

IMOG Programme

Sunday 18th September 2011

18.00 - 20.30 Ice-breaker, Casino Kursaal

Monday 19th September 2011 - Morning

Theater Saal

08.30 - 09.30 [Opening Ceremony](#)

[Plenary 1](#)

Chair: Erik Tegelaar

09.30 - 09.55 O-01 **Extractive and structural phenolic compounds in a Neolithic leather from the Swiss Alps**
[Jorge E. Spangenberg](#), Albert Hafner

09.55 - 10.20 O-02 **Melting history of West Antarctic ice sheet since the last glacial maximum revealed by compound-specific radiocarbon dating**
[Nao Ohkouchi](#), Hisami Suga, Yoshito Chikaraishi, Yusuke Yokoyama, Takahiro Yamazaki, Yosuke Miyairi, Hiroyuki Matsuzaki, John Anderson, John Southon, Timothy Eglinton

10.20 - 10.45 O-03 **Diamonds in the rough: identification of individual naphthenic acids in petroleum and oil sands process water**
[Steven Rowland](#), Charles West, Alan Scarlett, David Jones, Richard Frank

10.45 - 11.10 *Coffee break*

[Plenary 2](#)

Chair: James Maxwell

11.10 - 11.35 O-04 **Insights about the marine nitrogen cycle from nitrogen isotopes of sedimentary porphyrins**
Meytal B. Higgins, [Ann Pearson](#)

11.35 - 12.00 O-05 **Highly condensed, sulfur-rich hydrocarbon detected in oils altered by thermochemical sulfate reduction: precursors to TSR-solid bitumen**
[Clifford Walters](#), Kuangnan Qian, Chunpingq Wu, Anthony Mennito, Zhibin Wei

12.00 - 12.25 O-06 **Eocene out-of-India dispersal of Asian dipterocarps**
[Suryendu Dutta](#), Suryakant Tripathi, Monalisa Mallick, Runcie Mathew, Paul Greenwood, Mulagalapalli Rao, Roger Summons

12.25 - 13.40 *Lunch*

13.00 - 14:30 [Short Course \(In Ball-Saal\)](#)

[Advances in geochemical proxies for methane cycling in the past](#)
Thomas Wagner, Richard Pancost and Helen Talbot

13.40 - 15.05 [Poster Session 1 \(In Kongress-Saal\)](#)

Chair: Matthias Keym

Analytical developments, Kerogen & coal, Petroleum biomarkers 1, Petroleum case studies 1, Petroleum source rocks 1 (P001- P126)

Monday 19th September 2011 - Afternoon

Theater-Saal

Paleobiomarkers

Chair: Richard Pancost

- 15.05 - 15.30 O-07 **The syngeneity of Precambrian sterane biomarkers**
Amber Jarrett, Jochen Brocks
- 15.30 - 15.55 O-08 **An integrated lipid biomarker and chemostratigraphic record of biospheric evolution through the late Ordovician mass extinction event**
Megan Rohrssen, Gordon Love
- 15.55 - 16.20 O-09 **A high resolution compound specific carbon isotope study of the PETM in Northern Spain**
Hayley Manners, Stephen Grimes, Paul Sutton, Laura Domingo, Richard Pancost, Melanie Leng, Kyle Taylor, Richard Twitchett, Malcolm Hart, Nieves Lopez-Martinez
- 16.20 - 16.45 *Coffee break*

IPL degradation and preservation

Kai Uwe Hinrichs

- 16.45 - 17.10 O-13 **Degradation of intact polar lipids in sandy sediments: insights from a laboratory experiment**
Jörn Logemann, Jutta Graue, Jürgen Köster, Bert Engelen, Heribert Cypionka, Jürgen Rullkötter
- 17.10 - 17.35 O-14 **Exploring the diversity of archaeal ether lipids in marine sediments**
Xiaolei Liu, Julius Lipp, Jeffrey Simpson, Roger Summons, Kai-Uwe Hinrichs
- 17.35 - 18.00 O-15 **Differential degradation of intact polar lipid GDGTs upon oxidation of a turbidite sediment**
Sabine K. Lengger, Mariska Kraaij, Marianne Baas, Ellen C. Hopmans, Jaap S. Sinninghe Damsté, Stefan Schouten
- 18.05 - 19.00 Treibs Award

