

Andreas Schreyer Begins Work as the New Director for Science at ESS

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Management. Opening the new year, Andreas Schreyer took over as the new Director for Science at the European Spallation Source. A career neutron scientist and former director at HZG's Institute for Materials Research, Schreyer has long been active in the ESS collaboration in his role spearheading the German contribution to the project.

LUND—On January 11, Andreas Schreyer replaced outgoing European Spallation Source (ESS) Science Director Dimitri Argyriou, whose five-year contract came to an end. Professor Dr. Schreyer comes to ESS from Helmholtz-Zentrum Geesthacht (HZG), where he was both head of the Materials Physics division at the director level for the Institute of Materials Research, as well as the head of GEMS, the German Engineering Materials Science Centre.



Prof. Dr. Andreas Schreyer took over as Director for Science at ESS on January 11, 2016. PHOTO: ESS

Schreyer has been deeply engaged with the ESS project since 2011, having served as the head of two steering committees for the German contribution, as a German representative on the ESS Instrument Collaboration Board (ICB), and as the co-proposer of [BEER](#), Europe's next flagship engineering diffractometer selected for the ESS instrument suite.

'We are very pleased to welcome Andreas Schreyer as the new Director for Science at ESS,' said James Yeck, Director General of ESS. 'His role leading the German contributions to the ESS Design Update and their national In-Kind Contributions to the ESS construction



project; his management experience at large scale neutron and synchrotron facilities; and his strong history and interest in supporting collaboration on instruments make Andreas an excellent choice for the ESS executive management team.”

Infrastructure, Instruments and Scientific Excellence

Schreyer now oversees the Science Directorate of ESS, which holds responsibility for the scientific infrastructure and the neutron instruments being designed and built for ESS. Schreyer will oversee [five divisions](#) at ESS, including the Data Management and Software Centre ([DMSC](#)) in Copenhagen. In addition, he will chair the ICB, an advisory board for the Neutron Scattering Systems (NSS) project made up of representatives from all NSS partner institutions.

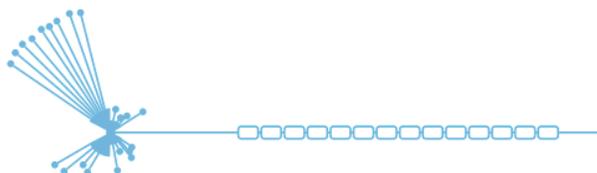
‘I’ve been involved with the ESS project from the outside so far, and I’ve seen it grow and seen very good work and very important decisions on the instrument suite being taken,” said Schreyer. ‘We’re actually now in a status where we know what we want to build and what the instrument suite is supposed to be. It was a long process, but it was important to go through because it helped to involve all the great partners from Europe, which we need here to make the ESS in-kind model work.”



ESS directors, from left, Schreyer, Director General Jim Yeck, Director for Project Support & Administration Agneta Nestenborg, Technical Director Roland Garoby, and former Director for Science Dimitri Argyriou. PHOTO: ESS

An Inveterate Collaborator

Schreyer earned his PhD in solid-state physics in the 1990s at the Ruhr-University Bochum in Germany, using neutrons at the National Institute of Standards and Technology (NIST) in the US. His career path has since gravitated toward large-scale facilities through his appreciation of research and international collaboration. He has worked at Europe’s flagship neutron science facility, the Institut Laue-Langevin (ILL) in Grenoble, France, where he built the reflectometer [ADAM](#) for his studies of nanomagnetism. In 2001, Schreyer



became a professor at the Institute of Applied Physics at the University of Hamburg, and was named head of the Materials Characterisation with Neutrons and Photons department at HZG.

It was as a department head at HZG that Schreyer began to find his way to the centre of the German science community. He was responsible for the PNI (Research with Photons, Neutrons, and Ions) programme of the Helmholtz Association, the umbrella organisation of the German national labs that funds large-scale science facilities in Germany. Schreyer also managed HZG collaborations with the synchrotron X-ray source PETRA III at DESY and the Heinz Maier-Leibnitz (FRM II) reactor at Garching.

In 2006, Schreyer became a director of HZG's Institute of Materials Research and the head of GEMS, with responsibility for large-scale facilities. Here he managed work on applied materials design, instrument building and the facility's user program.

'The science of ESS is in very good hands'

The major goal for the Director and the entire ESS management team during 2016 will be to deliver a firm schedule to the ESS Council for the engineering design, construction and commissioning of the first 16 instruments to be built at ESS.

'By the end of the year we should be able to make a concise proposal that is aligned with our in-kind partners as to how we do it and which instruments should be finished by when,' said Schreyer.

It was outgoing director Argyriou who saw ESS through the three-year, peer-reviewed selection process for these first 16 instruments, and who has brought the first group into the engineering design phase. While he will remain as Head of Operations Planning at ESS, Argyriou passes on the responsibility of scoping, resourcing and delivering the instruments to Schreyer and the ICB.

'Andreas is a friend and colleague that I hold in the highest esteem,' said Argyriou. 'He is a great supporter of ESS and has been involved deeply with the science program since the beginning. The science of ESS is in very good hands.'.

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