

[IT-9. Electron diffraction techniques](#)

8 September, 17:00 - 19:00 / 9 September, 16:30 - 18:30

IT-9-P-1450

Sr₂₅Fe₃₀O₇₇ : A complex layered and modulated structure solved by electron diffraction

Presenting author: **Lepoittevin C.**

Authors: Lepoittevin C.

IT-9-P-1516

Substrate threading dislocations imaged by weak beam dark field TEM on samples with GaN nano-LEDs

Presenting author: **Lenrick F.**

Authors: Lenrick F., Bi Z., Ohlsson J., Ek M., Hetherington C., Samuelson L., Wallenberg L. R.

IT-9-P-1526

PRECESSED NANO-ELECTRON DIFFRACTION PATTERNS OF THE HUMAN TOOTH ENAMEL CRYSTALS

Presenting author: **Reyes-Gasga J.**

Authors: REYES-GASGA J., ADDAD A., BRÈS E. F.

IT-9-P-1563

Nano-beam Diffraction of Pt/Al₂O₃ and Pd/Al₂O₃ Catalysts

Presenting author: **Ward M. R.**

Authors: Ward M. R., Boyes E. D., Gai P. L.,

IT-9-P-1573

Charge Density Determination for Transition Metals and Intermetallics by Convergent Beam Electron Diffraction and Density Functional Theory Validation

Presenting author: **Wiezorek J. M.**

Authors: Sang X., Kulovits A. K., Wang G., Wiezorek J. M.

IT-9-P-1631

Axial transmission electron diffraction in a scanning electron microscope

Presenting author: **Müller E.**

Authors: Volkenandt T., Müller E., Gerthsen D.

IT-9-P-1694

Strain mapping at the nanoscale using precession electron diffraction in a non-corrected Transmission Electron Microscope

Presenting author: **Vigouroux M. P.**

Authors: Vigouroux M. P., Delaye V., Lafond D., Bernier N., Rouvière J. L., Chenevier B., Bertin F.

IT-9-P-2034

Imaging of grain boundaries in polycrystalline samples by HRTEM

Presenting author: **Kiss Á. K.**

Authors: Kiss Á. K., Pécz B., Rauch E. F., Nicolopoulos S., Lábár J. L.

IT-9-P-2120

Statistical evaluation of 3D planes in polycrystalline materials from 2D Electron Backscatter Diffraction (EBSD) maps

Presenting author: **Jäger A.**

Authors: Jäger A., Klinger M., Tesař K., Malachov M.

IT-9-P-2149

Precession Electron Diffraction Tomography study of new materials derived from Aurivillius phases.

Presenting author: **Mouillard-Stéciuk G.**

Authors: Mouillard-Stéciuk G., Boullay P., Barrier N., Pautrat A.

IT-9-P-2328

ACOM-TEM analysis of mineral particles ultrastructural organization in bone tissue

Presenting author: **Verezhak M.**

Authors: Verezhak M., Rauch E. R., Gourrier A.

IT-9-P-2385

Investigation of dislocation structures by cross-correlation based EBSD mapping and TEM imaging

Presenting author: **Kalácska S.**

Authors: Kalácska S., Groma I., Ispánovity P. D.

IT-9-P-2459

EBSD sample preparation: high energy Ar ion milling

Presenting author: **Kalácska S.**

Authors: Kalácska S., Baris A., Varga G., Radi Z., Lendvai A., Dankházi Z., Havancsák K.

IT-9-P-2531

Determination of dislocation density by electron backscattering diffraction and X-ray line profile analysis in ferrous lath martensite

Presenting author: **Berecz T.**

Authors: Berecz T., Csóré A., Jenei P., Gubicza J., Szabó P. J.

IT-9-P-2605

Quantitative local structure analysis of nanocrystalline FeAl by electron diffraction

Presenting author: **Rentenberger C.**

Authors: Rentenberger C., Gammer C., Karnthaler H. P.

IT-9-P-2650

Fluctuation electron microscopy of an amorphous-crystalline composite material

Presenting author: **Ebner C.**

Authors: Ebner C., Gammer C., Karnthaler H. P., Rentenberger C.

IT-9-P-2743

Illumination Wavefront Determination by Image and Diffraction Focal Series

Presenting author: **McLeod R. A.**

Authors: McLeod R. A., Rouviere J., Zuo J.,

IT-9-P-2769

Automated crystal orientation mapping in TEM for the statistical analysis of microstructure evolution in nano-grained polycrystalline thin-films

Presenting author: **Aebersold A. B.**

Authors: Aebersold A. B., Hébert C., Alexander D. T.

IT-9-P-2894

Analysis of the ordering state of pyroxenes using precession electron diffraction.

Presenting author: **Jacob D.**

Authors: Jacob D., Wouossaju S., Palatinus L.

IT-9-P-2929

Application of Large-Angle Convergent-Beam Electron Diffraction to APBs Recognition

Presenting author: **Jeziarska E.**

Authors: Jeziarska E.

IT-9-P-2930

Quantitative CBED in a Nano-structured Material

Presenting author: **Nakashima P. H.**

Authors: Nakashima P. H., Bourgeois L., Etheridge J.

IT-9-P-3029

Strain Analysis by Nano-Beam Electron Diffraction (SANBED) in semiconductor nanostructures

Presenting author: **Mahr C.**

Authors: Mahr C., Müller K., Erben D., Schowalter M., Zweck J., Volz K., Rosenauer A.

IT-9-P-3080

Aberration-compensated large-angle rocking convergent-beam electron diffraction (LARCBED)

Presenting author: **Koch C. T.**

Authors: Koch C. T., Ozsoy Keskinbora C., Mu X., van Aken P. A., Ishizuka K.

IT-9-P-3362

EBSD and EDS Characterisation of Vanadium rich β Phase Lamella in Advanced Titanium Alloys

Presenting author: **Stephens C. J.**

Authors: Stephens C. J.

IT-9-P-3490

Composite crystal structures of $MxCuO_2$ cuprates; ($Mx = Li_2, Ca_{.83}, Sr_{.73}, Ba_{.67}, [(Sr/Ca)_2Cu_2O_3]_{1/\sqrt{2}}, Na$)

Presenting author: **Milat O.**

Authors: Milat O., Salamon K., Demoli N.

IT-9-P-5870

Error Analysis of the Crystal Orientations and Misorientations obtained by the Classical Electron Backscatter Diffraction Method

Presenting author: **Ram F.**

Authors: Ram F., Zaefferer S.

IT-9-P-5883

Indexing electron diffraction patterns from randomly-oriented crystals

Presenting author: **Wang Y. C.**

Authors: Wang Y. C., Wan W., Zou X. D.

IT-9-P-5973

In situ observation of reverse transformation in steels using EBSD measurement at elevated temperature

Presenting author: **Sugiyama M.**

Authors: Sugiyama M., Taniyama A.