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| T2.8 - Geoscience Education at school level | <i>Date</i> Wednesday, 31 August 2016 | <i>Time</i> 10:30 to 12:00 |
| | <i>Chair</i> | <i>Room</i> MR 1.64 |

| Times | | Paper # Title | Speaker | |
|--------------|-------|---|------------------------|---------|
| 10:30 | 11:00 | 897 Launch of the 'Sand on a sill' international collaborative research project | Prof. Chris King | Keynote |
| 11:00 | 11:15 | 3909 'Sand on a sill' – International collaborative research project: An Australian perspective | Dr. Bronte Nicholls | |
| 11:15 | 11:30 | 5553 Promoting Earth sciences teaching-learning in the Italian schools: a research of learning objects, effective educational approaches, to improve skills and competences | Dr. Susanna Occhipinti | |
| 11:30 | 11:45 | 5021 Small gesture, big effect! Investigation of the role of gestures in teaching plate tectonics through an eye tracking experiment! | Dr. Dominik Conrad | |
| 11:45 | 12:00 | 3528 Understanding the Process of Co-Constructive Learning with Scientific Modeling in Geological Field Trip. | Jr. Yoon-Sung Choi | |

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| 14:00 | 14:15 | 4141 How did the earthquake-related content of Rika textbooks change after the 2011 Tohoku-oki earthquake? | Dr. Hiroo Nemoto |
| 14:15 | 14:30 | 891 Earthlearningidea: a global web-based resource of geoscience teaching ideas - an analysis | Prof. Chris King |
| 14:30 | 14:45 | 3544 ICT in Geoscience education from International Geoscience School SYLLABUS | Dr. Rosely Imbernon |
| 14:45 | 15:00 | 3317 APPLICATION OF GEO-EDUCATION METHODS ON EGYPTIAN ELEMENTARY SCHOOL STUDENTS | Dr. Kholoud Abdel Maksoud |
| 15:00 | 15:15 | 2912 Curriculum reform can make a difference. The case of the introduction of palaeontology and evolution into the South African School Curriculum . | Dr. Ian McKay |
| 15:15 | 15:30 | 5194 Geo-Education made easy through debating | Mrs Helke Mocke |

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| 16:00 | 16:15 | 4315 Training field mapping geologists; the Council for Geoscience (CGS) Field School experience | Mr. Nick Baglow |
| 16:15 | 16:30 | 4896 Ten years experience of International Earth Science Olympiad: what is the worldwide impact on Earth Science Education? | Dr. Rosely Imbernon |
| 16:30 | 16:45 | 2748 Earthquake models used in class: What about their weaknesses? | Dr. Jose Selles-Martinez |
| 16:45 | 17:00 | 4065 Desktop Toys for Educational Seismology -Random or Periodic? Before or After?- | Mr. Yoshio Okamoto |
| 17:00 | 17:15 | 3835 Keeping geosciences curricula at the tertiary level relevant - a South African example, School of Geosciences, University of the Witwatersrand. | Prof. Gillian Drennan |
| 17:15 | 17:30 | 2780 Location and Visualization—the Keys to Geological Education and Research | Dr. Callan Bentley |

