

## Tuesday Poster Session

### **P026 P027 Mr Hasbi Fikru Syabi**

DETERMINING UPFLOW/OUTFLOW ZONE AND FLUIDS FLOWS IN GEOTHERMAL PROSPECT AREA BASED ON GEOINDICATOR COMPARISON VALUE: A CASE STUDY OF MT. TELOMOYO, CENTRAL JAVA, INDONESIA

SOIL AND FLUIDS GEOCHEMISTRY ANALYSIS TO DETERMINE NON-VOLCANIC GEOTHERMAL POTENTIAL, CASE STUDY OF BAYAH, BANTEN, INDONESIA

My name is Hasbi Fikru Syabi, born in Majalengka, Indonesia, June 16th, 1996. I was the first child of 3 siblings. My father and my mother were a teacher.

When I was 6 years old, I started school at Cimanggu Elementary School, Majalengka, then after graduation continue the education at the Nurul Huda Cimanggu Junior High School. After graduated then continue school in Talaga High School, Majalengka. I graduated from high school in 2014. Since 2014 until now I study in University of Padjadjaran majoring in Geological Engineering.

### **P028 Mr David Moore**

FULL SPECTRUM GRAVITY A CASE STUDY FROM THE SOUTH SUMATRA BASIN

David Moore is a geoscientist with over 30 years' experience in both minerals and petroleum exploration. David graduated from LaTrobe University with a BSc in Geology, and will soon complete a Masters in Petroleum Geoscience from Royal Holloway. He has spent the majority of his professional career interpreting potential field data, focussing on integrating gravity gradiometry data into the exploration workflow. He is a member of SEAPEX and ASEG, and is currently a business development manager at CGG.

### **P029 Rifqi Alfadhillah Sentosa**

STRUCTURAL GEOLOGY ANALYSIS USING REMOTE SENSING METHOD AND ITS CORRELATION TO GEOTHERMAL OCCURENCE IN BAYAH DISTRICT, BANTEN

Undergraduate student at Padjadjaran University, Indonesia

### **P030 Ms Carmen Braz**

GEODYNAMIC AND SURFACE PROCESS EVOLUTION OF NEW GUINEA SINCE THE JURASSIC

Carmen Braz is a PhD candidate at the University of Sydney within the EarthByte Group and Basin GENESIS Hub. Carmen's research interests centre on the surface expression of deep Earth processes and the subsequent effects on basin evolution. This has lead Carmen to the focus of her current research, Papua New Guinea, which has seen episodic basin growth within a tectonically active environment.

### **P031 Mr Aurio Erdi**

NEW PERSPECTIVE OF MESOZOIC HYDROCARBON PROSPECTIVITY WITHIN WEST TIMOR

Aurio Erdi graduated in geology from Institut Teknologi Bandung in 2011 and undertook post-graduate studies in petroleum geoscience for exploration from the University of Manchester in 2016. Since 2011, he has worked as a researcher in Geodynamic Research Group-Institut Teknologi

Bandung in few research projects related to hydrocarbon exploration supported by industrial company mainly in Indonesia. Research interest: Structural geology, basin analysis and geophysics.

**P032 Doctor Guillaume Sanchez**

UNRAVELING DEEP STRUCTURES ALONG A PASSIVE-TRANSFORM MARGIN: INSIGHTS FROM AN INTEGRATED GEOPHYSICAL STUDY OF THE NORTHERN PERTH BASIN.

Guillaume Sanchez is a senior geoscientist at FROGTECH Geoscience with more than 4 years of post-PhD experience in the petroleum industry. Guillaume provides expertise in basement and basin evolution as well as geodynamics using surface (stratigraphic and structural) and subsurface (potential field and seismic) interpretation tools. Guillaume has worked in basins related projects across NW Australia, PNG, SE Asia, Oman, NE Africa, Mediterranean. Prior to joining FROGTECH Geoscience in 2012, Guillaume worked as a Researcher Assistant at the University of Nice-Sophia Antipolis, France. His main research focuses on crustal deformation in a collisional belt, basement exhumation and basin inversion.

