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) *An Analytical Free Energy Expression in Empirical Valence Bond Theory* 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)

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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