Monday 19th September 2011 - Afternoon

Ball-Saal

Sulfur chemistry

Chair: Daniel Dessort

- 15.05 - 15.30 O-10 **Sulfur species as facilitators for water splitting to react with organic matter under medium temperatures**
Ward Said-Ahmad, Alon Amrani, Zeev Aizenshtat
- 15.30 - 15.55 O-11 **Sulfur rich petroleum systems: TSR and thermal cracking in basin and reservoir field studies, simulation experiments and model calibration**
Olaf G. Podlaha, Henning Peters, Erdem Idiz, Volker Dieckmann
- 15.55 - 16.20 O-12 **Sulfur isotope systematic of individual organic compounds during thermochemical sulfate reduction**
Alon Amrani, Andrei Deev, Alex Sessions, Yongchun Tang, Jess Adkins, Ronald Hill, Michael Moldowan, Zhibin Wei

16.20 - 16.45 *Coffee break*

Petroleum system case studies

Chair: Shuichang Zhang

- 16.45 - 17.10 O-16 **Improved genetic characterization of Brazilian oils using combined molecular (biomarkers) and isotope geochemistry**
Jarbas Vicente Poley Guzzo, Eugenio Santos Neto, Alexandre de Andrade Ferreira
- 17.10 - 17.35 O-17 **Composition analysis of individual petroleum inclusions: Preliminary application in the reservoir-filling history of the Tahe oil field, Tarim Basin, NW China**
Weijun Shi, Maowen Li, Binbin Xi, Jin Xu, Zhirong Zhang, Jianzhong Qin, Hong Jiang
- 17.35 - 18.00 O-18 **Petroleum system analysis South East Abu Dhabi**
Peter Nederlof, Özkan Huvaz, Andy Bell, Ahmed Khouri, Abdelfatah El

Tuesday 20th September 2011 - Morning

Theater-Saal

09.00 - 09.05 Opening Remarks

Plenary 3

Chair: [Alexei Milkov](#)

09.05 - 09.30 O-19 **The borolithochromes: boron-containing organic pigments from a Jurassic red alga**

[Klaus Wolkenstein](#), Jürgen H. Gross, Heinz Falk

09.30 - 09.55 O-20 **Organic aerosol transport and deposition over the southern ocean**

[Susanne Fietz](#), Alfredo Martínez-García, Bastian Hambach, Sze Ling Ho, Frank Lamy, Walter Geibert, Antoni Rosell-Melé

09.55 - 10.20 O-21 **Study of the stable isotopic composition of severely biodegraded oils as petroleum system correlation parameters**

[Norka Marciano](#), Steve Larter, Bernhard Mayer

10.20 - 10.45 O-22 **New insights into the sources and application of bihopanoid molecular proxies in diverse settings**

[Helen Talbot](#)

10.45 - 11.10 *Coffee break*

Plenary 4

Chair: [Simon Brassell](#)

11.10 - 11.35 O-23 **Novel applications of trace metals and Molybdenum isotopes in petroleum fluid studies**

[Sander van den Boorn](#), Riccardo Avanzinelli, Pim van Bergen, Tim Elliott, Corey Archer, Andrew Bishop, Volker Dieckmann

11.35 - 12.00 O-24 **A biological source for the orphan branched tetraethers ubiquitously occurring in soil and coastal marine and lake sediments**

[Jaap Sinninghe Damste](#), Irene Rijpstra, Johan Weijers, Ellen Hopmans, Baerbel Foesel, Joerg Overmann, Svetlana Dedysh

12.00 - 12.25 O-25 **The chemical structure of insoluble organic matter in carbonaceous meteorites**

[Sylvie Derenne](#), François Robert

12.25 - 13.40 *Lunch*

13.00 - 14:30 [Short Course \(In Ball-Saal\)](#)