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| | 85 An ethno-methodological approach to the formation of indigenous teachers in the Amazon region (acre, Brazil) - The concept of soil | Dr. Rosely Imbernon |
| | 2246 Geo Science Education in Malawi: The Case of Geography in Secondary Schools | Mrs. Yvonne Nduche Fransiska Mwalwenje |
| | 1289 Up-warp and down-warp characteristic of strike-slip fault zone and its geological significance in the mid-eastern part of the Trim Basin Northwest China | Mr. Renhai Pu |
| | 1292 The Importance of Early Childhood Earth Science Education: Understanding of the Planet That We Live On Is a Fundamental Step Toward Sustainability | Dr. Patricia Vickers Rich |
| | 1695 A FIELD-BASED METHOD FOR TEACHING UNIFORMITARIAN PRINCIPLES USING TRACKWAY RECONSTRUCTIONS | Mr. William Garcia |
| | 1322 Clay mineralogy in parts of the subsurface of Tapti – Daman block, western offshore basin, India: a lead to reservoir characterisation | Dr. Ashish Sarkar |
| | 1471 Communicating Geoscience with the Public Through Print Publications – the Importance of Understanding Cognitive Differences in Audiences | Dr. Christopher Keane |
| | 968 Radio-anomalies and acoustic emissions for the teaching of Seismology | Dr. Valentino Straser |
| | 445 Effect of Fracture Properties on WAG and SWAG process In fractured reservoirs | Dr. Bahram Habibnia |
| | 2364 Educational practices in Oga Peninsula-Ogata Geopark, northeast Japan. | Prof. Norihito Kawamura |
| | 447 Application of Microtremors to Identify Hydrocarbon Reservoirs | Dr. Bahram Habibnia |
| | 2665 Influences of litho-static pressure on deep sandstones: insight from single-factor simulation | Dr. Jingtang Cui |
| | 5332 Petroleum prospecting problems in the base plate and hydrocarbons migration channels definition | Ms. Irina Yakhina |
| | 3471 Pyrolysis simulation experiment study on diagenesis and evolution of organic-rich shale | Dr. Dong Chunmei |
| | 4835 The importance of non-formal education for geoconservation: the example of the Museum of Una – São José da Coroa Grande (Pernambuco, NE Brazil) | Dr. Artur Sá |
| | 5149 Science and Education at Congaree National Park | Ms. Tarryn Lee |
| | 392 Application of a New Wavelet Threshold Method in Unconventional Oil and Gas Reservoir Seismic Data Denoising | Dr. Guxi Wang |
| | 2273 Depositional filling model and subtle traps distribution in continental faulted basin tightly controlled by faulting and lake level | Mr. Daotao Dong |
| | 3230 Volcanic accumulation modes of the third member of Kongdian Formation in Weibei Sag, Bohaiwan Basin | Dr. Yaoting Sun |
| | 2071 The Supersphere Characters: Children's Books (up to 5 years) Promoting Geoscience and Environmental Education | Mrs. Gisele Vasconcelos |
| | 4538 Educational Program "GEA – Mother Earth": a story of success linking Geosciences to Society in the Portuguese speaking countries | Dr. Artur Sá |
| | 1751 2D Multi-Transient Electromagnetic Modelling of Pseudo Synthetic Earth Model from Part of Anambra Basin, Nigeria. | Dr. Olalekan Fayemi |
| | 2612 Distribution and Evaluation of Carboniferous Source Rocks in the Juggar Basin | St. Yongfu Zhao |
| | 407 Unconventional oil and gas wells horizontal wells preferred demonstration analysis | Dr. Si Guo |

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| | 4066 Low-Cost and Easy-Made Horizontal Seismometer with Arduino for Educational Use -Demonstration and Observation-- | Mr. Yoshio Okamoto |
| | 5199 The Recession – sink or swim: an opportunity for Young Earth Scientists to innovate | Ms. Victoria Upindi |
| | 2431 Gauging how novice geologists process and learn in first field experiences | Dr. Megan D'Errico |

| Times | | Paper # Title | Speaker | |
|-------|-------|--|------------------------|---------|
| 08:00 | 08:30 | 4618 The Changing Dynamics of the U.S. Geoscience Workforce Compared to the International Geoscience Workforce | Ms. Carolyn Wilson | Keynote |
| 08:30 | 09:00 | 517 The Strategic Plan of the Australian Geoscience Council – development, implementation and early results | Dr. Bill Shaw | Keynote |
| 09:00 | 09:15 | 809 Utility-scale wind energy projects: managing public perception and environmental risk | Prof. Michael Slattery | |
| 09:15 | 09:30 | 895 Our 'International year of Earth science educator stories' project | Prof. Chris King | |
| 09:45 | 10:00 | 4163 On the Cutting Edge: A Global Resource to Support Excellence in Geoscience Education | Dr. David Mogk | |

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|-------|-------|--|-------------------|
| 10:30 | 10:45 | 1266 AusGeol.org – A Virtual Library of Australia's Geology | Dr. Michael Roach |
| 10:45 | 11:00 | 2497 A Swiss - Icelandic Recipe for Successful Continuing Education Program in Applied Geology-The Concept of the Certificate of Advanced Studies (CAS) in Applied Earth Sciences at ETH Zürich, Switzerland. Guarantor for Persistence in a Rapidly Changing Market Environment | Dr. Björn Oddsson |
| 11:00 | 11:15 | 2915 Are you related to a cabbage: A pragmatic approach to teaching evolution in the classroom and dealing with fundamentalist religious beliefs. | Dr. Ian McKay |
| 11:15 | 11:30 | 5165 An Introduction to Innovation Terminology for Mining/Geology Professionals | Dr. Gargi Mishra |
| 11:30 | 11:45 | 3148 Geoscience Education – Meeting social responsibility and operational requirements at Lonmin Marikana Operations. | Mrs. Riana Knipe |
| 11:45 | 12:00 | 3978 Passing the Torch: Broad, but not shallow, teaching by senior geologists with a highly diversified career experience | Mr. Roland Loewer |

