

Weather Prediction at Exascale 1st Workshop

NelC Community Forming Pre Study - Onboarding and scoping of activities

**Oslo, June 2nd to June 3rd 2022 lunch-to-lunch
and pre-meeting June 1st**

The introduction of accelerators and novel hardware architectures (e.g. GPUs, FPGAs and CGRAs) for HPC promises large performance increases, but also requires substantial refactoring and rewriting of existing code bases.

Topics: Successfully onboarding experts for “porting” of large model systems to new hardware architectures, strategy, tooling, methods for refactoring, etc.

This workshop will be used to inform the later workshops with regards to scope, content, and participants.

Note! This is a two-day lunch-to-lunch Workshop. We start with lunch on the 2nd and end with lunch on the 3rd of June 2020. There will be a preparatory WS meeting at the [NelC Conference](#), Wednesday the 1st of June at 14:00 for those who can attend.

Program

Wednesday 01-06-2022

14:00 -16:00 Preparatory meeting NelC conference Soria Moria Hotel

Thursday 02-06-2022

12:00 Lunch

13:00 Introduction

13:30 David Keyes – Introductory talk: Current and future trends in HPC

14:00 Probably Carlos Osuna, Team lead DSL and GPU development at Meteo Swiss - COSMO/ICON GPU

14:30 Coffee

15:00 ? – AMD and/or LUMI (with focus on utilizing the AMD GPUs)

15:30 Nvidia

18:30 Dinner at: nice place

Friday 03-06-2022

08:00-09:30 Breakfast

09:30 Rolf Heilemann Myhre – ACCORD WP on HPC/GPU

10:00 DestinE or alternatively Lars/Ulf/Ole? – MetCoOp/UWC

10:30 Discussion

12:00-13:00 Lunch

End of Workshop

Send invitation to:

- MetCoOp
- UWC
- ACCORD
- FMI, MET Norway, SMHI, and Estonian Environment Agency (selected groups/employees?)