

**T29.1 - Basin Formation and Continental Margins***Date* **Monday, 29 August 2016***Time* **14:00** *to* **15:30***Chair**Room* **Hall 4B3**

<b>Times</b>		<b>Paper # Title</b>	<b>Speaker</b>
14:00	14:15	5017 Linking lithosphere deformation and sedimentary basin formation over multiple scales	Prof. Ritske S. Huismans
14:15	14:30	5030 Long-term coupling and feedbacks between surface processes and tectonics during rifting	Prof. Ritske S. Huismans
14:30	14:45	5027 The critical role of extension-orthogonal shears in oblique rift development	Prof. Ritske S. Huismans
14:45	15:00	1331 Crustal structure and evolution of the Kenya-Tanzania shear margin	Dr. Jean-Claude Ringenbach
15:00	15:15	4973 Magmatic underplating in continental lithosphere	Prof. Hans Thybo Prof. Irina ARTEMIEVA
15:15	15:30	5526 Exploring the contrasts between fast and slow rifting	A De Montserrat

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16:00	16:15	4303 Basin architecture and evolution at NE Atlantic conjugate margins	Prof. Jan Inge Faleide
16:15	16:30	1075 Mechanisms of crustal extension in the Basin and Range Province	Prof. Nicholas Christie-Blick
16:30	16:45	2790 Deepening events and sediment routing systems in migrating rifts. Insights from the Corinth rift	Professor Mary Ford
16:45	17:00	1167 The Structure and Sequence Stratigraphic Architecture Evolution of Rifting Stage, Lishu Faulted-depression, Songliao Basin, China	Prof. Hongyu Wang
17:00	17:15	1477 On the Linkage of the Western Boundary Faults of the South China Sea	Dr. Yongjian Yao
17:15	17:30	599 Tectonic stress evolution and a new origin model of Bohai Bay basin, China	Prof. Hengmao Tong

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	997 The application of magnetic amplitude inversion for structure interpretation in South China Sea	Dr. SHULING LI
	3882 Controls on margin development during the breakup of East Gondwana	Mr. Joshua Davis
	826 Tectonic evolution of the Ulleung back-arc Basin, East Sea (Sea of Japan), Korea	Dr. Jaehong Ko
	1646 Structural evolution of the Gamtoos Basin, based on 2D seismic data	Mrs. Anthea Davids
	3299 Cenozoic tectonic jumping in the Western Pacific Continental Margin	Dr. Yanhui Suo
	1249 A tectonostratigraphic comparison of the eastern and western parts of the Gamtoos Basin, South Africa	Ms. Chantell Van Bloemenstein
	3732 Anisotropy of Magnetic Susceptibility, Palaeomagnetism and Rock magnetic studies on mafic intrusives from Kaddam Fault: Implications to Godavari rift related magmatism	Dr Dhananjay Meshram
	4904 Geological and geophysical integration in the identification of structural features and crustal limits on onshore and offshore portions of the south of Santos Basin, Brazil.	Mr. Henrique Bruno
	5020 Magmatic segments abandoned during continental breakup – insights into the formation of seaward dipping reflectors	Mr. James Norcliffe

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08:00	08:15	2904 Rheological implications of sediment transport for continental rifting and its impact in margin geometry and major unconformities	Mr. Miguel Andres-Martinez
08:15	08:30	2906 Passive margin asymmetry and its polarity in the presence of a craton	Mr. Miguel Andres-Martinez
08:30	08:45	4189 How do SDRs form and what does it tell us about volcanic margin evolution?	Dr. Douglas Paton
08:45	09:00	4820 Thermal evolution of early passive margins formation and consequences on their geophysical signature	Prof. Romain Bousquet
09:00	09:15	5232 Plate flexure and the development of depositional cycles in sedimentary basins	Dr. James Moore
09:15	09:30	199 Tectonic and sedimentary evolution of the Babouri-Figuil and Mayo Oulo Cretaceous rift basins (Northern Cameroon	Mr. Elie FOSSO MENKEM

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10:30	10:45	966 Rift architecture and evolution of the Eastern Continental Margin of India – role of the intra-continental shear zones on style of rifting of the Indian subcontinent	Dr. KS Krishna
10:45	11:00	3783 Revised model of the break-up and early sea-floor spreading between India and Antarctica	Dr. German Leitchenkov
11:00	11:15	2455 Similarities and differences between tectonic development of Pangea continental margin salt basins	Dr. Ian Norton
11:15	11:30	2461 Pan-African collision, slab break-off and Rheic Ocean opening imprinted in Pre-Variscan complexes of the Western Tatra Mountains, Western Carpathians (Poland/Slovakia)	Dr. hab. Aleksandra Gawęda
11:30	11:45	2900 Tectonostratigraphic evolution of an inverted rift basin inferred from multi-scale aeromagnetic and gravity datasets: a case study from the Ghanzi Ridge portion of the Kalahari Copperbelt, Botswana	Mr. Wesley Hall

