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SCANDEM Board

With updated profiles



SCANDEM

Executive Board

President



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Kesara Anamthawat-Jónsson, Professor Emerita. KAJ's main field of research is plant genetics. Her educational background is in botany (BSc honours, Chulalongkorn University, Bangkok), plant physiology (Fulbright recipient, MA, University of Kansas) and molecular cytogenetics (PhD, Cambridge University, Churchill College). KAJ began her scientific career in (plant & human) cytogenetics and expanded into plant molecular genetics, cytogenomics and fluorescence microscopy. She has worked with two main groups of plants: birch (*Betula*) tree that forms natural woodland in the sub-arctic region, and lymegrass (*Leymus*) group including new cereal crop *Triticoleymus*. KAJ has published ca. 273 peer-reviewed research papers and reviews in scientific journals and books (hi-index 33; i-10 index 73) and has graduated several research students from Icelandic, Nordic, European and Asian universities. She organized and chaired SCANDEM-2009 and 2017 in Iceland. She led SCANDEM to winning the bid to organize EMC-2020 in Copenhagen, which was cancelled force majeure, but SCANDEM is trusted to reorganize it as EMC-2024.

Vice President and Secretary General



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Professor **Per Persson** of Linköping University. Persson graduated in 2001 with a thesis on high resolution electron microscopy of structural defects in semiconductors. Having worked as post-doctoral fellow and guest researcher on three continents, Persson returned to Linköping university in 2007 and was appointed as Special Researcher in “Electron microscopy imaging and chemical analysis with atomic resolution in structural chemistry and Nanoscience” by the Swedish Research Council. In 2009 Persson outlined the specifications for the most noise free microscopy environment in northern Europe, Ångströmhuset, wherein he installed a monochromated, double corrected microscope in 2011. Perssons research comprises primarily the 2nd generation of tailored 2D materials along with semiconductor structures and metastable hard coatings. Persson organized the SCANDEM 2014 conference in Linköping.

Treasurer



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Salla Marttila, PhD, Swedish University of Agricultural Sciences (SLU), campus Alnarp. Treasurer of the SCANDEM Society. Coordinator for confocal microscopy at SLU Alnarp. Responsible for the Electron Microscopy Unit at SLU Alnarp 2000-2013. Experienced in biological electron microscopy, especially plant tissues. Co-supervisor and evaluator of several PhD theses as a microscopy expert on plant material. Co-author in 36 peer-reviewed papers and two book chapters. Organizer and teacher in several PhD courses on microscopy methods.

Information Officer



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Lassi Paavolainen (PhD) is Academy of Finland Research Fellow and Principal Investigator of Bioimage Profiling research group at the Institute for Molecular Medicine Finland (FIMM), HiLIFE, University of Helsinki, and the PI of Life Science Data Competence Center established in 2023 in University of Helsinki. He obtained his PhD in bioimage analysis methods and software in 2013 from University of Jyväskylä, Finland, and worked with high-content image analysis during his Postdoctoral work at FIMM. His current research focuses on uncovering complex information from microscopy images of cells and tissues using machine learning. His research group develops novel deep learning methods and models for bioimage analysis and applies these solutions for cancer sample spatial profiling. Since 2010, Dr. Paavolainen has been the Information Officer of the Nordic Microscopy Society.

Representatives from Sweden



Tom Willhammar
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Tom Willhammar, Docent in Materials Chemistry at Stockholm University, is Sweden representative for materials science in SCANDEM Board. His research circles around electron microscopy, electron diffraction and its applications on structural characterization of materials. Keys to an increased understanding of the properties of new materials are embedded in their structures, ranging from the mesoscale down to the atomic level. Electron microscopy provides important tools to reveal such information. My main research interest comprises methods such as scanning electron diffraction, 3D electron diffraction, as well as (S)TEM imaging from the mesoscale down to the atomic scale. I work on a wide range of material systems with recent focus including cellulose-based materials, zeolites and MOFs.



