

Workshop on electron crystallography

Program

9:00-9:05

SIG4+

Welcome, Organizational

Session 1, Chair: Mauro Gemmi

9:05-9:25

Stef Smeets, Netherlands eScience center, s.smeets@esciencecenter.nl

Automated electron diffraction using Instamatic

9:25-9:45

Lukáš Palatinus, Institute of Physics of the Czech Academy of Sciences, Prague, Czech Republic,

palat@fzu.cz

Dynamical refinement of non-precession data

9:45-10:05

Ute Kolb, University of Mainz, Germany, kolb@uni-mainz.de

FAST-ADT – automated 3DED acquisition tool for STEM application

10:05-10:25

Holger Klein, Institut Néel, Université Grenoble Alpes and CNRS, Grenoble, France,

holger.klein@neel.cnrs.fr

Low-dose electron crystallography: fast, easy and powerful

10:25-10:45

Tatiana Gorelik

Ulm University, Germany, Tatiana.gorelik@uni-ulm.de

Electron crystallography in Ulm: 2D crystals, serial, organic

Session 2, Chair: Stephanie Kodjikian

11:00-11:20

Joke Hadermann, University of Antwerp, Belgium, Joke.Hadermann@uantwerpen.be

Following structure evolution using in situ 3DED experiments

11:20-11:40

Philippe Boullay, Chris Leroux, CNRS, Caen, France, philippe.boullay@ensicaen.fr,

chris.leroux@ensicaen.fr

3D-ED as a routine tool to analyse functional nanomaterials

11:40-12:00

Louisa Meshi, Ben-Gurion University of the Negev, Israel, louisa@bgu.ac.il

Application of electron crystallography in the field of metallurgy

12:00-12:20

Alex Eggeman, University of Manchester, UK, alexander.eggeman@manchester.ac.uk

Determining the structure of lithiated iron fluoride

12:20-12:40

Partha Das, NanoMEGAS SPRL, Belgium, partha@nanomegas.com

Structural analysis at nm scale with precession electron diffraction: case studies from archaeology to amorphous bulk metallic glasses

Session 3, Chair: Lukáš Palatinus

14:00-14:20

Robert Buecker, Hamburg University, Germany, Robert.buecker@cssb-hamburg.de

Serial electron diffraction for small molecules and proteins

14:20-14:40

Tim Grüne, University of Vienna, Austria, tim.gruene@univie.ac.at

The 3D ED setup in Vienna with an overview of current projects

14:40-15:00

Iryna Andrusenko, Istituto Italiano di Tecnologia, Pisa, Italy, iryna.andrusenko@iit.it

Crystallization via VODES and structure determination via 3D ED - a step forward for API development

15:00-15:20

Jan-Peter Abrahams, PSI, University of Basel, Switzerland, jan-pieter.abrahams@psi.ch

Inelastic electron scattering in nano-crystallography

15:20-15:40

Hongyi Xu, Stockholm University, Sweden, Hongyi.xu@mmk.su.se

3DED/MicroED for structure determination of biomolecules

16:00-16:20

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Closing remarks