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14:00	14:15	4644	Cenozoic deformation assessed through sedimentological benchmarks: constraints on dynamic topography and neotectonics in Western Australia	Dr. Milo Barham
14:15	14:30	2839	Crust-mantle coupling in foreland basin systems	Prof. Frederic Mouthereau
14:30	14:45	523	Recent activity in the Eyvanekey foreland basin , Southern Alborz, Iran	Dr. Soheila Bouzari
14:45	15:00	2787	Contrasting development of foreland basins in western Taiwan: Its implications of kinematics of orogenic evolution	Dr. Kenn-Ming Yang
15:00	15:15	4468	New geo-thermochronological constraints on the deformation history of the SW margin of Gondwana: linking the Terra Australis fold belts and foreland basins of South America and southern Africa	Dr. Eric Tohver

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16:00	16:30	5209 Plate flexure and the evolution of foreland basins	Dr. Anthony Watts	Keynote
16:30	16:45	5110 Tracking Basin Inversion in the RetroArc Foreland Basin: Integrated Provenance Studies in the Cacheuta Basin, South-Central Andes	Dr. J. Brian Mahoney	
16:45	17:00	3188 Tectono-stratigraphic evolution of the northeastern Pyrenean Foreland Basin	Dr. Frédéric Christophoul	
17:00	17:15	2859 Inversion of a salt-rich hyper-extended rift: geometry and evolution of the retrowedge foreland system of the French Pyrenees. Results of the PYRAMID project.	Dr. Mary Ford	
17:15	17:30	5036 The role of extensional inheritance and surface processes on mountain belt evolution	Prof. Ritske S. Huismans	
17:30	17:45	1682 Superimposition and structural reactivation of foreland basins in the mountain-front region, United Arab Emirates	Dr. Tim Pharaoh	

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	3721	The tectono-stratigraphic evolution of the Cádiz Basin (Gulf of Cádiz, Spain) in the Neogene and Quaternary: Its theoretical implications on hydrocarbon prospectivity	Dr. F. Javier Hernández-Molina
	4823	Soft sedimentary deformation structures from the Kaladgi Basin, Dharwar craton, India: Reflections on tectonic evolution of a Proterozoic cratonic basin.	Dr. Vivek Kale
	5559	The Permo-Triassic sedimentological record in the Pai-Khoi area, Arctic Russia: a framework for a better understanding of the evolution and timing of deformation in the Pai-Khoi fold-and-thrust belt	Dr. Gloria Heilbronn
	5151	Accommodation of Penetrative Strain during Deformation above a Ductile Decollement	Ms. Bailey Lathrop



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08:00	08:15	1446	Active coastal thrusting and folding, and uplift rate of the Sahel Anticline and Zemmouri earthquake area (Tell Atlas, Algeria)	Dr. Said Maouche
08:15	08:30	3261	Coastal large earthquakes and evidence for paleotsunami deposits along the Mediterranean coast of Egypt	Prof. Mustapha Meghraoui
08:30	08:45	361	Marginal marine depositional environment of Mahadek Formation: Cretaceous palaeogeography of the southern part of the Meghalaya plateau	Mr. Apoorve Bhardwaj
08:45	09:00	1174	High Resolution Magnetic Survey of the Marmaris Bay, SW Turkey	Mr. Denizhan Vardar
09:00	09:15	5119	Coastal tectonics of west Luzon, Philippines: Clues from thorium-230 ages of variably uplifted coral terraces	Ms. Kathrine Maxwell
09:15	09:30	4646	Early Cambrian sea-level changes: A Scandinavian perspective	Dr. Arne Thorshøj Nielsen

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10:30	11:00	9 Gravity Tectonics in Western African Passive Continental Margin in Drift Stage and its Implication in Petroleum Exploration	Prof. Shuping Chen	Keynote
11:00	11:15	2846 Petrophysical properties of Eocene carbonates in the northern Arabian platform: Insights into depositional environment and diagenetic processes	Dr. Mimonitu Opuwari	
11:15	11:30	2062 The southern Brazilian and West African margins: drilling results and exploratory perspectives	Dr. Webster Mohriak	
11:30	11:45	2995 Petroleum Systems of West Africa Salt Basins: A Review	Mr. Philippe Montagnier	
11:45	12:00	3096 Integrated approach to salt basin exploration	Mr. Bjørn Albert Rasmussen	

