# Program

## SeRC Annual Meeting, May 12-13 2022, Villa Aske

### Thursday 12/5

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| 12.00 | **Lunch** |
| 13.00-13.10 | **Welcome**<br>Dan Henningson, SeRC Director, KTH |
| 13.10-13.50 | **Next-generation climate models**<br>Thorsten Mauritsen, Department of Meteorology, Stockholm University |
| 13:50-14.30 | **Viewing Anthropogenic Change Through an AI Lens**<br>Elizabeth Barnes, Colorado State University<br>ONLINE |
| 14.30-15.00 | **Coffee** |
| 15.00-15.40 | **DestinE: opportunities & challenges for digital twins of the Earth System**<br>Nils Wedi, ECMWF, Bonn |
| 15.40-16.20 | **How Swedish climate adaptation is informed by climate models**<br>Erik Kjellström, SMHI |
| 16.20-16.30 | **Short break** |
| 16.30-16.45 | **Visualization infrastructure**<br>Anders Ynnerman, LiU |
| 16.45-17.45 | **Computing Infrastructure**<br>Short presentations and panel discussion, chair Erik Lindahl, KTH/SU<br>(Anders Ynnerman, Thor Wikfeldt/Lilit Axner, Erik Lindahl) |
| 19.00 | **Dinner** |

### Friday 13/5

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| 09.00-9.30 | **FAIR workflows**<br>Carole Goble, University of Manchester<br>ONLINE |
| 9.30-10.10 | **Short presentations CLIMATE** |

- **Maura Dewey**, SU: “Climate model emulators: development and potential applications”
- **Ramsha Khan**, SU: “Emulation of a Single Column Atmospheric Model: Quantifying Sensitivity of Radiative Forcing to Model Parameters”
- **Peter Kuma**, SU: "Machine learning of cloud types shows higher climate sensitivity is associated with lower cloud biases".
- **Josefin Ahlkrona**, SU: “Improving the Efficiency of Ice Sheet Models”

10.10-10.35 **Coffee**

10.35-11.35 **Short presentations all MCPs**

- **Milda Poceviciute**, LiU: “Improving robustness of deep learning systems for digital pathology” (Data science)
- **Yinxi Wang**, KI: "Extracting novel information from routine breast cancer histopathology images using deep learning” (eCPC)
- **Talha Bin Masood**, LiU: "From data to insight through visual analysis: An application to the study of electronic transitions". (Vis)
- **Niclas Jansson**, KTH: “Neko: A Modern, Portable and Scalable Framework for High-Fidelity Computational Fluid Dynamics” (SESSI)
- **Joel Davidsson** ,LiU: “A High-Throughput Search of Point Defects in silicon carbide” (DCMD)
- **Pawel Herman**, KTH: “Brain-like computing: what is all that fuss about?” (Brain-IT)

11.35-11.45 Closure

11.45 **Lunch**