

Monday Poster Session

P001 Dr Mohinudeen Faiz

CARBON ISOTOPE FRACTIONATION IN COAL AND MARINE SOURCE ROCKS AND IMPLICATIONS FOR EXPLORATION

Mohinudeen Faiz is a Principal Geoscientist at Origin Energy in Brisbane, Australia. He holds a Ph.D. (1993) and M.Sc. (1990) from the University of Wollongong (NSW, Australia) and a B.Sc. from University of Peradeniya (Sri Lanka) (1984). Faiz has been working for over 30 years both as a geologist and a research scientist for hydrocarbon and ground water exploration. His current role involves providing organic geochemistry and coal seam gas expertise to Origin's conventional and unconventional hydrocarbon projects. Faiz is a member of AAPG, ICCP and PESA.

P002 Mrs Lian Jiang

Biomarker signatures of Upper Cretaceous to Paleogene hydrocarbon source rocks from the Latrobe Group, Gippsland Basin

Lian Jiang is a PhD student under the Prof. Simon C. George's supervision. She is working on biomarkers of coals and shales from the Latrobe Group, Gippsland Basin.

P003 Mr Mitchell Levy

IDENTIFICATION OF CLAY MINERALS WITHIN THE SPRINGBOK FORMATION, SURAT BASIN

Mitchell Levy is a Masters student at the Queensland University of Technology. He has completed an undergraduate degree in Geoscience and Applied Geology in 2014. Having spent 3 years in Geomechanics in the Oilfield Service Industry, Mitchell took the opportunity to undertake Masters level research intended to answer questions relevant to unconventional resource development within Queensland.

Mitchell is based in Brisbane, and hopes to continue a career in Oil and Gas research and development post completion of studies.

P004 Marina Pervukhina

VTI ANISOTROPY IN THE BROWSE BASIN: CASE STUDY OF TOROSA-6 WELL

Dr. Marina Pervukhina is a Petrophysics and Geophysics Team Leader at Commonwealth Scientific and Industrial Research Organisation (Australia), working on rock physics and petrophysics of sandstones, carbonates as well as unconventional and seal shales. She specializes in stress field analysis, modelling of shale elastic properties and estimation of hydraulic permeability from log data. Marina's special interest is in intrinsic VTI anisotropy of shales and effects of clay mineralogy on their elastic properties. Marina is an author of 3 book chapters, more than 30 journal papers in ISI journals and over 60 conference papers. She's Associate Editor of Exploration Geophysics journal.

P005 Dr Romain Beucher

THE STRUCTURAL EVOLUTION OF THE NORTH WEST SHELF: A THERMOMECHANICAL MODELING APPROACH USING STRATIFIED LITHOSPHERIC RHEOLOGIES AND SURFACE PROCESSES

Postdoctoral Research Fellow at the School of Earth Science at the University of Melbourne, Romain Beucher has expertise in lithospheric scale thermo-mechanical modelling of rifts and passive margins. He has also experience with Surface processes modelling and has interested in quantifying rock

exhumation and relief evolution using low-temperature thermochronology (apatite Fission Track, U-Th/He). He is now working on coupling large-scale basin model with surface processes to study interactions and feedback between erosion and tectonics.

P006 Professor Chris Elders

MULTIPHASE DEFORMATION OF THE NORTHERN CARNARVON BASIN

Chris Elders is Chevron Professor of Petroleum geology at Curtin University. He graduated from Oxford University with a BSc and PhD and spent four years working for Shell as an Exploration geologist in the Netherlands. He moved to Royal Holloway, University of London, where he spent 20 years running an MSc course in petroleum Geoscience. He moved to Curtin University in 2013

P007 Ms Megan Lech

TRIASSIC PROVENANCE ANALYSIS OF THE ROEBUCK BASIN, NORTH WEST SHELF OF AUSTRALIA

Megan Lech holds a BSc (honours) in geology ANU and an MSc in petroleum geoscience from RHUL. She has spent most of her career at Geoscience Australia where, as a basin analyst, she has been involved in petroleum, CO₂ storage and mineral systems studies in the Roebuck and Browse basins, Vlaming Sub-basin, offshore North Perth Basin and Calvert/Isa superbasins. She also coordinated the offshore Petroleum Acreage Release program and provided input into Geoscience Australia's regional geochemical surveys. Megan is currently an ACT branch committee member for PESA

P008 Dr Shastri Nimmagadda

THE NORTH WEST SHELF (NWS), A DIGITAL PETROLEUM ECOSYSTEM (PDE) IN A BIG DATA SCALE

Shastri Nimmagadda worked for national and multinational oil & gas producing and service companies worldwide. He is currently an adjunct research fellow in the Big Data group, researching in the "Digital Ecosystems & Technologies and Knowledge Management" and now focused in "digital petroleum ecosystems (DPE) and Petroleum Management Information System (PMIS) at School of Information Systems, CBS, Curtin University, Australia. He presented and published more than 100 research papers in the international conferences and ranked journals. Shastri explores new opportunities of digital ecosystems and technologies in the sustainability research.

