MONDAY, 5.10.2015

	Max Kade Audi 1.200 seats	Hall A 350 seats	Hall B 220 seats	Hall C 300 seats	Hall D 250 seats	Senatssaal 60 seats	ZG 1 30 seats	RW 1 50 seats	RW 2 70 seats
08:00	**Registration**								
09:00- 10:30	**A1-01 Monitoring Plate Boundary Syst. ... |** *chair: B. Schurr, F. Tilmann, A. Rietbrock*	**A2-02 Continental breakup & passive margin evol. ... |** *chair: P. Kukla, S. Kollenz, U. Glasmacher*	**A6-05 Quaternary Environ. Changes & Sediment Dyn. ... |** *chair: M. Böse, F. Preusser*	**B2-01 Marine ore deposits |** *chair: U. Schwarz-Schampera, T. Kuhn, S. Petersen*	**A6-02 The Sediment Factory... |** *chair: K. Cook, P. Ballato , H. Wittmann, H. von Eynatten, D. Scherler, M. Giuditta Fellin*	**A7-01 Geomaterials as indicators for Earth's light... |** *chair: B. Wunder, E. Berryman, K.-D. Grevel, A. Ertl*	**A5-01 Palaeoenvironmental, sedimentological... |** *chair: J. Müller, R. Bussert*	**A3-01 Meteorites and Early Planetary Evol. ... |** *chair: T. Kruijer, V. Laurenz*	**B4-01 Topography, Climate and Human Habitat |** *chair: J. Kropp*
09:00	Stephan V. Sobolev; Iskander Muldashev **Modelling Seismic Cycle of a Megathrust Earthquake across the Scales**	***invited:*** François Roure **The Wilson cycle revisited**	***Keynote:*** Philipp Gibbard **The Anthropocene; a formal stratigraphical unit, an informal designation, or an interval of Holocene time?**	Peter E. Halbach, Andrea Koschinsky, Andreas Jahn **The influence of water depth on concentration and fractionation of Rare Earth Elements in marine ferromanganese crusts**	John Armitage **Landscape response due to sediment transport and bed-rock detachment**	***Keynote:*** Horst R. Marschall, Adam R. Sarafian **Apatite as a recorder of crustal and planetary evolution**	J. Müller, R. Bussert, N. Klein, K. Allah Salih, D. Evans | **Late Cretaceous vertebrate faunas from northeastern Gondwana: regional endemism, vicariance, and continental break-up**	Gregory A. Brennecka; Lars E. Borg; Meenakshi Wadhwa **Isotopic Fingerprints of Early Solar System Events**	***Keynote:*** Martin Medina-Elizalde **Pervasive drought during the fall of the Classic Maya Civilization: are we better prepared?**
09:15	P. Victor, B. Schurr, M. Sobiesiak, G. Gonzalez, O. Oncken | **Triggering and remote triggering of the Atacama Fault System monitored with the IPOC Creepmeter Array (N-Chile)**	***Keynote:*** Webster Mohriak **Continental breakup and passive margin evolution based on plate tectonic concepts developed from the South Atlantic and the Red Sea**		Andrea Koschinsky; James R. Hein; Katja Schmidt; Lydia Somers **Seamount Phosphorites as Potential Resources for Rare Earth Elements and Fluoride**	Hella Wittmann; Friedhelm von Blanckenburg **Dampened Holocene sediment fluxes across the lowlands of the Amazon and Ganga basins**		Annika Brüske; Stephan Schuth; Lingang Xu; Marie C. Arnold; Nadja Pierau; Stefan Weyer **Stable vanadium isotopes – a potential new proxy for paleo-oceanography**	C. Burkhardt; L.E. Borg; G.A. Brennecka; Q. Shollenberger; N. Dauphas; T. Kleine | **The Sm and Nd isotopic composition of chondrites and their bearing on the composition and evolution of the Earth**	
09:30	***Keynote:*** Jean-Philippe Avouac **Seismic and Aseismic Fault Slip on Megathrust, application to the 2015 Gorkha earthquake, Nepal**		W.-C. Dullo, S. Flögel, M. Boxleitner, J. Raddaatz, C. Gudopp, A. Rüggeberg, V. Liebetrau | **Cold-Water Coral occurrences on the Amorican Shelf**	S. Petersen, M. Hannington, T. Monecke, J. Jamieson | **The Global Resource Potential of Seafloor Massive Sulfides in Various Tectonic Settings**	***Keynote:*** Matthias Hinderer **Control on large-scale sediment fluxes**	Kusebauch C., John T., Whitehouse M. J. **Using apatite as a fluid probe for halogens to decipher fluid-rock interaction**	Veit Höfler; Christine Wessollek; Pierre Karrasch **Modelling prehistoric terrain Models using LiDAR-data - a geomorphological approach**	G. Budde; T. Kleine, T. S. Kruijer; K. Metzler **Hf-W chronometry of Allende chondrules and matrix**	Martin Wattenbach, Richard Redweik, Stefan Luedtke, Ben Kuster **Uncertainties in city greenhouse gas inventories**
