

Catalyst for chemical innovation

Electron diffraction is one of the fastest developing and most exciting areas of crystallography and a key discipline for innovation in the chemical industry. ELDICO Scientific invites to a webinar on Electron Diffraction with Dr. Bernd Hinrichsen, BASF

Villigen (PARK INNOVAARE, PSI/West), February 4, 2021 – ELDICO Scientific AG, a Swiss manufacturer of innovative electron diffractometers, invites to a webinar on history, current applications, and future perspectives of electron diffraction in the chemistry industry.

Title: ‘Electron diffraction in the chemical industry: The long history and the bright future’

Speaker: Dr. Bernd Hinrichsen, Head of XRD, electron microscopy and NMR labs, BASF

Day & time: 11th of February 2021, 15.00 – 16.15 pm CET (Duration: 75 min)

Registration to the webinar can be carried out at the following link:

https://us02web.zoom.us/webinar/register/WN_7PeRCi_VStuHO_tGDPcoow

Electron Diffraction, or microED - how this new analytical technique is labelled in the Anglo-Saxon countries - was named a Top 5 "Breakthrough of the Year 2018" by the world-renowned journal *SCIENCE*. As such, it is one of the fastest developing and most exciting areas of crystallography and a key discipline for innovation in the chemical industry. Over the past decades, electron diffraction has been a regular tool during analyses of inorganic materials and, while applying fundamental principles of crystallography, such as continuous rotation, it will become key in polymorph analyses, battery, catalysis research and now more strongly in the field of polymers. Electron diffraction has the potential to influence all these fields.

Our speaker, Dr. Bernd Hinrichsen, Head of XRD, electron microscopy and NMR labs with one of the world's leading chemical manufacturers - BASF - talks about the novelty of the electron diffraction technique and presents an ABC on nano-crystallography. Participants can expect valuable insights from the chemical industry, best practices, commercial aspects and understand the full disruptive potential of electron diffraction as a new approach to chemical and materials research. "The method is on the verge of a breakthrough and will change the world of experimental crystallography", says Bernd Hinrichsen about the value of electron diffraction.

Trained chemist at Cologne University, Bernd Hinrichsen received his PhD from the Stuttgart Max Planck-Institute (MPI) for Solid State Research in 2007. After 3 years as an Application Scientist XRD at Bruker AXS in Karlsruhe - the world's market leader in X-ray crystallography - Hinrichsen has worked with BASF in Ludwigshafen for a decade. The accrued experience and good funding have made electron microscopy a very powerful tool for BASF's research, which has recently taken up the challenge of collecting and analysing electron diffraction data.

Photo caption:	Changing the world of experimental crystallography: Register now for the ELDICO-webinar with guest speaker Dr. Bernd Hinrichsen from BASF
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About ELDICO Scientific AG

ELDICO Scientific AG (The Electron Diffraction Company) is a Swiss hardware company founded in 2019 and based in the [Switzerland Innovation Park Innovaare](#) at the Paul Scherrer Institute (PSI), a globally leading Swiss research institute for natural and engineering sciences. ELDICO develops, manufactures and sells novel instruments for electron diffraction in crystallography, enabling nanocrystalline solid state analysis in the sub-micrometer range. Specific instruments are not yet available on the market today. ELDICO will be launching the first instrument specifically designed for nano-crystallographic investigations. The proof of concept was achieved in 2018 (ETH Zurich, C-CINA Basel) on scientifically and industrially relevant samples. It was published in 2018 and awarded as a Top 5 "[Breakthrough of the Year 2018](#)" by leading scientific journal *SCIENCE*. In 2020, ELDICO took second place in the competition for the prestigious pioneer prize awarded by Technopark Zurich and the Zürcher Kantonalbank (ZKB). www.eldico-scientific.com

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