**P033 P034 Mr Chris Southby**

STRUCTURAL CHARACTERISTICS OF THE NORTHERN HOUTMAN SUB-BASIN, PERTH BASIN

TECTONO-STRATIGRAPHIC DEVELOPMENT OF THE NORTHERN HOUTMAN SUB-BASIN, PERTH BASIN

Chris Southby is a geoscientist in Geoscience Australia's Resources Division, Energy Systems Branch. He completed his Honours at Australian National University in 2004, on palaeo-climate geochemistry of corals from Papua New Guinea. Since joining Geoscience Australia in 2005 he has contributed to a number of projects under the National CO2 Infrastructure Plan including the CO2 Storage Potential of the Vlaming Sub-basin. He is currently contributing to seismic structural and stratigraphic interpretation of the Houtman Sub-basin. Member: PESA.

**P035 Dr Jade Anderson**

TOWARDS A U-PB AGE MAP FOR NORTHERN AUSTRALIA

Dr Jade Anderson has a research background in U-Pb geochronology, metamorphism and Proterozoic Australia tectonics.

**P036 Ms Casey Blundell**

INTERPRETING GEOLOGY FROM GEOPHYSICS IN POLYDEFORMED TERRANES: THE OTAGO SCHIST, NEW ZEALAND

PhD candidate with the school of Earth, Atmosphere and Environment at Monash University, Victoria. Focus of research is in structural geology and geophysics, with application to regional and local mineral systems. Casey is interested in developing her research further to address the broader tectonic regimes governing regional structural evolution through time.

**P037 Miss Astrid Carlton**

HOW TO ACCESS NEW SOUTH WALES GEOPHYSICAL DATA

CARLTON Astrid is a geophysicist with the NSW Department of Planning & Environment in Maitland working on the New Frontiers exploration initiative. Astrid currently reviews geophysical submissions from exploration, maintains government and company geophysical databases, works on regional geophysical acquisition and provides geophysical data to customers. Astrid has interpreted

and modelled aeromagnetic data in NSW to support mapping projects. Prior to working with the The Department, Astrid conducted shallow environmental surveys and unexploded ordnance surveys around Australia, in Hong Kong and in the United Kingdom.

**P039 Professor Graham Heinson**

**ELECTRICAL RESISTIVITY MAPS OF THE AUSTRALIAN LOWER CRUST**

Professor Graham Heinson has over 25 years of experience using magnetotellurics, or MT for short. His group has run the national AuScope MT facility for the last ten years, and is involved in a wide range of research activities, including the national MT mapping program AusLAMP, and 4D monitoring of fluids for hydrocarbon and geothermal energy development. His group were finalists for the Eureka awards (in the category Land and Water) and were recent winners (November 2013) of the Australian Innovation Challenge (in the category Minerals and Energy).

**P040 Professor Graham Heinson**

**WHY DO WE NEED TO KNOW THE ELECTRICAL RESISTIVITY STRUCTURE OF OCEANIC LITHOSPHERE?**

Jake Macfarlane is currently a PhD student at the University of Adelaide, having completed a BSc and Honours at the same institution.

**P041 Dr Andrew King**

**CONSTRAINING AIRBORNE ELECTROMAGNETIC REGOLITH MAPPING WITH LANDSCAPE EVOLUTION**

Andrew has a broad background in geophysics, having worked in potential field and EM techniques for exploration, and seismic methods for mining problems. He has a PhD from Macquarie University in electromagnetic geophysics. He has worked for CSIRO since 2000, apart from a three-year fellowship in the US, where he worked on seismic monitoring for mine safety.

Andrew is currently working on the inversion of EM data, and on development of passive seismic techniques.

