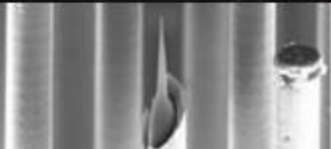
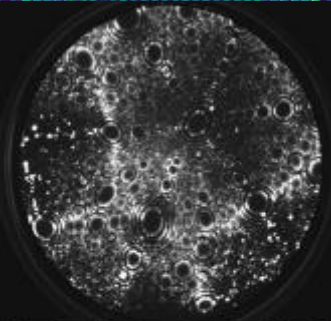
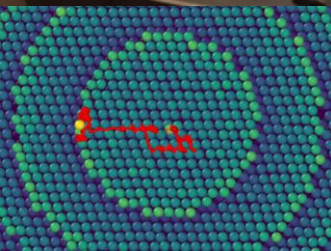
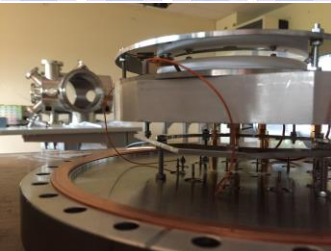
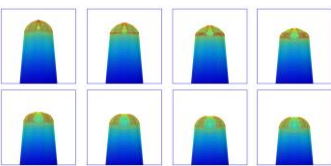
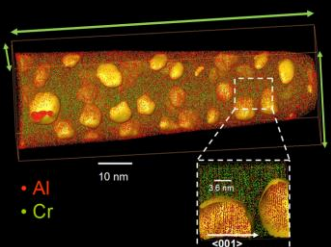




# 9th School on Atom Probe Tomography Rouen October 16-20, 2017



## Scope

This school will provide a thorough background on the principles of the atom probe technique, from the theory of the field evaporation to data mining. Lectures will focus on the basics of APT with a special emphasis on up-to-date techniques (laser-pulsing, DLD detectors, FIB specimen preparation). Beside this lecture series, practicals are organized including specimen preparation, Field Ion Microscopy, APT analysis and data mining.

## Registration

Deadline September 15th, 2017

<https://sites.google.com/site/aptschoolgpm/>

The participation to the school is free of charge

The number of participants is limited to 20 people

Online registration

## Venue

University of Rouen

Groupe de Physique des Matériaux (UMR CNRS 6634)

76801 Saint Etienne du Rouvray – France

Tel.: + 33 (0)2 32 95 51 41

## Invited speakers

Dr. Stefan Gerstl ETH (Zurich)

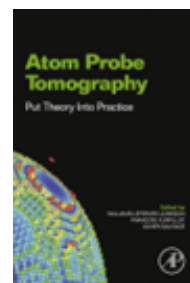
D. Reinhard (CAMECA inc.)

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## Organizing committee

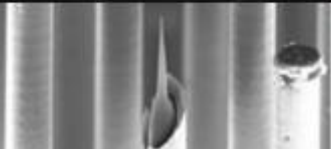
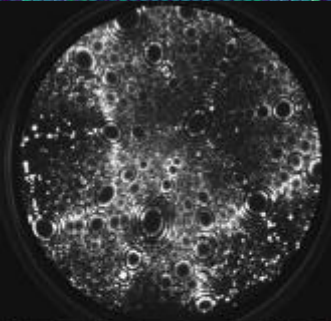
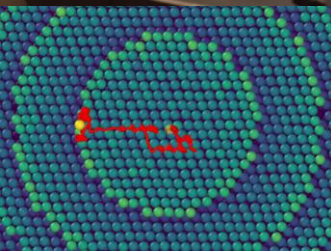
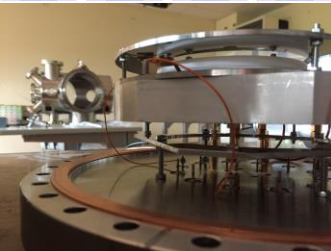
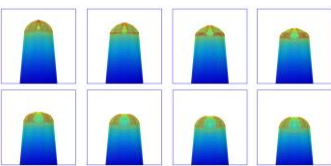
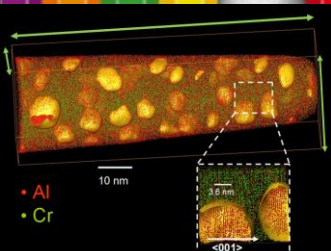
Williams Lefebvre ([williams.lefebvre@univ-rouen.fr](mailto:williams.lefebvre@univ-rouen.fr))

François Vurpillot ([francois.vurpillot@univ-rouen.fr](mailto:francois.vurpillot@univ-rouen.fr))





# 9th School on Atom Probe Tomography Rouen October 16-20, 2017



## Lectures

- History and basic principles of Atom probe Tomography
- Application of APT in material science
- The theory of field ionization and of field evaporation
- 3D reconstruction and possible artefacts
- Time of flight spectrometry, mass spectrum, mass resolution
- Composition measurements and statistics
- Technology of the atom probe: UHV, cryogenic, HV, electronics
- Laser-mater interaction, laser assisted field evaporation
- Basic data processing: mass spectrometry, 3D reconstructions
- Advanced data mining: filtering, statistics, cluster identification, ...
- APT Specimen preparation using Focused Ion Beam
- Application of APT in physical metallurgy
- Application of APT for energy materials
- Application of APT for functional materials

## Practicals

- APT specimen preparation
- Field ion microscopy and atom probe analysis
- Laser assisted atom probe analysis
- Basic and advanced data mining

