

Programmüberblick ASI-Tagung 2017

	Mo 09.10.2017	Di 10.10.2018	Mi 11.10.2019
09:00		Geologie, Hydrologie, Geohydrologie & geochemische Stoffkreisläufe	Ökosysteme und biogeochemische Prozesse II
10:00			Posterkaffee
		Kaffeepause	
11:00		Herkunftskontrolle-Lebensmittel, Forensik, Doping	Ökosysteme und biogeochemische Prozesse III
12:00	Eröffnung ASI2017	Mittagspause	Schlussworte/Preise
13:00	Analytik: Methoden, Techniken und Qualitätssicherung	Ökosysteme und biogeochemische Prozesse	
14:00		ISOTOPEN-Preis	Laborführung
15:00	Posterkaffee		
16:00		Posterkaffee	
	Analytik: Methoden, Techniken und Qualitätssicherung II		
17:00	Physiologie und Metabolismus	ASI-Mitglieder-versammlung	
18:00			
		ab 19:30 Konferenz-dinner im XII-Apostel	

Programm

MONTAG — 9.10.2017

12:30–13:00 Eröffnung der ASI-Tagung

SESSION 1:

Analytik: Methoden, Techniken und Qualitätssicherung

Chair: Matthias Gehre

13:00–13:20

ID: 108

Development Of A Multidimensional Gas Chromatography/ Combustion/ Isotope Ratio Mass Spectrometry Method For The Investigation Of Carbon Isotope Ratios Of Urinary Steroids For Doping Control Purposes

Marlen Putz, Thomas Piper, Schänzer Wilhelm, Thevis Mario

13:20–13:40

ID: 163

SPIN-MIMS simplifying the SPIN-MAS instrumentation for online measurement of ¹⁵N-abundances of ammonium, nitrite and nitrate in aqueous solutions

Wolfram. Eschenbach, Jens Dyckmans, Dominika Lewicka-Szczebak, Anette Giesemann, C. Florian Stange, Reinhard Well,

13:40–14:00

ID: 110

Universal chlorine isotope analysis of organic compounds using gas chromatography interfaced with multiple-collector inductively coupled plasma mass spectrometry (GC-MC-ICPMS)

Julian Renpenning, Axel Horst, Matthias Gehre

14:00–14:20

ID: 134

Chromatography-based EA-IRMS : Redesigning the combustion elemental analyzer around modern chromatographic principles

Andreas Hilkert, Christopher Brodie, Oliver Kracht

14:20–14:40

ID: 127

JRAS-06: Keeping up with changing internationally-distributed, light-element stable isotopic reference materials

Heiko Moossen, Tyler B. Coplen, Haiping Qi, Michael Rothe, Heike Geilmann, Jürgen Richter, Willi A. Brand

14:40–16:30

Posterkafee (Posterrundgang Analytik: Methoden, Techniken und Standardisierung und Physiologie und Metabolismus)

SESSION 2:

Analytik: Methoden, Techniken und Qualitätssicherung II

Chair: Reinhard Well

16:30–16:50

ID: 117

A Closer Look Into The Nitrogen Blank In Elemental Analyser/Isotope Ratio Mass Spectrometry measurements

Langel Reinhard, Jens Dyckmans

16:50–17:10

ID: 164

An LC-IRMS Interface for Flexible Compound-specific Stable Isotope Analysis

Filip Volders, Christian Schmidt, Sam Barker, Paul Wheeler, Lutz Lange, Hans-Peter Sieper

17:10–17:30

ID: 152

Validation of a $\delta^{2}\text{Hn}$ -alkane- $\delta^{18}\text{O}$ hemicellulose-based paleohyrometer

Johannes Hepp, Imke Schäfer, Mario Tuthorn, Bruno Glaser, Dieter Juchelka, Kazimierz Rozanski, Roland Zech, Christoph Mayr, Michael Zech

SESSION 3:
Physiologie und Metabolismus

Chair: Gerhard Gebauer

17:30–17:50

ID: 109

The Effect of Nitrate and Ammonium Nutrition on Carbon Stable Isotope Fractionation During Plant Respiration

Shiva Ghiasi, Roland Werner, Nina Buchmann, Rolf Siegwolf

17:50–18:10

ID: 135

Carbon allocation into biogenic volatile organic compounds (BVOCs) and respiratory carbon dioxide (CO₂) traced by position-specific ¹³C-pyruvate-labelling in *Halimium halimifolium* L.: A novel methodological approach for automated, simultaneous and real-time trace gas analysis

Lukas Fasbender, Ana Maria Yáñez-Serrano, Christiane Werner

DIENSTAG — 10.10.2017

SESSION 4:
Geologie, Hydrologie und Geohydrologie und geochemische Stoffkreisläufe

Chair: Robert van Geldern

9:00–9:30

ID: 157

Using Mo and U isotope signatures of sediments as paleoredox proxy

Stefan Weyer, Annika Brüske, Nadja Neubert, Olaf Dellwig, Noah Planavki, Timothy Lyons, Ariel Anbar

9:30–9:50

ID: 159

Tracing complex igneous processes by in-situ analyses of Mg- and Fe isotope ratios in magmatic minerals

Martin Oeser, Max Collinet, Ralf Dohmen, Philipp Ruprecht, Lena K. Steinmann, Stefan Weyer

