huge variety of data-intensive tasks at various scales and in many contexts
  - Data management/services (including access)
  - Real-time/streaming analysis (data “in the loop”)
  - Distributed systems/“edge” computing
  - Data curation and archiving
  - Software and hardware optimized for data-intensive tasks
  - Community readiness
- ▶ There is a simultaneous need for 1) global solutions driven by the problem scale as well as 2) flexibility to adapt to local community requirements, which can vary widely

- ▶ Moderator introduction to session
- ▶ Prepared remarks
  - Andrew Connolly
  - Peter Fox
  - Nicholas Schwarz
- ▶ Panel questions (moderator)
- ▶ Panel questions (floor)