

SEM 2014

October 28-30, 2014, Göteborg, SWEDEN

Tuesday October 28, 2014

08.45 - 09.00 **Registration: outside Kollektorn**

09.00 - 12.15 **LECTURE HALL Kollektorn**

09.00 - 09.20 Welcome address and introductory remarks by the organizers
Lena Falk and Mats Halvarsson, Applied Physics, Chalmers

09.20 - 10.00 Introduction to modern technologies in scanning electron microscopy
Mats Eriksson, Spectral Solutions, Sweden

10.00 - 10.30 **COFFEE in the Canyon**

10.30 - 11.10 Advancing feature analysis and spectrum imaging: Introduction to analytical tools, setting up measurement conditions, improving the spatial resolution
Tobias Salge, Bruker Nano GmbH, Germany

11.10 - 11.20 **BREAK**

11.20 - 12.00 Focused ion beam / scanning electron microscope instruments
Ingo Schulmeyer, Carl Zeiss NTS GmbH, Germany

12.00 - 13.00 **LUNCH in the Canyon**

13.00 - 19.00 **PRACTICALS**

13.00 - 14.15 Demonstrations -- Session I

14.15 - 14.45 **COFFEE in the Canyon**

14.45 - 17.15 Demonstrations -- Session II

17.15 - 19.00 Open Lab

19.00 **COURSE DINNER in the Canyon**

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Wednesday October 29, 2014

09.00 - 12.00 *LECTURE HALL KOLLEKTORN*

09.00 - 09.05 Introductory remarks by the organizers

09.05 - 09.45 Challenging particle analysis
Matthew Hiscock, Oxford Instruments NanoAnalysis, UK

09.45 - 10.15 **COFFEE in the Canyon**

10.15 - 10.45 High resolution imaging at low kV
Patrick Woo, Hitachi High-Technologies Canada, Inc., Canada

10.45 - 11.15 Preparing near perfect sample surfaces for near perfect SEM's
Håkan Vikström, Oxford Instruments Nordiska AB, Sweden

11.15 - 11.20 **BREAK**

11.20 - 12.00 Solutions for correlative electron microscopy and analysis
Sonja Gürster, Jeol (Germany) GmbH

12.00 - 13.00 **LUNCH in the Canyon**

13.00 - 20.00 *PRACTICALS*

13.00 - 14.15 Demonstrations -- Session III

14.15 - 14.45 **COFFEE in the Canyon**

14.45 - 17.15 Demonstrations -- Session IV

17.15 **SANDWICHES and REFRESHMENTS**

17.15 - 20.00 Open Lab

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Thursday October 30, 2014

09.00 - 12.00 *LECTURE HALL KOLLEKTORN*

09.00 - 09.05 Introductory remarks by the organizers

09.05 - 09.45 Visualize - analyze - understand: Materials Science in 3D
Peter Westenberger, FEI Company, The Netherlands

09.45 - 10.15 **COFFEE in the CANYON**

10.15 - 10.45 Macro-, to micro-, to nanoscale analysis using advancing feature
analysis and apectrum imaging: applications in nano, material, life,
earth and planetary sciences
Tobias Salge, Bruker Nano GmbH, Berlin, Germany

10.45 - 11.15 Image analysis with a desktop SEM
Jeroen Smulders, Phenom-World BV., The Netherlands

11.15 - 11.50 Panel discussion

11.50 - 12.00 Concluding remarks by the organizers

12.00 - 13.00 **LUNCH in the CANYON**

13.00 - 15.45 *PRACTICALS*

13.00 - 14.15 Demonstrations -- Session V

14.15 - 14.30 **COFFEE in the CANYON**

14.30 - 15.45 Demonstrations -- Session VI

15.45 *End of Course*