9:50–10:10

ID: 154

Acidic mine tailings and Fe / Cu isotope fractionation: modification and application of a sequential extraction method

Yvonne Roebbert, Katharina Rabe, Marina Lazarov, Axel Schippers, Bernhard Dold, Stefan Weyer

10:10–10:30

ID: 153

Iron Enrichment In Soils And Groundwater - The Fe Isotope Signature

Stephan Schuth, Tim Mansfeldt

10:30–10:50

ID: 112

Water flow and fate of pesticides in the unsaturated zone - Investigations based on stable water isotopes

Fatemeh Shajari, Florian Einsiedl, Arno Rein

10:50-11:10 Kaffeepause

SESSION 5:

Herkunfiskontrolle – Lebensmittel, Forensik, Doping

Chair: Bruno Glaser

11:10–11:30

ID: 125

Complementary Use Of ¹H-NMR And Multi-Element IRMS In Association With Chemometric Methods Enables Effective Origin Analysis Of High Quality Cocoa (Theobroma Cacao L.)

Stefan Bindereif, Jan-Marcel Schubert, Paul Rösch, Stephan Schwarzingler, Gerhard Gebauer

11:30–11:50

ID: 106

Same Same, but different! - Decoding the nutrition history of blow flies by EA-IRMS

Victoria Bernhardt, Nicole Scheid, Thomas Holdermann, Thomas Schäfer, Jens Amendt

11:50–12:10

ID: 107

Epiandrosterone Sulfate Prolongs The Detectability Of Testosterone, 4-Androstenedione And Dihydrotestosterone Misuse By Means Of Carbon Isotope Ratio Mass Spectrometry

Thomas Piper, Marlen Putz, Wilhelm Schänzer, Mario Thevis

12:10–13:00 Mittagspause

SESSION 6:

Ökosysteme und biogeochemische Prozesse I

Chair: Anette Giesemann

13:00–13:20

ID: 158

Biotrasformation of Hexachlorocyclohexane during Anaerobic Digestion of Pesticide Contaminated Biomass Tracked by Compound Specific Stable Isotope Analysis

Shujuan Lian, Marcell Nikolausz, Ivonne Nijenhuis, Athaydes Leite, Hans Richnow

13:20–13:40

ID: 130

Drought-Induced Anomalies Of Soil Water Stable Isotopes Enable Identification Of Deep Root Water Uptake

Matthias Beyer, Paul Königer, Josefina T. Hamutoko, Thomas Himmelsbach

13:40–14:00

ID: 124

Picky Carnivorous Plants: Preferences For Preys' Trophic Levels

Saskia Klink, Gerhard Gebauer

14:00–14:20

ID: 128

Stable Isotopes As Flux Tracers: Assessing The Vegetation-Soil-Atmosphere Processes In Grasslands Under Drought Stress

Angelika Kübert, Youri Rothfuss, Maren Dubbert, Christiane Werner

14:20–15:20 Verleihung des Isotopenpreis und Vortrag

15:20–17:20 Posterkafee (Posterrundgang Geologie, Hydrologie und Geohydrologie und geochemische Stoffkreisläufe und Herkunftskontrolle)

Ab 17:30 ASI-Mitgliederversammlung mit Vorstandswahlen

Ab 19:30 Konferenzdinner im XII-Apostel

MITTWOCH — 11.10.2017

SESSION 7:

Ökosysteme und biogeochemische Prozesse II

Chair: Georg Guggenberger

9:00–9:20

ID: 140

Persistence of sugar-derived C in soil is controlled by the initial use of the C positions in the microbial metabolism

Ezekiel Bore, Yakov Kuzyakov, Michaela Dippold

9:20–9:40

ID: 142

Microbial Food Preference For Sorbed Versus Necromass C: Position-Specific Labeling Tells The Story

Jennifer Herschbach, Carolin Apostel, Sandra Spielvogel, Kuzyakov Yakov, Michaela Dippold

9:40–10:00

ID: 113

Solvent Stress Induced Changes Of Cell Membrane Fatty Acids Decrease Isotope Fractionation During Microbial Denitrification

Anja Wunderlich, Hermann Heipieper, Martin Elsner, Florian Einsiedl

10:00–10:20

ID: 116

Insights in N₂O processes after grassland break-up by using N₂O isotopocules

Caroline Buchen, Dominika Lewicka-Szczebak, Heinz Flessa, Reinhard Well

10:20–11:40 Posterkafee (Posterrundgang Ökosysteme und biogeochemische Prozesse)

SESSION 8:

Ökosysteme und biogeochemische Prozesse III

Chair: Michael Zech

11:40–12:00

ID: 114

Two Dimensional Isotope Fingerprint Of Plant Methoxyl Groups – Application To Biogeochemical Research

Frank Keppler, Markus Greule, Tobias Anhäuser, Hanns-Ludwig Schmidt

12:00–12:20

ID: 131

The role of biological black carbon production for Chernozem genesis

Bruno Glaser

12:20–12:40

ID: 121

Assessment of Stable Isotope Fractionation during Diffusive Transport and Biogeochemical Transformations in the Subsurface

Martin Thullner, Ali M. Khan, Lukas Y. Wick, Susanne Stadler

12:40–13:00 Schlussworte und ASI-Poster- und Vortrags-Preisverleihung

Nachmittags: Laborführung Uni Hannover und/oder BGR