

Breakout sessions

- Results reported back to full group and contribute to final written report
- 8:30 – 9:30:
 - Session 1: Sources of Uncertainty in Computation
leader: Ross Whitaker; Embassy Boardroom
 - Session 2: Making Sense of Uncertainty in Computation
leader: Donald House; Governor's Boardroom
- 9:30 – 10:30:
 - Session 3: Integrating Disciplines
leader: Chris Johnson; Governor's Boardroom
 - Session 4: Learning from Experience,
leader: Joanne Wendelberger; Embassy Boardroom

Breakout sessions 1 and 2: open problems

1) What are the un(der)recognized, poorly understood, or unrealized opportunities for improving our understanding and utilization of uncertainty in computation? 2) What are fundamental technical and non-technical barriers to making progress on the above? 3) What are the basic and applied scientific questions that these barriers pose?

- 1: sources of uncertainty in computation (uncertainty quantification in simulation science and data science)
 - leader: Ross Whitaker
- 2: making sense of uncertainty in computation (communication and decision making)
 - leader: Donald House

Session 3: integrating disciplines

How can we best bring together the disparate areas of expertise relevant to uncertainty in computation, ranging from uncertainty quantification to decision science, so as to approach the problem in a holistic manner.

- leader: Chris Johnson

Session 4: learning from experience

Identify existing use-cases that demonstrate successful approaches for working with uncertainty in computation, describe guiding principles that generalize across these examples, compare and contrast different types of approaches, and highlight key open problems that need to be addressed in order to more effectively deal with uncertainty in computation in different types of settings.

- leader: Joanne Wendelberger