**P042 Dr Alison Kirkby**

**DEVELOPMENT OF THE MTPY SOFTWARE PACKAGE FOR MAGNETOTELLURIC DATA ANALYSIS**

Alison completed her MSc in Geology in 2008 and joined Geoscience Australia in the same year. She worked in the Geothermal Section for several years before commencing her PhD, which she completed in 2016. She now works in the magnetotelluric and seismic data acquisition and processing section at Geoscience Australia where she is involved in magnetotelluric data collection, interpretation, and software development.

**P043 Miss Laura Phillips**

**DETRITAL ZIRCON ANALYSIS FROM THE GALILEE BASIN, QUEENSLAND.**

Ms Laura Phillips is a PhD student at the University of Queensland. She gained a BSc in Geology at Royal Holloway, University of London in 2009, then a Master of Research (MRes) in The Science of Natural Hazards at the University of Bristol in 2010. She moved to Australia in 2011 and worked as an exploration geologist in the Galilee Basin. Her work within the basin spurred the desire to pursue a doctorate in the subject, starting her PhD in 2014 looking into the stratigraphy and provenance of late Permian aged sediments within the Galilee Basin.

**P044 Dr Daniel Sattel**

## SQUARE-WAVE PROCESSING OF MEGATEM DATA

Daniel Sattel holds a Ph.D. in geophysics from Macquarie University, where he specialized in electromagnetics. He worked for World Geoscience/Fugro Airborne Surveys in Perth from 1996-2004, where he was involved in the development of EM software and the interpretation of airborne EM data. In 2004 he moved to Golden, Colorado, from where he works as an independent consulting geophysicist.

**P045 Rifqi Alfadhillah Sentosa**

## MERCURY AND SOIL CARBON DIOXIDE ANALYSIS TO DETERMINE GEOTHERMAL RESOURCES IN MT. TELOMOYO, CENTRAL JAVA. INDONESIA

Undergraduate Student at Padjadjaran University, Indonesia.

**P046 P047 Ms Janelle Simpson**

## EXPLORING MAGNETOTELLURIC MODEL SPACE

## USING DOWNHOLE RESISTIVITY TO BETTER UNDERSTAND MAGNETOTELLURIC INVERSION

Janelle has worked with the minerals team at the Geological Survey of Queensland for 7 years. She started a PhD at Adelaide University focused on inversion and interpretation of magnetotelluric data in 2014 and is nearing completion.

**P048 Ms Huang Xin**

## 3D AIRBORNE EM ANISOTROPIC EFFECT AND IDENTIFICATION MODELING BY SE METHOD

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.

**P049 Dr Gilles Brocard**

## TRANSCONTINENTAL CENOZOIC PALEOVALLEYS OF WESTERN AUSTRALIA

Gilles Brocard is a researcher in geomorphology and tectonics. He has conducted research on river drainage development, river long profile changes, cosmogenic<sup>10</sup>Be-<sup>26</sup>Al dating, neotectonics, paleoseismicity, and geodynamics in various settings (most notably Alps, Turkey, Puerto Rico, Guatemala), through various post doctoral positions in France, Switzerland and the United States, at the universities of Grenoble, Rouen, Lausanne, Minnesota, and Pennsylvania. His current research at the University of Sydney aims at understanding landscape evolution along Australia's North West Shelf and in New Guinea.

**P050 Dr. Shigeo Okuma**

## MAGNETIC IMAGING OF ULTRAMAFIC BODIES ON THE SITE OF THE OHI NUCLEAR POWER STATION, CENTRAL JAPAN

Chief Senior Researcher at the Geological Survey of Japan since 2012.

**P051 Dr Laura Gow**

USING HYDROGEOPHYSICAL TECHNIQUES TO CHARACTERISE AND MAP SEA WATER INTRUSION AND PREFERENTIAL FLOW PATHS IN HOWARDS EAST AQUIFER, DARWIN RURAL AREA, NORTHERN TERRITORY

Melissa Woltmann is a hydrogeologist with the Department of Environment and Natural Resources in the Northern Territory Government. Mel previously worked for the National Water Commission in Canberra, and has over 5 years experience in the hydrogeology of groundwater systems in the Northern Territory.