P009 Mr Victorien Paumard

FULL-VOLUME INTERPRETATION METHODS: APPLICATIONS FOR QUANTITATIVE SEISMIC STRATIGRAPHY AND GEOMORPHOLOGY OF THE LOWER BARROW GROUP, NORTHWEST AUSTRALIA

Victorien Paumard is a PhD student at the University of Western Australia. He graduated with a BSc in Geology and a MSc in Petroleum Geology from the UniLasalle University (France). His first research interests were centered on the stratigraphy and paleogeography of Cenozoic carbonate platforms in SE Asia. His PhD research is focused on better understanding the link between shelf-margin architecture, shallow-marine processes and deep-water systems within the Barrow Group (North West Shelf of Australia) using regional 3D seismic datasets and innovative tools and workflows in seismic interpretation. His research interests are in basin analysis, sequence stratigraphy and seismic geomorphology.

P010 John Laurie

RECALIBRATING AUSTRALIAN TRIASSIC PALYNOSTRATIGRAPHY TO THE INTERNATIONAL GEOLOGIC TIMESCALE USING HIGH RESOLUTION CA-IDTIMS DATING

Tegan Smith is a stratigrapher in the Resources Division at Geoscience Australia. She holds a BSc from UTas (double major in Earth Science and Zoology) and ANU (honours). In 2007 she undertook a PhD at the ANU before joining Geoscience Australia in 2011. She is currently in GA's Resources Advice and Promotion Branch, working on the Acreage Release product and managing the Stratigraphy and Timescales Project. Tegan is a member of PESA, the Association for Women Geologists (AWG), and Australian Science Communicators (ASC).

P011 Ms Ruken Alac

SURFACE PROCESS MODELS OF THE LAKE EYRE BASIN USING BADLANDS SOFTWARE

Ruken Alac is a PhD candidate at the University of Sydney. She received her MEngSc in Surveying and Geospatial Engineering from University of New South Wales and BS in Geophysical Engineering from Istanbul Technical University. She also holds Master of Science and Technology in Spatial Information from University of New South Wales. Her current research interests include modeling, data processing, optimization problems and data mining. She is currently working with EarthByte Group and the Basin GENESIS Hub.

P012 Mr Bradley Cave

U-PB GEOCHRONOLOGY OF APATITE AND CALCITE AT THE ERNEST HENRY DEPOSIT, NW QUEENSLAND; IMPLICATIONS FOR HYDROTHERMAL EVOLUTION AND ORE GENESIS.

I am currently undertaking my Honors year at The University of Adelaide under the supervision of Dr Richard Lilly & Dr Stijn Glorie. This consists of examining the apatite and calcite from the Ernest Henry Orebody. This includes completing geochronology on both minerals as well as examining the trace element composition of the minerals. This should provide insight into the evolution of the ore bearing fluids as well as provide information on the ore genesis.

P013 Mr John Davidson

3D MAPPING OF NSW PROJECT: SYDNEY–GUNNEDAH BASIN

John Davidson is a senior geoscientist with The Geological Survey of NSW, undertaking basin studies and managing NSW's seismic data collection. Prior to this John spent over 10 years in the petroleum industry as a seismic interpreter with a focus on structural geology in both Australian and overseas basins. John has recently been contributing to the 3D mapping of NSW project, working in the Sydney-Gunnedah Basin.

P014 Ms Xuesong Ding

MODELLING RIFTING SEQUENCE STRATIGRAPHY COUPLED WITH SURFACE PROCESS AND THERMO-MECHANICAL MODELLING

I am a PhD student in EarthByte Group, School of Geoscience, The University of Sydney since October 2015. I obtained my bachelor degree in 2014 in Ocean University of China (OUC).

P015 Ms Rhiannon Garrett

CONSTRAINING UPLAND ERODIBILITY IN CATCHMENTS DELIVERING SEDIMENT TO THE GULF OF PAPUA

Rhiannon is a second year PhD candidate from the University of Sydney. She completed her undergraduate degree and Honours thesis 'Modelling the impact of salt's thermal conductivity on temperature distribution in the context of salt tectonics' in 2014 at the University of Sydney.

