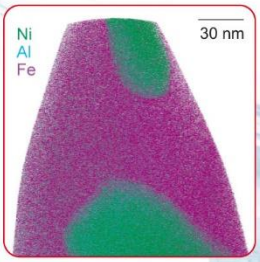
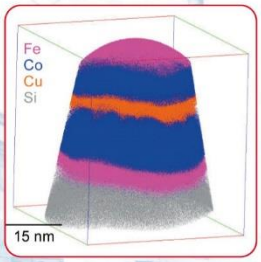
Atom Probe Tomography Seminar

Friday, September 21st 2018 9:00 – 10:45

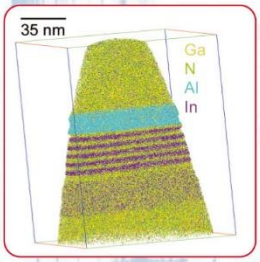
Charles University, Faculty of Mathematics and Physics, room No. 126, building C (Kryopavilon), first floor, V Holešovičkách 2, Praha 8.



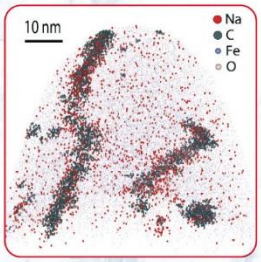
Advanced Alloys



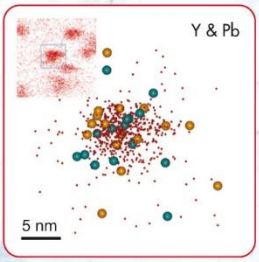
Thin Films



III/V LEDs



Biominerals



Geochemistry

Atom Probe Tomography (APT) is the highest spatial resolution analytical characterization technique with high efficiency single atom detection for quantitative atomic scale 3D elemental mapping of chemical heterogeneities (e.g. segregation, diffusion, precipitation and interfaces).

PROGRAM

- Atom Probe Tomography (APT): Theory and Technology
- Introduction to APT Sample Preparation
- Introduction to APT Data Reconstruction
- APT Applications – 3D nanoscale elemental and isotopic analysis of:
  - Metals and Alloys, Additive Manufacturing of Metals
  - Semiconductors and Devices
  - Oxides, Ceramics and Minerals
  - Biominerals, Biological applications
- Correlative synergy
  - APT/t-EBSD/TEM/STEM

ATOM PROBE TOMOGRAPHY was the first technique to image single atoms of a material (1956) and is now used in laboratories around the world to identify up to 80% of the atoms in a 3D volume with subnanometer spatial resolution - with elemental and isotopic sensitivity for a wide variety of applications

SPEAKER

Robert M. Ulfig
Representing CAMECA Instruments for the Development and Application of Atom Probe Tomography

Robert M. Ulfig *has played many roles at CAMECA (Imago) since 2001 and now works as a Product Manager and PSL for the atom probe products. Robert previously worked as a Sr. Process Engineer at Advanced Micro Devices sub-micron development center in Sunnyvale CA, and graduated from The University of Wisconsin-Madison with degree in Nuclear Engineering (Reactor Operator at the department's 1MWt nuclear reactor) and a Masters in Materials Science and Engineering.*

REGISTRATION

To register, please send an email with full contact details before date to: ***katerina.kunesova@nuvia.cz***
(Organised by NUVIA a.s.).

SPONSORING ORGANIZATIONS

CAMECA SCIENCE & METROLOGY SOLUTIONS

AMETEK MATERIALS ANALYSIS DIVISION