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|-------|-------|---|--------------------------|
| 14:00 | 14:15 | 3815 Developing a low cost crystallography workshop for learners | Dr. Tanja Reinhardt |
| 14:15 | 14:30 | 2916 Drinking tour through the museum | Dr. Jose Selles-Martinez |
| 14:30 | 14:45 | 2982 Education programmes and facilities at Geoscience Australia | Mrs. Shona Blewett |
| 14:45 | 15:00 | 2682 Delivering authentic online practical science teaching – geoscience perspectives from the OpenScience Laboratory | Dr. Tom Argles |
| 15:00 | 15:15 | 1717 Development of Interactive Web Applications for Geoscience Education | Prof. Takashi Sawaguchi |
| 15:15 | 15:30 | 837 Visualising early life on Earth: Building a 4-Dimensional virtual field trip (VFT) of the 3.5 Ga Dresser Formation, North Pole Dome, Pilbara Craton, Western Australia. | Ms. Tara Djokic |

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|-------|-------|---|---------------------|
| 16:00 | 16:15 | 4205 Audiovisual resources and communication: a laboratory discipline for scientific popularization of Geosciences | Dr. Rosely Imbernon |
| 16:15 | 16:30 | 5404 Bringing diverse talent to the geophysics workforce, a review of the AfricaArray International Geophysics Field School | Prof. Susan Webb |
| 16:30 | 16:45 | 4197 Connecting innovation and Geoscience knowledge for Brazilian basic education teachers | Dr. Rosely Imbernon |

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|-------|-------|---|-------------------------|
| 08:00 | 08:15 | 4237 The role of belief, trust and values in communicating controversial geoscience topics | Dr. Steven Anderson |
| 08:15 | 08:30 | 3083 Linking Geoscientists and Geoscience Information with Decision Makers at the U.S. Federal, State, and Local Levels | Dr. Maeve Boland |
| 08:30 | 08:45 | 3306 Ten Geological Superlatives of South Africa in a special issue of Postage Stamps to celebrate the 35 th International Geological Congress at Cape Town, 2016 | Mr. Pieter Bosch |
| 08:45 | 09:00 | 4151 Communicating geoscience knowledge at the time of natural disaster- experiences from Manipal, southwest coast of India | Dr. Keshava Balakrishna |
| 09:00 | 09:15 | 2352 GeoEducation and cooperation for sustainable development of the coast zone in East and Southeast Asia, a case demonstration for Geology 20+ ? | Dr. Ping YIN |
| 09:15 | 09:30 | 3213 Geolodía (Geoloday): yearly-running of fifty simultaneous Geological fieldtrips across Spain open to the general public | Prof. Marcos Aurell |

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|-------|-------|--|------------------------|
| 10:30 | 10:45 | 1609 TravelingGeologist: an online platform for disseminating Earth Science research and inspiring the next generation of field geologists | Dr Christopher Spencer |
| 10:45 | 11:15 | 1240 Place-based geoscience education: A narrative from the Southwestern United States | Dr. Steven Semken |
| 11:15 | 11:30 | 3821 Geoscience and Indigenous Knowledge: Lightning and the Lowveld Lavender | Dr. Ann Cameron |
| 11:30 | 11:45 | 5429 Promoting Young Earth Scientists for Future Earth from G20+ to the World | Mr. Meng Wang |
| 11:45 | 12:00 | 2109 FieldscapesVR: Virtual world field trips to extend and enrich field teaching | Dr. Tom Argles |

Keynote

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| 14:00 | 14:15 | 821 A Field-Based Volcanology Course in Ecuador: From the Andes to the Galapagos Islands | Dr. Daniel Kelley |
| 14:30 | 14:45 | 933 Building Good Foundations: Skills for Effective Engagement in Sustainable Development | Mr. Joel Gill |
| 14:45 | 15:00 | 5075 Matching mining and geoscience focussed education with industry needs and demand: Lessons from INTRAW's reference countries. | Prof. Kip Jeffrey |