

Wednesday 12th

Plenary 5 Chair: Volker Thiel

9.00 - 9.25 **O38.** M. Engel & J. Zumberge
Secular change in the stable sulfur isotope composition of crude oils relative to marine sulfates and sulfides

9.25 - 9.50 **O39.** K. Allsop, M. Tibbett, P. Greenwood, E. Krull & C. Stokes
The impact of elevated CO₂ on soil carbon dynamics in a tropical savanna region

9.50 - 10.15 **O40.** K.-U. Hinrichs, H. Fredricks, F. Schubotz, J. Lipp, R. Summons, J. Biddle, A. Batzke, H. Cypionka, J. Brenchley, C. House, F. Inagaki, K. Küsel, S. Molyneaux, S. Sievert, K. Takai & A. Teske
Diversity of intact polar lipids in environmental prokaryotes: an evolving database

10.15 - 10.40 **O41.** A. Amrani, J. Turner, Q. Ma, Y. Tang & P. Hatcher
Formation of sulfur and nitrogen cross-linked macromolecules under aqueous conditions

10.40 - 10.45

Announcements

10.45 - 11.15

Break

Plenary 6 Chair: Zhengzheng Chen

11.15 - 11.40 **O42.** C. Heim, J. Lausmaa, P. Sjövall, G. Arp, U. Hahmann & V. Thiel
TOF-SIMS imaging of biomarkers in microscopic sections of microbial mats

11.40 - 12.05 **O43.** S. Rampen, S. Schouten & J. Sinninghe Damsté
Origin of 4-desmethyl-dinosteranes in sediments and oils

12.05 - 12.30 **O44.** J. Lopes, H. de B. Penteadó & S. Barbanti
Unexpected demethylated hopanes and homohopanes in oils and rock extracts from a Brazilian marginal basin

12.30 - 13.30

Lunch

13.00 - 14.30

Short Course: Bugs, Biodegradation & Biogeochemistry of Heavy Oils & Tar Sands (Steve Larter et al.)

13.30 - 15.00

Poster Sessions: Coal Geochemistry, Petroleum Case Studies, Analytical Developments & Environment & Pollution

Chemical Archaeology Chair: Jacques Connan

15.00 - 15.25 **O45.** R. Evershed, M. James, A. Mukherjee & P. Pfälzner
Biomarker reconstructions of ritual activities in a near eastern Bronze Age royal tomb

15.25 - 15.50 **O46.** A. Charrié-Duhaut, J. Connan, M. Darnell, A. Bissada, J. Spangenberg & P. Albrecht
Molecular characterisation of a widely used outside coating of a French shipwreck (18th Century AD)

15.50 - 16.15 **O47.** J. Jacob, J.-R. Disnar, F. Arnaud, E. Chapron, M. Debret, E. Lallier-Verges, M. Desmet & M. Revel-Rolland
Millet cultivation history in the Alps during the last 6000 years as revealed by a sedimentary biomarker

Stable Isotope Applications Chair: Kate Freeman

O48. A. Bowater, K. Grice, J. Curiale, K. Pierce, R. Alexander, J. Decker & B. van Aarsen
Stable carbon and hydrogen isotopic compositions and abundances of angiosperm biomarkers in oils and source rocks from the deepwater portion of the Kutei Basin, Indonesia

O49. N. Pedentchouk, B. Tipple, M. Pagani, O. Eniola & T. Wagner
Hydrogen and carbon isotope compositions of n-alkanes from leaf waxes in modern angiosperms and gymnosperms: how do they compare?

O50. Y. Heuer, J. Pohlman, M. Elvert & K.-U. Hinrichs
Carbon isotopic compositions of volatile fatty acids as proxies for biogeochemical processes in gas hydrate bearing sediments

16.15 - 16.45

Break

Chair: Toni Rosell-Melé Lipids & Temperature

16.45 - 17.10 **O51.** J. Rattray, J. van de Vossenberg, L. van Niftrik, G. Lavik, M. Kuypers, J. Brandsma, E. Hopmans, M. Strous, M. Jetten, S. Schouten & J. Sinninghe Damsté
Temperature control on ladderane lipid chain length in anammox bacteria

17.10 - 17.35 **O52.** Y. Huang, W. D'Andrea, Z. Liu & J. Toney
Alkenones in lacustrine sediments as paleoclimate indicators

Chair: Henrique de B. Penteadó Petroleum Systems (2)

O53. E. Ablya, E. Bordyg, E. Kodlaeva, T. Korneva, Dmitryi Nadezhkin, Pim van Bergen, Ron Hofland & Mark Sugden
Paleozoic petroleum systems of the West Siberian Basin - what is the evidence?

O54. K. Peters, S. Ramos, J. Zumberge, Z. Valin & C. Scotese
Chemometric restoration of source-rock paleogeography using biomarker and isotope compositions of crude oils

18.30

Coaches depart

19.00

Conference Dinner, Powderham Castle