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Julia Fernandez-Rodriguez (PhD) is representing Sweden and Life Sciences on the Board of SCANDEM. She has more than 20 years of experience in light and electron microscopy and has established as Head of the National Centre for Cellular Imaging, Core Facility at the Sahlgrenska Academy, University of Gothenburg. Her main scientific area is Biochemistry and Cell and Molecular Biology. Main organizer and teacher in several national and international workshops, symposiums and PhD courses. Author of more than 40 research articles, reviews and book-chapters. Active member of the European Light Microscopy Initiative (ELMI) since 2003. Vice-president of the Core Technology for Life Sciences (CTLS) Association. Swedish Member of the Management Committee of the COST Action CA15124 “Network of European BioImage Analysts to advance life science imaging -NEUBIAS-” (2016-2020), and the COST Action CA17121 “Correlated Multimodal Imaging in Life Sciences” (2019-2022). She is organizing SCANDEM 2019 in Gothenburg.

Representatives from Denmark



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Søren Fæster. Senior scientist at the Technical University of Denmark, Department of Wind Energy and Energy Systems, Risø Campus. Søren Fæster is the Danish representative for materials sciences on the Board of SCANDEM. He is responsible for three scanning electron microscopes, and he often uses imaging techniques like X-ray tomography in his research. He graduated in 2001 from Copenhagen University with a thesis on synchrotron X-ray radiation and deformation studies of aluminium and has as post-doc worked on technique development on electron microscopes and at synchrotron beamlines. Søren is in his present position focusing on characterizing drive train components in wind turbines with the ambition of improving the service lifetime of wind turbines. He has worked one year at Lawrence Berkeley National Laboratory, USA, on electron holography and received in 2005 the FEMS lecture award for excellence in materials science and engineering.



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Klaus Qvortrup (KQ), Professor, MD, PhD, Dip RMS, Director CFIM. KQ is Denmark representative for life sciences in SCANDEM Board. He has more than 30 years of experience with light and electron microscopy and has established and is director of CFIM (Core Facility for Integrated Microscopy, www.cfim.ku.dk) at the Faculty of Health, University of Copenhagen. CFIM features state-of-the-art electron and confocal microscopes dedicated for life sciences research. KQ has published 125 publications in international peer reviewed journals. He organized and chaired SCANDEM-2013 in Copenhagen. He is chair of EMC-2020, the 17th European Microscopy Congress, in Copenhagen, which has become EMC-2024 (<https://www.emc2024.eu/>), and serves in that respect the European Microscopy Society Executive Board as member until 2028.

Representatives from Norway



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Professor **Randi Holmestad**, Department of Physics, Norwegian University of Science and Technology -NTNU, in Trondheim, Norway.

Holmestad's present research interests are within transmission electron diffraction and microscopy (TEM), materials microstructure and the relations to macroscopic properties. Recent projects have been focused around aluminium alloys design - precipitation and microstructure. She has also activities on oxide materials, solar cell materials and quantitative electron diffraction. She has published 160 papers and educated ~50 master students and 12 PhD students. Holmestad is currently a member of the EMS and SCANDEM boards. She is organizing the Nordic microscopy conference SCANDEM-2016 in Trondheim in June 2016.



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Ingunn H. Thorseth is Professor at Department of Earth Science/Centre for Deep Sea Research at University of Bergen (UiB). Her research interests are on water-rock-microbe interactions and her work has mainly been focused on microbial life and (bio)geochemical processes in the ocean crust and in deep-sea hydrothermal vents, mineral deposits and sediments. Electron microscopy combined with various biomolecular and geochemical analyses of solids and fluids are essential methods in her research. She is head of the Electron Microscopy Laboratory for natural science research at UiB and has served on several conference and workshop organizing committees, including two annual SCANDEM conferences.