09:45		Hans-Peter Bunge, Lorenzo Colli | **Spreading changes in the South Atlantic region: observations and geodynamic interpretations**	J. Raddatz; V. Liebetrau; J. Trotter; S. Flögel; A. Rüggeberg; A. Eisenhauer; Wolf-Christian Dullo; S. Voigt; M. McCulloch | **The Holocene cold-water coral reef phenomena off Norway: insights from a multi proxy approach**	Hannah Grant; Thomas Monecke; Sven Petersen; Mark Hannington **Critical Metal Potential of Seafloor Massive Sulphide Deposits**		Andreas Ertl, Hans-Peter Meyer **Pneumatolytic overgrowth of fluor-schorl on earlier formed schorl from Zschorlau, Erzgebirge, Germany**	Elahe Rahimi; Ali Mahfroozi **Study of coastline changes in south Caspian sea by geochronology of ancient sites during Holocene (Iran)**	D. C. Hezel; P. Friend; D. Mucerschi; H. Palme **Extensive Melt-Gas interaction between chondrules and surrounding protoplanetary disk**	Markus Böttle, S. Kriewald, L. Costa, D. Rybski, J. Kropp **Coastal Floods Threatening European Cities: a Large Scale Damage Function Assessment**
10:00	D.W. Scholl, S.H. Kirby, and R. von Huene | **Attributes of Subducting Lower Plate Relief that Hinder (Through Roughness) and Promote (Through Smoothness) the Rupturing of High-Magnitude (>Mw8.0) Megathrust Earthquakes**	Franz Neubauer **Middle and lower passive margin crust preserved in mountain belts and its correlation with upper crust: significance for rifting models and tectonic reconstructions**	T. Haberzettl, M. Wündsch, T. Kasper, H. Cawthra, G. Daut, P. Frenzel, A. Hahn, K. Kirsten, S. Meschner, L. Quick, M. Zabel, J. Baade, M. Meadows, R. Mäusbacher **The RAIN project and results from the terrestrial sites in South Africa**	M. Anderson; M.D. Hannington; T.F. McConachy **Massive sulfide accumulation along a submarine scoria cone row at the Tinakula Deposit, New Hebrides Arc, Solomon Islands**	T. Schildgen, R. Robinson, S. Savi, B. Bookhagen, S. Tofelde, D. Scherler, M. Strecker | **Landscape response to millennial-scale climate forcing from fluvial fill terraces: Humahuaca Basin, NW Argentina**	M. Kutzschbach, B. Wunder, R. Trumbull, A. Meixner, D. Rhede, W. Heinrich, G. Franz | **The effect of tetrahedral B on the B isotope fractionation between tourmaline and fluid**	Robert Bussert; Ali A.M. Eisawi **Late Cretaceous tropical coastal wetlands at the southern shoreline of the Tethys in central Sudan**	A. Harbott, Y. Kadlag and H. Becker **Chromium isotope heterogeneity in components and bulk rocks of carbonaceous chondrites.**	Steven Zierold, Lars Angler, Sven Dörfer, Lothar Viereck **Mapping of the background-gamma-dose-rate in the urban area Erfurt, Thuringia – Germany**
10:15	Stefanie Rieger, Nico Adam, Anke M. Friedrich **The vertical surface-deformation pattern of Crete (Greece) from Persistent Scatterer Interferometry**	S. Brune, S. Williams, N. Butterworth, D. Müller | **Abrupt plate accelerations controlled by rift strength: A global analysis of Pangea fragmentation**	M. Wündsch; T. Haberzettl; K. L. Kirsten; S. Meschner; P. Frenzel; J. Baade; G. Daut; R. Mäusbacher; T. Kasper; L. J. Quick; M. E. Meadows; M. Zabel | **Sea level and climate change at the southern Cape coast, South Africa, as inferred from coastal lake sediments from Groenvlei**	J. Jamieson; S. Petersen; M. Hannington **Exploration and Resource Potential of the Semyenov Vent Fields, on the 13°30′ Oceanic Core Complex, Mid-Atlantic Ridge**	Bodo Bookhagen; Manfred R. Strecker **Evolution and erosional dynamics of intermontane basins on the Puna Plateau, NW Argentina**	E. Berryman; B. Wunder; A. Ertl; M. Koch-Müller; W. Heinrich; G. Franz | **Linking crystal structure to composition in tourmaline: A multi-method investigation of synthetic dravite, maruyamaite, magnesio-foitite, and oxy-uvite**		Moritz I. F. Barth; Dennis Harries; Falko Langenhorst **Polycrystalline Sulfide-Assemblages in Acfer 094 – Clues to Heterogeneous Nebular Conditions of Sulfide and Oxide Formation.**	Ramana Venkata Gudipudi, Till Fluschnik, Anselmo García Cantú Ros **City Density and CO_2 Efficiency**