Shale gas

[Brian Horsfield](#) and [Ger van Graas](#)

13.40 - 15.05 [Poster Session 2 \(In Kongress-Saal\)](#)

Chair: [Matthias Keym](#)

Archeology, Environment and Pollution 1, Microbial Geochemistry/ Lipidomics/Genomics 1, Proxies & Paleoreconstructions 1, Soil & Peat & Terrestrial OM 1(P128 - P251)

Tuesday 20th September 2011 - Afternoon

Theater-Saal

New approaches to microbial biogeochemistry

Chair: Josef Werne

- 15.05 - 15.30 O-26 **A radiotracer experiment for investigating the degradation kinetics of intact polar lipids in sediments**
Sitan Xie, Julius Sebastian Lipp, Gunter Wegener, Timothy G. Ferdelman, Kai-Uwe Hinrichs
- 15.30 - 15.55 O-27 **Coenzyme factor 430: abundance and isotopic compositions for tracing a key molecule of methanogenesis and reverse-methanogenesis**
Yoshinori Takano, Hiroyuki Imachi, Nana O. Ogawa, Yoshito Chikaraishi, Nao Ohkouchi
- 15.55 - 16.20 O-28 **Nitrogen isotopic signatures of amino acids in microbes: culture experiments and applications to marine sediments**
Yasuhiko Yamaguchi, Yoshinori Takano, Yoshito Chikaraishi, Nanako Ogawa, Hiroyuki Imachi, Hisami Suga, Yusuke Yokoyama, Naohiko Ohkouchi
- 16.20 - 16.45 *Coffee break*

Leaf wax hydrogen isotopes

Chair: Heinz Wilkes

- 16.45 - 17.10 O-32 **The role of light intensity in controlling the δD and $\delta^{13}C$ values of organic compounds in leaf waxes: should we worry about it?**
Nikolai Pedentchouk, Kirill Peskov, Tracy Lawson, Yvette Eley
- 17.10 - 17.35 O-33 **Empirical relationship between leaf wax *n*-Alkane δD and altitude in the Wuyi, Shennongjia and Tianshan Mountains, China: implications for Paleoaltimetry**
Pan Luo, Ping'an Peng, Gerd Gleixner, Zhuo Zheng, Zhonghe Pang,
- 17.35 - 18.00 O-34 **Hydrogen isotopic composition of long chain *n*-alkanes from a marine sediment core transect off Africa: implications for the tropical African rainbelt**
James Collins, Enno Schefuß, Stefan Mulitza, Matthias Prange, Gerold Wefer

Tuesday 20th September 2011 - Afternoon

Ball-Saal

Soil and peat

Chair: Rienk Smittenberg

- 15.05 - 15.30 O-29 **Influence of temperature on methane cycling and methanotroph-related biomarkers in peat moss**
Julia van Winden, Gert-Jan Reichart, Helen Talbot, Niall McNamara, Albert Benthien, Jaap Sinninghe Damsté
- 15.30 - 15.55 O-30 **First detection of triterpenyl acetates in soils: sources and potential as new palaeoenvironmental biomarkers**
Marlène Lavrieux, Jérémy Jacob, Claude Le Milbeau, Jean-Robert Disnar, Renata Zocatelli, Jean-Gabriel Bréheret, Kazuo Masuda
- 15.55 - 16.20 O-31 **The fate of collembola derived organic matter in soil**
Ian Bull, Andrew Rawlins, Philip Ineson, Richard Evershed
- 16.20 - 16.45 *Coffee break*

Petroleum biomarkers

Chair: Ken Peters

- 16.45 - 17.10 O-35 **Biomarker evidence for the Late Neoproterozoic deep-water oxygenation**
Chunjiang Wang, Maoyan Zhu
- 17.10 - 17.35 O-36 **Highest resolution for oil dating (≤ 10 Ma): implications for the paleocene-eocene thermal maximum from stable isotope data**
Christiane Eiserbeck, Kliti Grice, Joseph Curiale
- 17.35 - 18.00 O-37 **The seco-oleananes: identification, origin, application and distributions in late cretaceous/tertiary deltaic petroleum systems**
Olukayode Samuel, Hans Peter Nytoft, Geir Kildahl-Andersen, Jon Eigill Johansen