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14:00	14:15	5043 Orogenic structural inheritance and rifted passive margin formation	Prof. Ritske S. Huismans
14:15	14:30	3705 Kinematics and Tectonic Significance of the Skeleton Coast Dyke Swarm, Kaoko Belt, North-west Namibia	Mr. Michael McMaster
14:30	14:45	4924 Mantle density inhomogeneities beneath Bay of Bengal	Dr. Chandra Prakash Dubey Dr. Virendra Mani Tiwari
14:45	15:00	5023 Rifted Continental Margins: The Case for Depth-Dependent Extension	Prof. Ritske S. Huismans
15:00	15:15	5134 Correlations between the basement geology of Florianópolis to Vitoria coastline (Brazil) and Swakopmund (Namibia) to Luanda (Angola) coastline	Dr. Julio Almeida
15:15	15:30	5171 Parnaíba Basin: one of the great interior synclises of Western Gondwana	Prof Renata S. Schmitt

Times	Paper # Title	Speaker
	5097 U-Pb age in zircon (LA-ICP-MS) of alkaline rocks from Marapicu massif (RJ), Brazil.	Dr. Mauro Geraldес
	4253 Small-scale petroliferous basins in China: Characteristics of type and hydrocarbon occurrence	Prof. Chiyang Liu

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08:00	08:15	3688	The Lake Albert Rift (Uganda, East African Rift System): Deformation, basin and relief evolution since 17 Ma	Brendan Simon
08:15	08:30	4221	New active-source seismic imaging of the Malawi (Nyasa) Rift from the SEGMeNT project	Dr. Donna Shillington
08:30	08:45	4212	What's melt got to do with it? Constraints on the thermomechanical state of the upper mantle beneath two end member localities in the East African Rift System using seismic observables	Ms. Natalie Accardo
08:45	09:00	4648	Tracking the Onset of Plume Volcanism in the Southern East African Rift	Mr. Gary Mesko
09:00	09:15	1820	Modeling along-axis variations in fault architecture in the Main Ethiopian Rift: implications for Nubia-Somalia kinematics.	Mr. Asfaw Erbello

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10:30	10:45	5189 Tectonic evolution of sedimentary basins of northern Somalia	Dr. Mohammed Ali
10:45	11:00	4681 Low deformation rate in an « incipient rifting zone »: the Okavango Basin	Mrs. Anne-Morwenn Pastier
11:00	11:15	133 Najd Wrench Fault System and Dead Sea Shear Zone in the Arabian Plate: Like Father Like Son	Dr. Ali T. Al-Mishwat
11:15	11:30	5355 Detrital zircon provenances and geodynamic evolution of the Congo Basin	Dr. Bastien Linol
11:30	11:45	5471 The subsurface structure of the Congo basin: Gravity signatures, isostatic anomaly and seismic constraints	Mr. Chengdong Liu
11:45	12:00	2091 Late Cretaceous-Cenozoic intraplate deformation in Congo basin: effect of the South-Atlantic opening?	Dr. Damien Delvaux

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	2574 Characteristics of fault system in Enping sag	Mr. Yiming Liu
	2732 Microfabrics and geochemical characteristics of Paleozoic cherts and their geological implications from southern Qinling orogen, China	Professor Yongzhang Zhou
	1221 Unravelling the geology beneath the Meso-Cenozoic sedimentary cover of the intracratonic Paris Basin - Part 2: geological mapping of the buried Variscan basement combining aeromagnetic, gravity and petrophysical data	Dr. Laurent Beccalletto
	2743 The Kenya Rift revisited: new insights into the strength of the lithosphere through data-driven 3D gravity and thermal modelling	Dr. Magdalena Scheck-Wenderoth
	2559 The differential evolution of buried hills in Liaodong Bay and analysis on their reservoir forming conditions	Dr. Chen Zhang
	3458 The Pre-Silurian Riachão basin, a key insight into the evolution of the Parnaíba cratonic basin, NE Brazil.	Ms. AMANDA PORTO
	5600 Unravelling the geology beneath the Meso-Cenozoic sedimentary cover of the intracratonic Paris Basin - Part 3: using seismic data to decipher the structural evolution and sedimentary record of the Stephano-Permian basins	Dr. Laurent Beccalletto

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14:00	14:15	5218	An integrated geological and geophysical study of the Parnaíba cratonic basin, North-East Brazil	Prof. Anthony Brian Watts
14:15	14:30	5599	Unravelling the geology beneath the Meso-Cenozoic sedimentary cover of the intracratonic Paris Basin - Part 1: new insights from seismic and potential field methods	Dr. Laurent Beccaletto
14:30	14:45	5496	An Integrated analysis of a Ployphase IntraCONTinental Sag (ICONS) Basin: the Mekelle Sedimentary Basin in Ethiopia.	Dr. Bastien Linol
15:00	15:15	2847	Initiation of Tarim basin in the northwest of China	Dr. Bizhu He Dr Cunli Jiao Prof. Taizhu Huang Prof. Zhiqin Xu
15:15	15:30	3707	New look at the boundary of Precambrian and Palaeozoic Europe – recent deep seismic data from the SW margin of the East European Craton in Poland	Prof. Piotr Krzywiec