

# Eighth Conference on Frontiers of Aberration Corrected Electron Microscopy at Kasteel Vaalsbroek in the Netherlands, 21–25 April 2024

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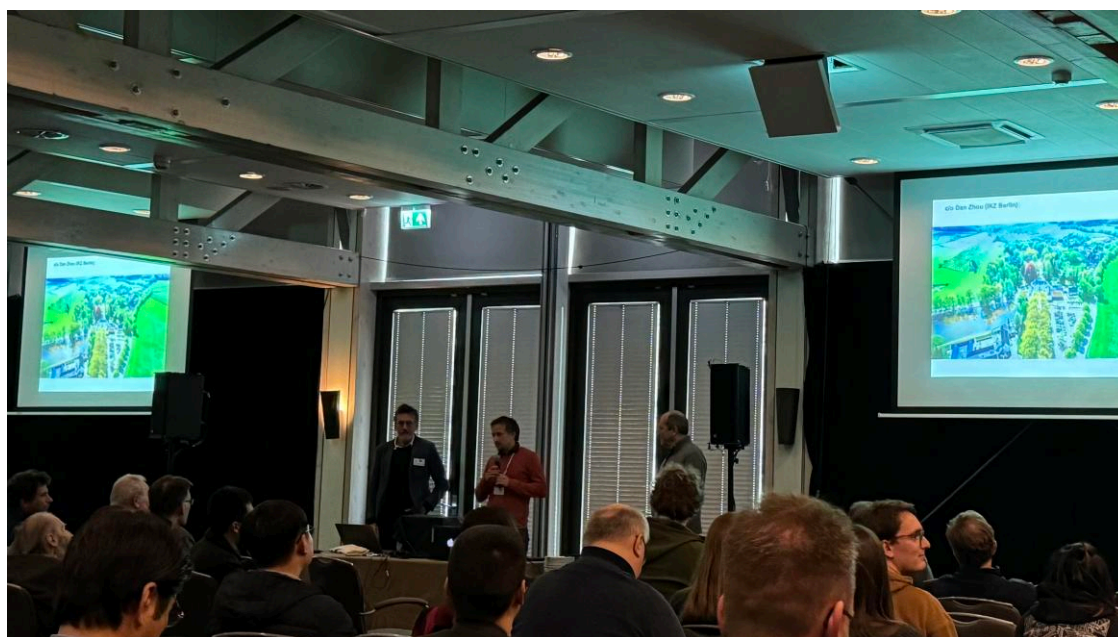
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PICO 2024, the Eighth Conference on Frontiers of Aberration Corrected Electron Microscopy, took place at Kasteel Vaalsbroek in the Netherlands, between 21 and 25 April 2024. PICO is one of the most prestigious conferences in this research field and has provided an excellent and inspiring opportunity to communicate the latest scientific discoveries and technological developments. PICO 2024 was organized by the Ernst Ruska-Centre, a national infrastructure jointly operated by Forschungszentrum Jülich and RWTH Aachen University. The conference has attracted more than 240 participants from 25 countries throughout the world, and the program committee has put together an oral program including 58 scientific keynote lectures.

The scientific program of PICO 2024 contained a wide range of presentations focusing on recent advances in methods and applications for the study of structural and electronic properties of condensed matter by the application of advanced transmission electron microscopy techniques in solid-state research and the life sciences. Topical issues of aberration-corrected electron microscopy research on (1) advanced methods and instrumentation, (2) materials science applications, (3) dynamic phenomena and in situ techniques, (4) cryo-microscopy methods and applications, and (5) novel techniques and approaches were highlighted in keynote presentations given by leading invited experts.



**Fig. 1.** Rafal Dunin-Borkowski, Carsten Sachse, and Joachim Mayer welcoming attendees to the meeting. The image was taken by John Mansfield.

The meeting came along with three colloquia held to honor the scientific careers of Dirk van Dyck (Antwerp, Belgium), Marin van Heel (Campinas, Brazil), and Hamish Fraser (Columbus USA) on the occasion of their special birthdays (Fig. 1).

The event was gratefully supported by the following companies: TFS Life Science, TFS Materials Science, JEOL, BRUKER, CEOS, CONDENZERO, CRYOCLOUD, CRYOSOL, DECTRIS, DENSSOLUTIONS, GATAN EDAX AMETEK, HITACHI, NANOMEGAS, PROTOCHIPS, QUANTUM DETECTORS, TESCAN, VITROTEM, and ZEISS. Commercial sponsors presented their new developments as presentations, in trade pitches, and as poster contributions.

Further information: <https://er-c.org/index.php/conferences/pico-2024/>

### **Availability of Data and Materials**

The authors have declared that no datasets apply for this piece.

### **Financial Support**

The current study hasn't received any fund from any organizations or institutions.

### **Conflict of Interest**

The authors declare that they have no competing interest.