Wednesday 21st September 2011 - Morning

Theater-Saal

09.00 - 09.05 Opening Remarks

Plenary 5

Chair: Stefano Bernasconi

09.05 - 09.30 O-38 **Microbial communities associated to deep subsurface coal layers: a review of the DEBITS project**
Kai Mangelsdorf, Clemens Glombitza, Andrea Vieth, Tiem Vu Thi Anh, Jens Kallmeyer, Klaus Zink, Richard Sykes, R. John Parkes, John Fry, Brian Horsfield

09.30 - 09.55 O-39 **The fate of terrestrial organic matter in the Yangtze River - East China sea system and its implications for the use of terrestrial organic proxies**
Chun Zhu, Thomas Wagner, Helen Talbot, Johan Weijers, Richard Pancost

09.55 - 10.20 O-40 **The importance of geochemical analysis in shale gas plays: beyond just the organic components**
Harry Dembicki, Jonathan Madren

10.20 - 10.45 O-41 **Multi technique approach resolves soft-tissue preservation in 50 million year old reptile skin**
Bart van Dongen, Phill Manning, Nick Edwards, Holly Barden, Peter Larson, Uwe Bergmann, William Sellers, Roy Wogelius

10.45 - 11.10 *Coffee break*

Plenary 6

Chair: John Volkman

11.10 - 11.35 O-42 **Charge history and petroleum geochemistry of dual phase accumulations on the Norwegian continental shelf using comparative analysis of the liquid and vapour phase**
Linda Schulz, Michael Erdman, Olaf Thießen

11.35 - 12.00 O-43 **Molecular study of organic residues in an exceptional collection of potteries from Deir el-Médineh (XVIIIth dynasty, Egypt)**
Claire Bastien, Armelle Charrié-Duhaut, Geneviève Pierrat-Bonnefois, Jacques Connan, Claude Le Milbeau, Jorge Spangenberg

12.00 - 12.25 O-44 **Bacterial formation of (di)ether lipids: a state of the art**
Vincent Grossi, Agnès Hirschler-Réa, Philippe Schaeffer, Cristiana Cravo-Laureau

12.25 - 13.40 *Lunch*

13.00 - 14:30 Short Course (In Ball-Saal)

Using ToF-SIMS to study biomarkers

Volker Thiel and Sandra Siljeström

13.40 - 15.05 Poster Session 3 (In Kongress-Saal)

Chair: Henning Peters

Gas Geochemistry, Petroleum Biomarkers 2, Petroleum Case Studies 2, Petroleum Source Rocks 2, Reservoir/Production, Sulfur Chemistry, Unconventionals (P256 - P379)

Wednesday 21st September 2011 - Afternoon

Theater-Saal

Analytical developments

Chair: Tim Eglinton

- 15.05 - 15.30 O-45 **Advancing trace-level analysis of marker compounds in ice cores to generate records of South American fire activity**
Matthew Makou, Lonnie Thompson, Timothy Eglinton, Daniel Montluçon
- 15.30 - 15.55 O-46 **Development of a novel tool for paleoclimate research based on compound-specific $\delta^{18}\text{O}$ analyses of (hemi-)cellulose-derived monosaccharides**
Michael Zech, Bruno Glaser, Dieter Juchelka, Karsten Kalbitz, Christoph Mayr, Mario Tuthorn, Roland Werner
- 15.55 - 16.20 O-47 **Current developments and challenges in compound-specific radiocarbon analysis**
Rienk Smittenberg, Merle Gierga, Axel Birkholz, Irka Hajdas, Lukas Wacker, Michael Schmidt, Stefano Bernasconi

