

SCIENTIFIC PROGRAMME

POSTERS

1 Fundamentals of particle formation and transport

- 1-P1 Dependency of particle size distributions, originating from IR-laser ablation, on laser parameters and materials

Julia Wienold, Heike Traub, Harald Bresch, Stefan Seeger, Heinrich Kipphardt, Sebastian Recknagel

2 Calibration, standardization, reference materials

- 2-P2 Preliminary results on the quantification of gold by LA-ICPMS in mouse bones

Fanny Claverie, Russell Watson, Paul E. Stutzman, Stephen E. Long

- 2-P4 Standard Addition Technique using Laser Ablation-ICPMS

Takafumi Hirata, Yoshiaki Kon, Toshihito Suzuki, Satoki Okabayashi, Takaomi D. Yokoyama

3 Femtosecond laser ablation

- 3-P6 Determination of trace element in eel otoliths by high repetition rate femtosecond LA/ICP-MS: improving limits of detection and spatial resolution using a narrow laser beam

Christophe Pécheyran, Hélène Tabouret, Fanny Claverie, Gilles Bareille, O.F.X. Donard

4 Instrumentation

- 4-P7 Laser ablation for past environmental data records from bivalve shells

Peter Bisling, Felix Theopold, Jacqueline Krause-Nehring, Thomas Brey

- 4-P8 LA-ICP-MS in climate research

Michael Kriews, Dorothee Dick, Heiko Reinhardt, Heinrich Miller

- 4-P9 Laser ablation mass spectrometry on highly radioactive samples

Michael Granfors, Anders Puranen, Juha Pellikka

- 4-P10 Characterization of a novel sub-zero cooling cell for analysis of human brain tissues by LA-ICP-MS

Matt Horton, Thomas Darrah, Robyn Hannigan

- 4-P11 Trace element analysis using synchrotron radiation induced X-ray fluorescence: enhanced spatial and elemental selectivity

Karen Appel, Peter Appel, Andreas Möller, Beate Mocek, Steffen Kutterolf, Thor Hansteen

5 Applications in geochemistry

- 5-P12 Precise in situ zircon U-Pb dating by LA-SF-ICP-MS: comparison of two different laser ablation systems
Andrei Izmer, Stijn Glorie, Johan De Grave, Marlina Elburg, Frank Vanhaecke
- 5-P13 LA-ICP-MS as a tool for constraining the U-Pb systematics in metamorphic rutile
Ellen Kooijman, Klaus Mezger, Jasper Berndt
- 5-P14 Bulk trace element composition of submarine volcanic glasses from the Woodlark Basin by LA-ICPMS: competitive with conventional solution ICPMS?
Julia Mahlke, Dieter Garbe-Schönberg, Colin Devey
- 5-P15 $\delta^{37}\text{Cl}$ in tephra samples from Latin American volcanoes
Matthias Frische, Jan Fietzke, Steffen Kutterolf, Heidi Wehrmann, Thor Hansteen
- 5-P16 Application of chlorine and bromine quantification in fluid inclusions by LA-ICP-MS
Markus Wälle, Jung Hun Seo, Christoph A. Heinrich
- 5-P17 Tephra from the Southern Chilean-Argentinian subduction system: high-resolution trace element analyses by LA-ICP-MS
Heidi Wehrmann, Dieter Garbe-Schönberg, Guillaume Jacques, Kaj Hoernle

6 Imaging, applications in life science

- 6-P18 OTA Determination in wine by an ICP-MS-based immunoassay
Charlotte Giesen, Norbert Jakubowski, Ulrich Panne, Michael G. Weller
- 6-P19 2D LA-ICPMS trace element mapping using R
Martin Rittner, Wolfgang Müller
- 6-P20 An analytical approach for quantification of the intake of tungsten carbide (WC) nanoparticles and concomitant element (Co) into human cells by laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS)
Ha-Jo Stärk, Dana Kühnel, Wibke Busch, Kristin Schirmer, Rainer Wennrich

7 Forensics, materials science, and nuclear research

- 7-P21 Laser ablation - ICP-OES for fast and accurate precious metal determination in lead buttons obtained by fire assay.
Sien Compernelle, Dorine Wambeke, Ine De Raedt, Frank Vanhaecke
- 7-P22 Characterization of local defects in coated glasses by laser ablation coupled to sector field ICP-MS
Ioana Konz, Beatriz Fernández, M.Luisa Fernández, Rosario Pereiro, Alfredo Sanz-Medel
- 7-P23 Trace element profiles along the vertical axis of a multicrystalline silicon ingot
Sylke Meyer, Christian Hagendorf, Jan Lich

7-P24 Determination of trace elements in Nb₂O₅ powder using LA-ICP-MS

Heike Traub, Heinrich Kipphardt, Norbert Jakubowski

8 Applications in biogeochemistry

8-P25 Determination of $\delta^{11}\text{B}$ in carbonates via LA-MC-ICP-MS using silicate standards as reference material

Jan Fietzke, Agnes Heinemann, Isabelle Taubner, Florian Böhm, Anton Eisenhauer, Jonathan Erez

8-P26 Fingerprints of lagoonal life: stable isotopes and otolith microchemistry reveal migration patterns of a marine flatfish, and provide a promising application for laser ablation based methods

Jan Dierking, Fabien Morat, Yves Letourneur, Mireille Harmelin-Vivien

8-P27 Using initial laser ablation to sample surface contamination

Ed Hathorne

8-P28 Planktonic foraminiferal LA-ICPMS Mg/Ca profiles: A step forward to understand a paleotemperature proxy?

Marcus Regenberg, Dieter Garbe-Schönberg

8-P29 Determination of trace-elements in the first dorsal fin of bluefin tuna (*Thunnus thynnus*)

A. Ugarte, N. Unceta, C. Pecheyran, Sánchez-Ortega, M.A. Goicolea, R.J. Barrio