

# Program

SeRC 15:th Annual Meeting, May 16-17 2024, Villa Aske

## **Thursday 16/5**

- 11.00 (Sharp) **Chartered buses** leaves from KTH, Lindsteds väg 3 (registration needed)
- 12.00 **Lunch**
- 13.00-13.15 **Welcome**  
Dan Henningson, SeRC Director, KTH
- 13.15-14.00 **Some Data Science Challenges for the Next Generation of NASA's Earth Observing Satellites**  
Amy Braverman, NASA Jet Propulsion Laboratory
- 14.00-14.45 **MCP short presentations**
- Robust and safe artificial intelligence for prostate cancer pathology***  
Kimmo Kartasalo, KI (eMPHasis)
- Stable Flow Matching***  
Christopher Iliffe Sprague, KTH (Data Science)
- TBA**
- Bastiaan van Hoorn, KTH (MD2)
- Subglacial plume dynamics using a conservative high-order finite element method***  
Lukas Lundgren, SU (M3)
- 14.45-15.15 **Coffee**
- 15.15-16.00 **Challenges in scientific computing for e-science**  
Wil Schilders, Eindhoven University of Technology
- 16.00-16.30 **NAISS**  
Björn Alling
- 16:30 - 17:00 **NAISS User Support - Panel Discussion**  
Erik Lindahl
- 17.00-17.30 **Presentation of invited master students**  
Ingrid Hotz
- 17.30-19.00 **Posters & Refreshments**
- 19.00 **Dinner**

## **Friday 17/5**

- 9.15-10.00 **Simulation neuroscience: a topological perspective.**  
Kathryn Hess Bellwald, École Polytechnique Fédérale de Lausanne (EPFL)
- 10.00-10.30 **Coffee**
- 10.30-11.15 **Computational problem solving: what tools are needed for the e-sciences?**  
Peter Schmid, King Abdullah University of Science and Technology (KAUST)
- 11.15-11.45 **MCP Short presentations:**

***Advancing Computational Fluid Dynamics to Exascale with SOD2D***

Mohammad Umair, KTH (SESSI)

***Sensitivity Approximation for Ordinary Differential Equation Systems***

Andrei Kramer-Miehe, KI (Brain-IT)

***Feature-driven scientific data visualization through Topological Data Analysis***

Talha Bin Masood, LiU (Visualization)

11.45-12.00

**Closure & Poster Prize**

Dan Henningson

12.00

**Lunch**

13.00 (Sharp)

**Chartered buses** leaves from Villa Aske for KTH (registration needed)

***Connected meeting: Advisory- and Steering-group meeting, May 16, 10.00-12.00***

