

Tuesday Session 4

4A: PNG and NZ

Michelle Spooner

STRUCTURAL AND RESERVOIR DEVELOPMENT OF THE WESTERN PAPUAN BASIN GAS AND CONDENSATE FIELDS

Michelle has over 15 years of experience in E&P and scientific industries. She graduated from The Australian National University with a Bachelor of Science (First Class Honours) and PhD in Marine Geology. Michelle worked for the national geological agency, Geoscience Australia (2001 to 2009), where she was involved in various projects within Petroleum Energy, Coastal and Carbon Capture and Storage groups.

Michelle joined Planet Gas Ltd in 2010 as an exploration geoscientist and Geothermal Project Manager. In 2012 she joined Horizon Oil Ltd as a Development Geologist focusing on prospect evaluation, reservoir characterisation and development of the company's assets.

John Warburton

John Warburton graduated with BSc Honours in Geological Sciences from the University of Leeds, UK and holds a PhD in Structural Geology from Swansea University. He has 34 years of international petroleum industry experience mostly with BP, Oil Search and Eni. He is currently Chief of Geoscience & Exploration Excellence Oil Search Ltd, Independent Non-Executive Director of Senex Energy Ltd and Non-Executive Director and former Chief Executive Officer of Imperial Oil & Gas Ltd. John is a Visiting Professor at the School of Earth & Environment at the University of Leeds where he also serves on the External Advisory Board for Petroleum Engineering & Geoscience. John is a Fellow of the Geological Society of London, Member of the Petroleum Exploration Societies of Great Britain (PESGB) and of Australia (PESA) and a Member of the Australian Institute of Company Directors.

4B: West Australian Basins Symposium

Lidena Carr

ONSHORE INVENTORY – TARGETING NEW BASINS (OFFICER, PERTH, CANNING BASINS)

Lidena is a geoscientist for the onshore energy systems project within the Resources Division at Geoscience Australia. She graduated from the Australian National University (ANU) majoring in Geology and Human Ecology with a BA/BSc (Hons) in 2004, and began working as a technical officer at the Research School of Earth Sciences (ANU). In 2007 She joined Geoscience Australia with the then ACRES, in 2009 she moved to the then Onshore Energy and Mineral Division to work as a seismic interpreter and basin analyst. Currently she works within the Onshore Energy Section as part of the Exploring for the Future program.

Jarrad Grahame

PALEOZOIC & MESOZOIC HYDROCARBON PLAYS OF THE CASWELL SUB-BASIN: KEY INSIGHTS FROM NEW INTERPRETATION & MODELLING OF THE SCHILD II 3D

Jarrad Grahame currently holds the position of Geoscientist at CGGMulti Client and New Ventures for the Asia-Pacific region. Jarrad studied Exploration Geophysics at Curtin University of Technology in Perth, Western Australia before joining the oil and gas exploration industry. Jarrad's primary role involves seismic interpretation and integration of well and seismic datasets for offshore basins,

including clastic, carbonate resource plays. Jarrad has worked on basins in Australia, New Zealand, South-East Asia and North America, encompassing a wide range of depositional environments. Jarrad has participated in regional studies and petroleum system analyses for a range of integrated geoscience projects.

Sara Morón-polanco

THE EFFECT OF FLEXURAL ISOSTASY ON DELTA ARCHITECTURE: IMPLICATIONS FOR THE MUNGAROO FORMATION

Sara Morón is a geoscientist with more than 7 years of experience in industry and academia. Sara holds a PhD in Petroleum Geology from the University of Adelaide and a B.Sc in Geology from the University of Minnesota, USA. Sara combines numerical modelling and field data to better understand fluvio-deltaic systems and to provide insights to the petroleum industry. Sara had worked in multiple interdisciplinary projects in Australia and the Americas, including the understanding of the tectono-stratigraphic evolution and closure of the Panama Isthmus.

I am currently a postdoctoral research fellow at the University of Melbourne.

Tayallen Velayatham

Linear Trends of Paleo-pockmarks and Fluid Flow Pipes in the Jurassic and Triassic Sediments of Offshore Northwest Australia

Prior to starting my research candidature, I have worked in the oil and gas industry for eight years, six years in seismic acquisition and processing, and two years in seismic inversion. I am currently pursuing a Masters of Philosophy on subsurface fluid migration offshore northwest and south Australia.

4C: Non Conventional

Surabhi Mishra Santos

USING MULTIAZIMUTH SEISMIC DATA FOR ANISOTROPY ESTIMATION IN AN UNCONVENTIONAL RESERVOIR

Surabhi Mishra is a Senior Geophysicist in Santos. She is a Masters in Applied Geophysics and has 13 years of insightful experience in Oil and Gas Industry Experience. These last 13 years have been promising for her as she got exposure to structural and quantitative interpretation in both conventional and unconventional fields.

Shastri Nimmagadda

INTEGRATED SEISMIC FOR SHALE GAS EXPLORATION AND MANAGEMENT

Shastri Nimmagadda worked for national and multinational oil & gas producing and service companies worldwide. He is currently a 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 the 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.