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10:30	**Coffee break | poster session | exhibition**								
11:00-12:30	**A1-02 Fluids in subduction zones... |** *chairs: I. van Dinther, M. Konrad-Schmolke*	**A2-02 Continental breakup & passive margin evol. ... cont. |** *chair: P. Kukla, S. Kollenz, U. Glasmacher*	**A6-05 Quaternary Environ. Changes... cont.|** *chair: M. Böse, Frank Preusser*	**B2-03 Scenarios for the Raw Material... |** *chair: F.-W. Wellmer, W. Jacoby, M. Schoell*	**A6-02 The Sediment Factory... cont. |** *chair: K. Cook, P. Ballato , H. Wittmann, H. von Eynatten, D. Scherler, M.G. Fellin*	**A7-02 Structure, dynamics and properties... |** *chair: M. Nowak; K.-U. Hess*	**A5-02 Major environmental changes... |** *chair: C. Korte, D. Korn, C. V. Ullmann*	**A3-01 Meteorites and Early Planetary Evol. ... cont. |** *chair: T. Kruijer, V. Laurenz*	**B4-03 Transforming the Geo-Biosphere by Humanity... |** *chair: B. Merz*
11:00	W. Bloch, J. Kummerow, T. John, P. Wigger, S. Shapiro **Evidence for Metamorphic Slab Dehydration in the Central Andean Subduction Zone, Derived from Volumetric Vp/Vs Measurements And Thermodynamical Modeling**	M. Kosters; D. van Hinsbergen; L. Boschman; G. Schepers; P. Bijl; W. Spakman **Opening of the Drake Passage: due to Mantle Anchoring and Absolute Plate Motions?**	E. Gischler, A. Isaack, H. Hudson, F. Anselmetti, M. Humblet, J. C. Braga, A. Eisenhauer, G. Camoin | **Late Quaternary reef response to sea-level rise and subsidence in Bora Bora, Society Islands, South Pacific (French Polynesia)**	***Keynote:*** Lawrence Cathles **The Earth has the energy and mineral resources to indefinitely sustain 10.5 bn at an EU standard in an environmentally acceptable way**	Sarah Schroeder; Richard Gloaguen **Progress in code development for calibration of tectonically coupled surface evolution**	***Keynote:*** Ilya Veksler **Silicate liquid immiscibility in magmatic systems**	***Keynote:*** Stephen P. Hesselbo **New Developments in understanding Jurassic Earth History**	M. Matthes; M. Fischer-Gödde; T.S. Kruijer; I. Leya; T. Kleine **Rapid cooling of the IIIAB iron meteorite parent body inferred from Pd-Ag systematics**	***Keynote:*** Giuliano Di Baldassarre **Socio-hydrology: capturing the interplay between societies and floods**
11:15	S. Angiboust, J. Kirsch, O. Oncken, J. Glodny, P. Monié, E. Rybacki | **Probing the transition between seismically coupled and decoupled segments along an ancient subduction interface**	***invited:*** François Guillocheau and the TopoAfrica working group **Passive margins of austral Africa: long term evolution, mantle dynamics, erosion and sedimentation**	A. Bernhardt, M. R. Strecker | **Propagation of paleoclimatic perturbations to turbidite systems, Chile convergent margin**		L. Stutenbecker, F. Schlunegger | **Geomorphological response of a landscape to long-term tectonic and glacial processes: the upper Rhône basin, Central Swiss Alps**			Zaicong Wang; Harry Becker **Magmatic fractionation of chalcophile elements on Earth and Mars**	