Representatives from Finland



*Tampere Microscopy Center and Materials Characterization Group. Faculty of Engineering and Natural Sciences. Tampere University, FINLAND
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Professor **Minnamari Vippola** is head of Tampere Microscopy Center as well as leader of Materials Characterization group at Tampere University. Main research areas include various aspects of comprehensive microstructural characterization for understanding the properties and the performance of materials and for developing the characterization methodologies. She has been member of SCANDEM Board since 2012. Activities in electron microscopy conference organization include the participation in organization of SCANDEM Annual Meeting of the Nordic Microscopy Society in Tampere Finland in June 2002, the position as conference secretary of Electron Crystallography School 2002, the 8th Euro Summer School on Electron Crystallography held in Tampere Finland in June 2002, the position as member of Scientific Committee of SCANDEM Annual Meeting of the Nordic Microscopy Society in Espoo, Finland, in June 2007, and responsible organizer of the SCANDEM Virtual Annual Meeting of the Nordic Microscopy Society in Tampere Finland on June 2022.



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Research Director **Eija Jokitalo** has been the head of the Electron Microscopy Unit (EMBI) of the Institute of Biotechnology, University of Helsinki, since 2001. Jokitalo was the founding chair of the national Electron Microscopy Technology Platform in 2009, and currently is the chair of Biocenter Finland national BioImaging Platform comprising of 12 imaging units offering light and electron microscopy services. EMBI specializes on volume electron microscopy and correlative light and electron microscopy techniques and image analysis including software development. Jokitalo research group focuses on organelle structure and interactions within cells. Jokitalo has published over 135 peer-reviewed publications and has h-index 45 (WoS). Jokitalo has been a board member of SCANDEM since 2012, a member of the scientific committees of the SCANDEM meetings in 2007 (Espoo), 2011 (Oulu), 2017 (Reykjavik) and 2022 (Tampere), a session chair in the EMC16 in Lyon, a member of the International Advisory board of IMC19 in Sydney, and currently the vice chair and Life Science Symposium chair of EMC2024 in Copenhagen.

Representative from Iceland



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Professor **Unnar B. Arnalds** is a Senior Research Scientist of solid state physics, materials science and nanotechnology at the Science Institute of the University of Iceland. He is Iceland representative for materials sciences in SCANDEM Board. Unnar received his PhD in physics in 2012 from Uppsala University and has worked at the University of Iceland since 2014. His research interests include magnetic thin films and nanostructures, magnetron sputtering, artificial spin ice systems and transition metal oxides. His work includes materials characterization using X-ray scattering and scanning probe techniques and the use of synchrotron facilities for scattering measurements and magnetically sensitive imaging. He served in the organizing committee for SCANDEM-2017 conference in Iceland.

Trade Representative



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Michael Andersson is SCANDEM Trade Exhibition Officer. Over the years he has coordinated trade exhibitions in ten SCANDEM annual meetings, including the upcoming event SCANDEM-2023 in Uppsala. Michael Andersson is the owner of XSPECT Solutions AB representing Bruker Analytics, Fischione, Nanomegas, Protochips and Spicer Consulting for Nordic and Baltic countries.

Conference Officer



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Jakob B. Wagner is nominated by SCANDEM board as conference officer, effective from February 2018.

JBW did his master's in physics at University of Southern Denmark, Odense in 1999, and PhD at University of Copenhagen in collaboration with Haldor Topsøe A/S. After completing his PhD in 2002, he continued as a post doctoral fellow at the Fritz Haber Institute in Berlin, Germany, before he continued to a post-doctoral fellow position in 2005 at Lund University, Sweden. In 2007 he became a senior researcher at the newly started Center for Electron Nanoscopy at the Technical University of Denmark, where he became Scientific Director and Professor in 2013. He is responsible for the overall scientific use of the electron microscopy facility along with teaching and lecturing at various courses and workshops in advanced electron microscopy. He is chair of SCANDEM-2018 at DTU Lyngby and is vice-chair of EMC-2020/2024 in Copenhagen.

He has co-authored more than 100 papers, where electron microscopy has played a major part in structural and spectroscopic characterization of materials including catalysts nanoparticles, semiconducting nanowires, carbon nanotubes, graphene and other 2D materials.