16.20 - 16.45 *Coffee break*

Novel isotopes in proxies

Chair: Stefan Schouten

- 16.45 - 17.10 O-51 **Role of biosynthesis leading to the saw-toothed profile in $\delta^{13}\text{C}$ and $\delta^2\text{H}$ of *n*-alkanes and systematic isotopic differences between *n*-, iso- & anteiso-alkanes in leaf waxes of land plants**
Youping Zhou, Kliti Grice, Hilary Stuart Williams, Graham Farquhar, Charles Hocart
- 17.10 - 17.35 O-52 **Nitrogen isotopes of amino acids: first results in sediments and gorgonian corals of a new tool to reconstruct organic nitrogen source and cycling from paleoarchives**
Matthew McCarthy, Owen Sherwood, Fabian Batista, Moritz Lehmann, Christina Ravelo, Carsten Schubert

Wednesday 21st September 2011 - Afternoon

Ball-Saal

Hydrocarbon generation and expulsion

Chair: Raymond Michels

- 15.05 - 15.30 O-48 **Evolution of petroleum composition during generation and expulsion - a case study on the Bakken formation**
Philipp Kuhn, Brian Horsfield, Rolando di Primio
- 15.30 - 15.55 O-49 **Determination of effective source rocks for quaternary biogenic gas generation in the eastern Caidam Basin, NW China**
Shuichang Zhang, Maowen Li, Yanhua Shuai, Jenny Wong, Junito Reyes, Sneha Achal
- 15.55 - 16.20 O-50 **Beyond orgas- BP's new predictive model for biogenic and thermogenic gas expulsion from source rocks**
Mark Osborne, Tony Barwise

16.20 - 16.45 *Coffee break*

Kerogen and coal

Chair: Richard Sykes

- 16.45 - 17.10 O-53 **Biomarkers and stable isotopes of euxinia and their role in fossil preservation**
Ines Melendez, Kliti Grice, Kate Trinajstic, Katherine Thompson, Mojgan Ladjaverdi, Arndt Schimmelmann, Paul Greenwood
- 17.10 - 17.35 O-54 **Biomarker and petrographic evidence for the origin and maturity of perhydrous arctic coal and associated bitumen**
Chris Marshall, David Large, Colin Snape, Julius Babatunde, Will Meredith, Clement Uguna, Baruch Spiro, Alv Orheim
- 19.00 - 20.00 **Conference Drinks Reception, Casino Kursaal**
- 20.00 - late **Conference Dinner, Konzerthalle, Casino Kursaal**

Thursday 22nd September 2011 - Morning

Theater-Saal

09.00 - 09.05 Opening Remarks

Plenary 7

Chair: Chris Cornford

09.05 - 09.30 O-55 **The organic geochemistry of carbon management**
Steve Larter, Thomas Oldenburg, Haiping Huang, Ian Gates, Barry Bennett, Norka Marcano

09.30 - 09.55 O-56 **The two largest soil organic matter pools in Arctic permafrost show different degradation potentials upon coastal expulsion**
Örjan Gustafsson, Jorien Vonk, Emma Karlsson, Laura Sanchez-Garcia, Bart van Dongen, Igor Semiletov, Oleg Dudarev, Alex Charkin, Tim Eglinton, August Andersson

09.55 - 10.20 O-57 **Exploring mass extinction events (Triassic/Jurassic and Permian/Triassic): association with global warming events**
Kliti Grice, Birgit Nabbefeld, Richard Twitchett, Lindsay Hays, Kenneth Williford, Alex Holman, Roger Summons, Jennifer McElwain, Michael Böttcher

10.20 - 10.45 O-58 **Enhanced biomarker detection in microbial mats using ToF-SIMS**
Tim Leefmann, Christine Heim, Alexander Kaefer, Peter Meinicke, Jukka Lausmaa, Peter Sjövall, Volker Thiel

10.45 - 11.10 *Coffee break*

Plenary 8

Chair: Tanja Barth

11.10 - 11.35 O-59 **Black shale formation by microbial mats, lacking sterane-producing eukaryotes in the late mesoproterozoic Taoudeni Basin (1.1 Ga; Mauritania)**
Martin Blumenberg, Joachim Reitner, Sascha Doering, Walter Riegel, Linda C. Kah, Geoffrey J. Gilleaudeau, Volker Thiel

