

## Statement from the Nordic/Baltic Synchrotron Radiation Initiative

At MAX-lab in Lund an ultra brilliant next generation Synchrotron Radiation Facility (MAX IV) has been proposed. The Swedish Research Council has invited the other Nordic/Baltic countries to participate in this project. MAX IV can be organized as a Nordic/Baltic synchrotron radiation source with outstanding properties.

Leading researchers from the synchrotron radiation communities from the Nordic and Baltic countries met at Jaegtvollen Conference Centre in Trøndelag, Norway April 14-16 for a *Nordic/Baltic Synchrotron Radiation Initiative Kick-off Meeting (NSRI)*. Representatives from the national funding agencies in the Nordic states and NordSync were also present, together with European scientists involved in running the ESRF, DIAMOND, the Swiss Light Source and the Swiss-Norwegian beamline at the ESRF. The perspectives for future x-ray based science were discussed in depth in the context of the European Roadmap and the MAX IV role in this.

The meeting concluded:


- The project will be a significant Nordic contribution to European capacity in Synchrotron Radiation, which is also necessary for satisfying Nordic/Baltic requirements.
- MAX IV as a complementary facility to the ESRF will be an important regional asset. Other ESRF member countries are either planning, constructing or operating national synchrotron sources. The NSRI considers the need for MAX IV within the Nordic region to be essential.
- We note that the MAX IV project will be the worlds most advanced storage ring with an emittance close to the theoretical limit.
- The addition of an ultra-short pulse facility would open up future research opportunities for time dependent x-ray science.
- The MAX IV project should be realized as a regional Nordic/Baltic facility for advanced x-ray based research.
- The MAX IV project would support industrial research in the Nordic/Baltic region.
- A joint Nordic/Baltic SR source should be complemented by efforts to create a viable educational network for progress in many fields of advanced research.
- The MAX IV project would create a unique source which is crucial for maintaining a forefront position for Nordic/Baltic research.
- The MAX IV technical and scientific cases are mature and already approved by the Swedish Research Council


- The business model is under preparation and should be finalized as soon as possible in order to proceed with a concrete proposal to the possible Nordic/Baltic stakeholders
- The universities, research organizations and their funding agencies in all the Nordic/Baltic countries should immediately start to map their interest in the MAX IV project as a response to the invitation from the Swedish Research Council in order to facilitate a fast decision making mechanism
- **The project should start as soon as possible** in light of the nanotechnology developments and the urgency of the environmental and renewable energy needs. With the present mature status of the planning a rapid executive decision is required if the construction phase is to start early 2009 and be completed by 2012

Finally, the meeting urges the national research councils to respond timely and positively to the invitation from the Swedish Research Council to ensure that the Nordic/Baltic researchers can participate in the construction of MAX IV and influence scientific direction of the facility.

This document has been unanimously approved by the meeting and is signed by one participant from each country

Jegtvolden, 16 April 2008

  
Doc. Kenny Ståhl (Denmark)

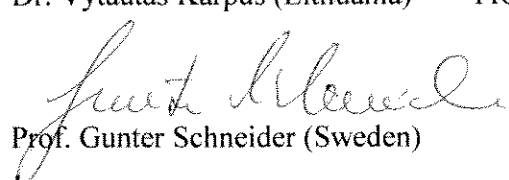
  
Director Ergo Nõmmiste (Estonia)

  
Prof. Keijo Hämäläinen (Finland)

  
Dr. hab. phys. Juris Purans (Latvia)

  
Dr. Vytautas Karpus (Lithuania)

  
Prof. Arne Smalås (Norway)

  
Prof. Gunter Schneider (Sweden)

**Appendix:** List of participants at the NSRI meeting.