11:30	Achim Kopf, Michael Tryon, Simone Kasemann, Andre Hüpers **Deep-seated fluid ascent in mud volcanoes off Japan**	***invited:*** R. Brown, M. Wildman, R. Beucher | **The topographic evolution of southern Africa: what's all the fuss about and why are we still arguing about this?**	B. Diekmann, B. Biskaborn, O. Dirksen, V. Dirksen, U. Hoff, L. Nazarova, L. Pestryakova, D. Subetto, P. Tarasov **Limnogeological Records of late Quaternary Palaeoenvironments in eastern Siberia**	Wolfgang Jacoby **Limits of Earth**	C. von Hagke, E. Luijendijk, R. Ondrack, J. Lindow | **Lack of correlation between relief and exhumation in the North Alpine Foreland Basin revealed by thermochronometry and a new thermal model**	S. Wiesmaier; D. Morgavi; C. Renggli; D. Perugini; C. De Campos; K.-U. Hess; W. Ertel-Ingrisch; Y. Lavallée; D. B. Dingwell **Magma mixing enhanced by bubble segregation**	Clemens V. Ullmann; Robert Frei: Christoph Korte, Stephen P. Hesselbo **Reading the Record: Understanding heterogeneity in macrofossil geochemistry**	Olivier Namur; Bernard Charlier; Francois Holtz **Sulfur solubility in mafic silicate melts at reducing conditions: Implications for Mercury's differentiation**	G. Lischeid, T. Hohenbrink, C. Lehr, S. Böttcher, J. Steidl, C. Merz, U. Schindler, R. Dannowski, T. Kalettka | **Multiple causes, multiple effects: Forensic hydrology approaches to elucidate complex relations between drivers and effects in landscape hydrology and biogeochemistry**
11:45	Fatma Gülmez, Dejan Prelevic, Ş. Can Genç **Can slab-rollback trigger ultrapotassic volcanism in an active arc setting: an example from Northern Anatolia, Turkey**	E. Duesterhoeft; H. Wichura; R. Bousquet; R. Oberhänsli **Pre-rift topography of the East-African Plateau induced by metamorphic density changes in the lithosphere**	F. Kober, K. Hippe, M. Christl, L. Wacker, W. Winkler, R. Lampe | **Evaluating the in-situ produced cosmogenic nuclide inventory of longshore transported sand, Fischland-Darss-Zingst peninsula, southern Baltic Sea**	Friedrich-W. Wellmer, Volker Steinbach **Is a Road to Sustainable Use of Non-Renewable Mineral Raw Materials possible?**	Martin Elsner **Structure and Stratigraphy of the Upper Freshwater Molasse of the North Alpine Foreland Basin in Western Bavaria**	J. Wagner; S. Jahn **Y and La compatibility in silicate melts and its dependence on melt structure: A first principles simulation study**	Leonid Anisimov **Comparative Hydrogeochemistry in Global Perspective**	Thorsten Kleine; Thomas Kruijer; Mario Fischer-Gödde **Tungsten isotopes and the origin of the Moon**	C. Conrad, F. Löw, J. P.A. Lamers | **Satellite remote sensing-based indicators for an improved understanding of irrigation water use, and agricultural area dynamics in the Aral Sea basin**
12:00	T. John, O. Plümper, H. Vrijmoed, Y. Podladchikov, M. Scambelluri | **From porosity formation to permeability generation and the initiation of flow in dehydrating rocks: deciphering fluid flow mechanisms in subduction zones**	Jana Schierjott; Francesco Maccaferri, Valerio Acocella, Eleonora Rivalta **A numerical and analogue study of dike ascent in asymmetric continental rift zones**	Michael Kenzler; Sumiko Tsukamoto;Stefan Meng; Manfred Frechen; Heiko Hüneke **New results of OSL dating of Weichselian sediments from the German Baltic Sea coast**		Alexander Bassis; Matthias Hinderer; Guido Meinhold **Provenance of Saudi Arabian Palaeozoic sandstones using whole rock and single grain geochemistry**	Maria Stuff; Jan A. Schuessler; Max Wilke **Experimental constraints on Fe isotope fractionation between silicate and carbonate immiscible melts**	S. Huck; U. Heimhofer **Rudist bivalve versus bulk carbonate chemostrati-graphy: towards an improved chronostrati-graphy of Urgonian carbonate platform demise in the run-up to the Oceanic Anoxic Event 1a**	Peter Sprung, Raúl O.C. Fonseca, Maxwell M. Thiemens, Carsten Münker **The evolution of the infant Moon**	C. Bismuth, H.-G. Frede, H. Kreutzmann, O. Bens, R.-F. Hüttl | **Major Water Engineering Projects as key driver for the transformation of landscapes: An analysis of case studies from the Fergana Valley and the Lower Jordan Valley**