11.35 - 12.00 O-60 **Assessing subsurface microbial carbon assimilation by lipid $\delta^{13}C_{DIC-DH2O}$ stable isotope probing**
Gunter Wegener, Marlene Bausch, Nguyen Manh Thang, Matthias Kellermann, Xavier Pietro, Kai-Uwe Hinrichs, Antje Boetius

12.00 - 12.25 O-61 **The significant impact of weathering on spilled Gulf of Mexico MC252 oil chemistry and its fingerprinting of samples collected from the sea surface and shore between May and September 2010**
Changrui Gong, Alexei Milkov, David Grass, Michael Sullivan, Tomieka Searcy, Leon Dzou, Pierre-Andre Depret

12.25 - 13.40 *Lunch*

13.00 - 14:30 Short Course (In Ball-Saal)

Flow assurance

John Ratulowski

13.40 - 15.05 Poster Session 4 (In Kongress-Saal)

Chair: Henning Peters

Environment and Pollution 2, Isotope geochemistry, Microbial Geochemistry/Lipidomics/Genomics 2, Proxies & Paleoreconstructions 2, Soil & Peat & Terrestrial OM 2 (P381 - P516)

Thursday 22nd September 2011 - Afternoon

Theater-Saal

Paleotemperature proxies

Chair: Nao Ohkouchi

- 15.05 - 15.30 O-62 **A reappraisal of long-chain diol proxies**
Stefan Schouten, Sebastiaan Rampen, Veronica Willmott, Jung-Hyun Kim, Eleonora Uliana, Enno Schefuß, Jaap Sinninghe Damsté
- 15.30 - 15.55 O-63 **Simultaneous shifts in temperature in Central Europe and Greenland during the last deglaciation**
Cornelia I. Blaga, Gert-Jan Reichert, Andre F. Lotter, Flavio S. Anselmetti, Jaap S. Sinninghe Damsté
- 15.55 - 16.20 O-64 **Simplification and recalibration of the MBT/CBT paleothermometer based on branched tetraether lipids in globally distributed soils**
Francien Peterse, Jaap van der Meer, Johan Weijers, Noah Fierer, Robert Jackson, Jung-Hyun Kim, Stefan Schouten, Jaap Sinninghe Damsté
- 16.20 - 16.45 *Coffee break*

Water column microbial biogeochemistry

Chair: Stuart Wakeham

- 16.45 - 17.10 O-68 **Latitudinal distribution of archaeal H-lipids**
Carme Huguet, Susanne Fietz, Antoni Rosell-Melé
- 17.10 - 17.35 O-69 **Role of photooxidative processes in senescent phytoplankton cells and attached bacteria in the preservation of organic matter**
Morgan Petit, Richard Sempere, Stuart G. Wakeham, John K. Volkman, Frédéric Vaultier, Jean-François Rontani
- 17.35 - 18.00 O-70 **Deciphering the physiological significance of hopanoids in the marine geologic record**
James Saenz, Roger Summons, Timothy Eglinton, Stuart Wakeham, John Waterbury

Thursday 22nd September 2011 - Afternoon

Ball-Saal

Environment and pollution

Chair: Jan Schwarzbauer

- 15.05 - 15.30 O-65 **Fluxes and isotope composition of selected halocarbons from sea grass meadows**
Enno Bahlmann, Ingo Weinberg, Richard Seifert, Walter Michaelis
- 15.30 - 15.55 O-66 **Investigation of metagenomic clone library in biosurfactant synthesis and hydrocarbon biodegradation processes**
Suzan Vasconcellos, Bruna Dellagnezze, Valéria Oliveira, Philip Hendry, Carol Nichols, Eugenio Santos Neto, Herbert Volk
- 15.55 - 16.20 O-67 **Biogeochemical impact of CO₂ exposure on reservoir rocks and the indigenous microbial community**
Ann-Kathrin Scherf, Maren Wandrey, Kornelia Zemke, Andrea Vieth-Hillebrand, Ketzin group
- 16.20 - 16.45 *Coffee break*

