EDA 43rd Materials CapTech met at the European Spallation Source in Lund.

3-5 June 2019, European Spallation Source & Dept. Electrical and Information Technology/Univ. Lund, Lund (SE)

Attendees: average of 40 experts along three Materials CapTech days, from 16 countries (15 pMS (BE, CZ, DE, EL, ES, FR, IT, NL, PL, PT, RO, SI, SK, SE, UK) + NO), including representatives from MoDs, Industry, SMEs, RTOs and academia of the Materials & Structures CapTech.

The 43rd EDA Materials CapTech took place in Lund on 4-5 June 2019, kindly hosted by the European Spallation Source. ESS is an international collaboration, one of the largest science and technology infrastructure projects being built today. The facility design and construction include the most powerful linear proton accelerator ever built, a five-tonne, helium-cooled tungsten target wheel, 22 state-of-the-art neutron instruments, a suite of laboratories and a supercomputing data management and software development centre. ESS will start the scientific user programme 2023 and the construction phase will be completed by 2025.

The 3 days agenda of the 43rd Materials CapTech included also a workshop dedicated to "Computational design for advanced materials & structures in defence". The workshop was kindly hosted by the Department of Electrical and Information Technology of Lund University. It was split in two sessions:

1. Non-Newtonian fluids
2. Radome materials

Very constructive discussions during the workshop pave the way for further ambitious activities, such as the development of projects in these fields.

The Materials CapTech members have discussed about the roadmapping process of the Technology Building Blocks. The second roadmapping cycle of 2019 will start after this meeting and will continue up to the end of the year. It will focus on three technology building blocks of the Materials & Structures Strategic Research Agenda.

At the end of the CapTech meeting, the members visited also the MaxIV facility, close to the ESS. MaxIV is the Swedish national synchrotron light source and the largest investment in research infrastructure in Sweden ever. The project has its foundation in 30 years of research and experience from Lund University with its three previous accelerators (MaxI, MaxII, MaxIII). MaxIV is currently the brightest X-ray light source in the world and the 4th generation diffraction limited synchrotron facility with unprecedented capabilities in terms of brilliance and coherence.

All the presentations and related documentation are available to the CapTech members in EDA ECP workspace of the Materials CapTech at the following link:
https://ecp.eda.europa.eu/R/CapTech_Materials/Documents/Forms/AllItems.aspx?RootFolder=%2FR%2FCapTech%5FMaterials%2FDocuments%2F2%2E%20Meetings%2F02%2E1%20CapTech%20Meetings%2F43%5F2019%2D3%2D5%5F06%2DLund%20SE%2Fpresentations&FolderCTID=0x01200036489845E2C43A4FBC07EEF7B1A18AEB&View=%7B9D61713C%2D71F1%2D45CA%2DAD7C%2D2C301B33C504%7D