P016 Mr Ben Kay

DATA VISUALISATION & INTEGRATION: AN UNDERGRADUATE PERSPECTIVE ON THE FRANK ARNOTT AWARD

Geology (Honours) Student focusing on Metamorphic Geology

P018 Mr. Jean Legault

GROUND FLOOR EM: A NEW ADAPTATION

Jean is a 30 year professional mineral exploration geophysicist who has worked in the airborne and ground geophysics contracting and consulting sectors since 1985. He obtained his BSc in geological engineering (geophysics) in 1982 from Queen's University and later his MScA in mineral engineering (geophysics) at Ecole Polytechnique in 2005. After 5 years with Sagax Geophysics (Montreal CAN) and 18 years with Quantech Geoscience (Toronto, CAN), he joined Geotech (Aurora, CAN) in 2008 where is chief geophysicist. He provides technical support to sales & marketing and his primary areas of interest are airborne EM methods applied to geologic problems

P019 Mr Chris Van Galder

ENHANCING THE R.L SMITH TEST RANGE – A DEMONSTRATION OF IMPROVED PROCESSING AND NOISE RESULTS USING FULL SPECTRUM FALCON DATA

Chris van Galder is the manager of the Airborne Gravity Gradiometry Department at CGG Multi-Physics. His interests include gravity and gravity gradiometry and data processing.

P020 Miss Xiuyan Ren

RESEARCH ON DC RESISTIVITY FOR AN ARBITRARILY ANISOTROPIC EARTH USING CIRCULAR SCANNING MEASUREMENT

Changchun Yin received a B.S. and an M.S. in geophysics from Changchun University of Earth Sciences, China, and a Ph.D. in 1999 from the Technical University of Braunschweig in Germany, where he is a German Academic Exchange Services (DAAD) scholar. He joined Fugro Airborne Surveys, Canada, as a senior research geophysicist majoring in airborne modeling and inversion. He joined the faculty of Jilin University, China, in 2011, where he is now a professor of geophysics. His research interests include modeling and inversion of geoelectromagnetic fields in complicated media for airborne, ground, including 2D and 3D electrically anisotropic media.

P021 Meng Zhaohai

ACCELERATION OF 3D POTENTIAL FIELD DATA INVERSION USING A BB ITERATIVE ALGORITHM

Meng Zhaohai PHD has graduated from Jilin University, China, and received a doctor's degree. He has long been engaged in geophysical inversion of potential field data, is committed to mineral exploration

P022 Mr Nikolce Aleksieski

TRACE ELEMENTS AND NATURALLY OCCURRING RADIOACTIVE MATERIAL ASSOCIATED WITH PRODUCED WATERS IN COAL SEAM GAS AND SHALE GAS RESOURCES AND THE MECHANISMS THAT INFLUENCE FLUID MIGRATION

Nikolce is a scientist on the rise and has been in the industry over the last few years. His prior employment as a supervisor for contaminated land remediation has given him insight on issues associated with mining. His academic background is in geology and geophysics with a postgraduate degree in environmental and sustainability with a research dissertation on impacts to groundwater relating to coal seam gas and shale gas mining. His overarching goal is to promote sustainable mining in Australia.

P023 Dr Tim Dean

THE USE OF GEOPHYSICS AS AN AID FOR CRICKET UMPIRES

Tim has an Honours degree in Geophysics from Curtin University and a PhD in Physics from the University of New South Wales. He spent more than twelve years working for WesternGeco and Schlumberger in a variety of roles related to surface and borehole seismic acquisition including field operations, software development and research located in Saudi Arabia, England, Norway and Australia. After leaving Schlumberger he worked as a sports technology Project Advisor at Hawk-eye innovations (a division of Sony). He joined Curtin Universities Department of Exploration Geophysics as a Research Fellow in August 2016.

P024 Mr Anthony Finn

USE OF ELECTRICAL GEOPHYSICS TO DELINEATE SHALLOW GROUNDWATER PATHWAYS

Macquarie University post-graduate student studying BPhil/MRES in environmental geophysical applications. Completed a graduate degree at Macquarie University in 2015 in environmental management and geophysics with a minor in geology.

P025 Mr Timothy McMillan

STRUCTURAL EVOLUTION OF THE THIRLMERE AND MOUNT TOMA MONOCLINES SOUTHERN SYDNEY BASIN NSW - A GROUNDWATER PERSPECTIVE

B.Sc. Advanced (Geology) (Honours I) at the Univ. of Wollongong; Thesis "Digital facies mapping of the Hawkesbury Sandstone through laterally extensive close-range photogrammetry.

One Year Casual undergraduate/graduate Geologist WSP | Parsons Brinckerhoff.

PhD Student at Univ. of New South Wales, Mining Engineering. Research focused on geology and groundwater of porous/fractured rock systems in the Southern Sydney Coalfields.

Australian Government Research Training Program (RTP) Scholarship supported.