

Program for the 6th International NanoSIMS user meeting – Utrecht University, 26-27 Sep 2016

Talks are given in the **Wachendorffzaal**

| Monday 26th September 2016 | | | | | |
|--|--------------|--------------------|-----------------|---|---|
| | Start | Activity | Duration | Title | Speaker / Chair |
| | 8:30 | Registration | | | |
| | 9:00 | Workshop opening | | | Jack Middelburg and Lubos Polerecky |
| Session theme: Geochemistry & Cosmochemistry | 9:15 | Talk | 20 min | Simultaneous measurements of C and N isotopic composition and N abundance in diamonds by nanoSIMS | J. Wang, S. B. Shirey and E. H. Hauri |
| | 9:35 | Talk | 20 min | A comparison of in-situ and acid residue presolar SiC grains using nanoSIMS and ToF-SIMS | A. Clarke, I. C. Lyon and T. Henkel |
| | 9:55 | Talk | 25 min | Using the nanoSIMS to study the Earth differentiation: the case of S and Pt | L. Remusat, T.-A. Suer, J. Siebert and G. Fiquet |
| | 10:20 | Coffee | 30 min | | |
| | 10:50 | Talk | 20 min | Nanosims measurements of minor and trace siderophile elements in chondritic Fe-Ni metal using primary Cs ⁺ . | S. Mostefaoui, N. Meftah, A. Jambon and E. H. Guedda |
| | 11:10 | Talk (keynote) | 30 min | Nanosims ²⁰⁷ Pb/ ²⁰⁶ Pb analysis of metallic Pb nanospheres in zircons | I.C. Lyon, et al. |
| | 11:40 | Discussion | 35 min | on session theme | Ian Lyon |
| | 12:15 | Lunch | 1h 15min | | |
| Technology & Methodology | 13:30 | Tutorial (group 1) | 1 hr | Practical tutorial on low energy deposition and charge compensation (nanoSIMS lab) | François Hillion |
| | 14:30 | Tutorial (group 2) | 1 hr | | |
| | 13:30 | Posters | 2 hrs | Poster session is parallel with the tutorial | |
| | 15:30 | Coffee | 20 min | (Combined with a poster session) | |
| | 15:50 | Talk | 15 min | Latest news from Cameca: new products; François Horreard new people | |
| | 16:05 | Talk | 20 min | Introducing the nanoSIMS lab at Academia Sinica in Taiwan | Zan Peeters, Kota Naito, Jiun-San Shen, Typhoon Lee |
| | 16:25 | Talk (keynote) | 30 min | NanoSIMS based Correlative Microscopy for high-resolution high-sensitivity nano-analytics | J. -N. Audinot, T. Wirtz, D. Dowsett, F. Vollnhals, S. Eswara |
| | 16:55 | Discussion | 35 min | on session theme | Jean-Nicolas Audinot |
| | 17:30 | End of day 1 | | | |
| | 17:30 | Free time | 60 min | Walk to the dinner venue | |
| | 18:30 | Dinner | | Restaurant het Oude Tolhuys | |

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Tuesday 27th September 2016

| Start | Activity | Duration | Title | Speaker / Chair |
|---|-------------------------|----------|--|--|
| 8:55 | Opening | | | |
| Material sciences | 9:00 Talk | 20 min | Assessing hydrogen uptake at manganese sulphide inclusions in 303 stainless steel using nanoSIMS | Yasser Al Aboura, Anthony Cook, Katie L. Moore, Robert Akid |
| | 9:20 Talk | 20 min | Hydrogen uptake in zirconium alloy and 3D depth profile analysis by nanoSIMS | K. Li, T. Aarholt, H. Jiang and C. R.M. Grovenor |
| | 9:40 Talk | 20 min | Visualization of the assimilation of nanoparticles in biological tissues by SIMS nano-analysis. | E. Lentzen, J.-N. Audinot, N. Valle, A. Georgantzopoulou, K. Mehennaoui, S. Cambier and A. C. Gutleb |
| 10:00 | Coffee | 45 min | (Combined with a poster session) | |
| Microbiological and biogeochemical applications | 10:45 Talk | 25 min | The potential to explore external surfaces using EXLIE Cs-deposition | C. Höschen, J. Lugmeier, T. Höschen, L. Pohl, G. Meisl and I. Kögel-Knabner |
| | 11:10 Talk (keynote) | 30 min | NanoSIMS at the cutting edge – challenges, recent applications and future research directions in microbiology | Niculina Musat, Hryhoriy Stryhanyuk, Matthias Schmidt & Hans H. Richnow |
| | 11:40 Discussion | 35 min | on session theme | Niculina Musat |
| | 12:15 Lunch | 1h 45min | (Can be combined with a lab tour) | M. Kienhuis and K. Heister |
| | 14:00 Talk | 20 min | Topography effects on the visualization of soil organic matter distribution on mineral surfaces: a combined approach of AFM and nanoSIMS | L. Pohl, C. Schurig, K. Eusterhues, Y. Fleming, C. W. Mueller, C. Höschen, K. U. Totsche, I. Kögel-Knabner |
| | 14:20 Talk | 20 min | Microbial interactions revealed with NanoSIMS | A. Vogts, F. Eigemann, S. Weber and M. Voss |
| | 14:40 Talk | 20 min | The effect of phosphorus limitation on harmful algal blooms in the Baltic Sea: a single cell view | Niels J. Schoffelen, Timothy G. Ferdelman, Wiebke Mohr, Helle Ploug, Sten Littmann, M.M.M. Kuypers |
| | 15:00 Coffee | 20 min | (Combined with a poster session) | |
| | 15:20 Talk | 20 min | Exploring the metabolism of photosymbiosis in the oceanic plankton with nanoSIMS | J. Decelle, H. Stryhanyuk, B. Gallet, M. Schmidt, S. Marro, N. Musat |
| | 15:40 Talk | 20 min | Phenotypic heterogeneity driven by nutrient limitation promotes growth in fluctuating environments | F. Schreiber, S. Littmann, G. Lavik, S. Escrig, A. Meibom, M.M.M. Kuypers, and M. Ackermann |
| 16:00 | Discussion | 1 hr | diverse topics | L. Polerecky & M. Kienhuis |
| 17:00 | End of day 2 | | | |

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