Hydrocarbon production

Chair: Daniel Stoddard

- 16.45 - 17.10 O-71 **Aquathermolysis: pressure effect on gas production and oil composition**
Violaine Lamoureux-Var, Françoise Behar
- 17.10 - 17.35 O-72 **Compositional kinetic model for thermal evolution of extra heavy oils and tar sands**
Luc Fusetti, Yongchun Tang, Françoise Behar, Tuong-Van Ledoan, Paul-Marie Marquaire, Roda Bounaceur
- 17.35 - 18.00 O-73 **Designing tight-shale production strategies using diamondoid nanotechnology**
Jeremy Dahl, Shaun Moldowan, J. Michael Moldowan

Friday 23rd September 2011 - Morning

Theater-Saal

09.00 - 09.05 Opening Remarks

AOM Lipids

Chair: Daniel Birgel

09.05 - 09.30 O-74 **Tracing ¹³C-labeled inorganic carbon into intact polar lipids of thermophilic anaerobic methanotrophs provides new insights into pathways of archaeal lipid biosynthesis**
Matthias Y. Kellermann, Gunter Wegener, Yu-Shih Lin, Marcos Y. Yoshinaga, Thomas Holler, Marcus Elvert, Kai-Uwe Hinrichs

09.30 - 09.55 O-75 **Methane derived carbonates as an indicator of the bottom water anoxia: Nile deep sea fan, the Eastern Mediterranean**
Alina Stadnitskaia, Volker Liebetrau, Jaap Sinninghe Damsté

09.55 - 10.20 O-76 **Carbon fluxes in phylogenetically distinct AOM performing microbial consortia**
Sebastian Bertram, Martin Blumenberg, Richard Seifert, Martin Krüger, Walter Michaelis

10.20 - 10.45 *Coffee break*

GDGT sources

Chair: Johan Weijers

10.45 - 11.10 O-80 **Denitrifying bacteria as potential sources of isoalkane-GDGT**
Cornelia Mueller-Niggemann, Andrea Bannert, Michael Schloter, Kai Mangelsdorf, Lorenz Schwark

11.10 - 11.35 O-81 **Hydrogen isotopic compositions of archaeal tetraethers**
Masanori Kaneko, Hiroshi Naraoka

11.35 - 12.00 O-82 **Tetraether lipid profiles in cultures and sediments: novel structures and geochemical significance**
Christopher Knappy, Hugh Morgan, Brendan Keely

12.00 - 12.30 Closing Ceremony

Friday 23rd September 2011 - Morning

Ball-Saal

09.00 - 09.05 Opening Remarks

Fluid property predictions

Chair: Gary Muscio

09.05 - 09.30 O-77 **Fluid API gravity prediction in basin modelling**
Rolando di Primio, Eric Lehne, Philipp Kuhn, Friedemann Baur, Brian Horsfield

09.30 - 09.55 O-78 **Fluid property prediction from advanced mud gas (AMG) systems: opportunities and pitfalls**
Daniel McKinney, Edward Clarke, E. Esra Inan

09.55 - 10.20 O-79 **Metre-scale fluid property variation within an oil field revealed by Mud Gas Isotope Logging (MGIL)**
Andrew Murray, Daniel Dawson, Stephen Larter

10.20 - 10.45 *Coffee break*

Shale gas

Chair: Martin Fowler

10.45 - 11.10 O-83 **Evolution of "shale gases" in fractured reservoirs in the foothills of the Western Canada sedimentary basin**
Barbara Tilley, Karlis Muehlenbachs

11.10 - 11.35 O-84 **Prediction of gas volume and dryness in shale gas systems: kinetic modeling of kerogen and retained hydrocarbons thermal cracking in barnett and posidonia shales**
Françoise Behar, Daniel Jarvie

11.35 - 12.00 O-85 **Mechanistic study of shale gas generation and gas isotope fractionations**
Yongchun Tang, Daniel Xia