Muhammad Asad Pirzada

FIRST SUCCESSFUL HYDRAULIC FRACTURING TREATMENT ON A CHALLENGING RIZQ FIELD

Muhammad Asad Pirzada is a graduate of Mechanical Engineering from University of Engineering & Technology, Lahore. He started his professional career from Schlumberger Pakistan in 2012 as a Field Engineer Trainee in Fracturing and Stimulation services and later on became independent engineer of Frac jobs in Pakistan and Yemen. He has also worked as Engineer-in-charge/Cell Leader for WPS Pakistan for interim period. Currently he is pursuing his masters degree in petroleum engineering from UNSW, Australia and is also student assistant (Tutor) for Dr.Hamid Roshan

Muhammad Asad Pirzada

A New Computational Model to Predict Breakdown Pressures in Cased and Perforated Wells in Unconventional Reservoirs

Muhammad Asad Pirzada is a graduate of Mechanical Engineering from University of Engineering & Technology, Lahore. He started his professional career from Schlumberger Pakistan in 2012 as a Field Engineer Trainee in Fracturing and Stimulation services and later on became independent engineer of Frac jobs in Pakistan and Yemen. He has also worked as Engineer-in-charge/Cell Leader for WPS Pakistan for interim period. Currently he is pursuing his masters degree in petroleum engineering from UNSW, Australia and is also student assistant (Tutor) for Dr.Hamid Roshan

4D: Geophysics Technology

Carlos Cevallos

MATHEMATICAL PROPERTIES AND PHYSICAL MEANING OF THE GRAVITY GRADIENT TENSOR EIGENVALUES

Carlos Cevallos is a senior interpretation geophysicist living in Perth Australia. His previous work was at CGG Multi-Physics, the Geological Survey of NSW, Noranda and The University of Queensland. He is a physicist whose interests are to integrate geological and geophysical data and to find new ways to interpret potential field data. He holds a B.Sc. degree from UNAM, Mexico, a M.Sc. degree from CICESE, Mexico, and a Ph.D. degree from Macquarie University, Australia.

Anton Kepic

SCINTILLATORS FOR PGNAI IN MINERAL EXPLORATION

Anton Kepic received a Ph.D. (1995) from the University of British Columbia, Canada. After he was employed at Western Mining Corporation, he began to work for Curtin University, Australia, in 1999, and now he is a professor at the Department of Exploration Geophysics. His research interests are in geophysical instrumentation, TEM acquisition and signal processing, seismoelectric studies, and application of geophysical methods in new environments. In 2016 Professor Anton Kepic has been appointed Boart Longyear professorial chair at Curtin University in WA.

Nikhil Prakash

APPLICATION OF PASSIVE SEISMIC IN DETERMINING OVERBURDEN THICKNESS: NORTH WEST ZAMBIA

Nikhil Prakash is an exploration geophysicist with 5 years of work experience in mineral exploration for Diamond, Iron Ore, Uranium and Copper. He is currently a project geophysicist with Rio Tinto in

Australasia region based out of Perth. In his previous roles, he has also managed ground geophysical programmes in India and China.

4E: Strategic and Industrial

Phil Hellman

Evaluating Rare Earth Deposits

Dr. Phillip Hellman is a former Principal of Hellman and Schofield Pty Ltd and an associate of H&S Consultants. He has worked on numerous rare earth projects in Australia, Asia and Africa, India, Madagascar, Mongolia, Saudi Arabia, USA and is the author of various specialist papers on the geochemistry of rare earth elements ("REE") and REE deposits.

Iggy Tan

ALTECH IS MEETING A SAPPHIRE FUTURE

Mr Tan is a highly experienced mining and chemical executive with a number of significant achievements in commercial mining projects such as capital raisings, funding, construction, start-ups and operations. Mr Tan has over 30 years' chemical and mining experience and has been an executive director of a number of ASX-listed companies. Having been involved in the commissioning and start-up of seven resource projects in Australia and overseas, including high purity technology projects, Mr Tan is an accomplished project builder and developer. Mr Tan previously held the positions of managing director of Nickelore Limited, Galaxy Resources Limited and Kogi Iron Limited.

4F: Magnetotellurics

Lachlan Hennessy

Rapid targeting of a conductivity anomaly using lightning sourced audio-frequency magnetotellurics

Lachlan Hennessy is a PhD candidate at RMIT University studying under the supervision of Professor James Macnae. He is currently carrying out research concerning the use of lightning source information in processing and interpretation of natural fields electromagnetic data. He is also a geophysicist at Newexco Services Pty. Ltd.

4G: Regional Mapping

Sandra Occhipinti

ARCHEAN CONTROLS ON BASIN DEVELOPMENT & MINERALISATION IN THE SOUTHERN CAPRICORN OROGEN

Completed a BSc Geology at Monash University in 1992. In 1994 she received an MSc in 1994. Worked for the Geological Survey of Western Australia in their Regional Mapping Group. In 2004 she received a PhD from Curtin University. Completed a short post-doc at Curtin University prior to working for Fugro Airborne surveys from 2005 to 2007 as an Interpretation Geoscientist concentrating on West Africa. Worked with AngloGold Ashanti in their Global Greenfields Project Generation team until 2014, before joining the CET, where she works combining geological, geophysical, geochemical, and geochronological data to define geodynamic models to aid Mineral Systems Analysis.

4H: Groundwater Case Studies

James Hansen

REINTERPRETATION OF WIRELINE LOG DATA IN THE EASTERN GALILEE BASIN, QUEENSLAND: STRATIGRAPHICAL AND HYDROGEOLOGICAL IMPLICATIONS

The author graduated from the Queensland University of Technology in 1997 with a Masters of Applied Science focussing on igneous petrology and geochemistry. Since 2002 he has worked for the Queensland Government in the groundwater investigations team that is currently part of the Queensland Hydrology Unit in the Science Division of the Department of Science, Information Technology and Innovation. Prior to this he has worked in the Oil and Gas, and Minerals sectors. In total he has approximately 20 years of experience in stratigraphic and hydrostratigraphic interpretation of wireline log data.

Jean Legault

Characterizing the Spiritwood Valley Aquifer, North Dakota, using helicopter time-domain electromagnetics

Jean Legault 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 a BAsC in geological engineering (geophysics) in 1982 from Queen's University and 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.