12:15	S. Ferrero, P. J. O´Brien, L. Hecht, M. Ziemann, B. Wunder **Primary carbonate-rich melt in stromatic migmatites of the Bohemian Massif as result of partial melting of metasediments in the middle-lower crust**	E.J. Rindraharisaona; F. Tilmann; X. Yuan; M. Reiss; G. Ruempker **Lithosphere structure in the southern Madagascar from receiver function and ambient noise surface wave dispersion analysis**	J. Winsemann, J. Lang, J. Roskosch, U. Polom, U. Böhner, C. Brandes, C. Glotzbach, M. Frechen **Terrace styles and timing of fluvial terrace formation in the Weser and Leine valleys, northern Germany**	Jens Gutzmer **EIT Raw Materials - perspectives for research on raw materials in Europe**	Alexandra Hellwig; Silke Voigt; Andreas Mulch; Axel Gerdes; Thomas Voigt **Paleoclimatic implications from Cenozoic terrestrial calcrete formation in the Ili Basin, SE Kazakhstan**	J. Pohlenz, S. Pascarelli, O. Mathon, S. Belin, A. Shiryaev, O. Safonov, A. Veligzhanin, V. Murzin, T. Irifune; M. Wilke **Structural of Silicate-Carbonate Melts: An EXAFS Study on Y and Sr Properties**	K. Frisch; S. Voigt; S. Batenburg; S. Nigmatova **Tectonic and climatic forcing of lake level and salinity in the Miocene lacustrine succession of the Aktau Hills, southeastern Kazakhstan, Central Asia**	Philipp Gleißner, Harry Becker **Highly siderophile and chalcophile elements in lunar impact melt rocks: evidence for mixing of impactor compositions**	Abdullaev Iskandar **Transformastions in water sector in Central Asia: from hydraulic mission to socio-political control**
12:30	**Lunch break | poster session | exhibition**								
14:00	**Opening Ceremony: Greetings**								
15:00	**Plenary Lecture: *Dan McKenzie* (University of Cambridge, GB): The lithospheric structure of Pangea and central Asia: The rules of craton assembly**								
16:00	**Poster Social for Posters of the following Sessions: A1-01, A1-02, A1-05, A2-01/-05, A2-02, A3-01, A3-02, A5-01, A5-02, A6-01, A6-02, A6-05, A7-01, A7-02, B2-01, B2-02, B2-03, B2-02, B4-01/-02, B4-03, B5-01, B6-01, C5, C6**								
17:45	Awards: Serge-von-Bubnoff-Medaille and Gustav-Steinmann-Medaille								
18:00	**Plenary Lecture: Maureen Raymo (Lamont Doherty Earth Observatory, USA): Sea Level During Past Warm Periods – Rethinking the Bathtub Model**								
19:00			**Mitgliedervers. der DMG**						

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08:00	**Registration**								
08:30	**A1-05 Motion and time in orogenesis**	*chair: J. Glodny, A. Gerdes, A. Zeh*	**B2-02 Terrestrial ore deposits**	*chair: A. Gilg, V. Steinbach*	**A2-01 Plate tectonics...**	*chair: M. Handy, A. Friedrich*	**A6-01 Tectonic and climatic imprints...**	*chair: T. Schildgen, M. Dühnforth, B. Bookhagen, C. Spiegel*	**A4-03 Properties of Earth Materials...**	*chair: H. Marquardt, R. Farla, P. Cordier*	**B6-01 Cements, Ceramics & glasses**	*chair: B. Meng, H. Behrens*	**C6 3D geology and geoinformation**	*chair: R. Lehné, H. Schaeben*	**B5-01 Num. Simulation for geol. Undergr. ...**	*chair: M. Cacace, M. Kühn, F. Wellmann*	**A3-02 Impact Cratering in the Planetary System**	*chair: K. Wünnemann, C. Hamann*
08:30	Armin Zeh; Allan H. Wilson; Maria Ovtcharova; Urs Schaltegger **Zircons of the Bushveld Complex – When and How did they form?**	Philipp Weis **The physical hydrology of porphyry copper systems**	M. Bohnhoff, P. Martínez-Garzón; F. Bulut; E. Stierle; Y. Ben-Zion | **Maximum earthquake magnitudes in relation to fault zone evolution: The case of the North Anatolian Fault Zone**	***Keynote:*** Peter van der Beek **Tectonics, Climate, Relief and Erosion: disentangling driving forces within a complex system**	***Keynote:*** Ulrich Faul, Ian Jackson, Emmanuel David, Christopher Cline and Andrew Berry **Experimental constraints on seismic properties and rheology of the upper mantle: Effects of water and melt**	***Keynote:*** Georges Calas, Laurence Galoisy, Laurent Cormier & Gérald Lelong **Linking optical and structural properties of glasses**	Humaad Ghani, Ehtisham Javed, Irum **3D Structural modelling of Central Salt Range, Pakistan**	J. Freymark; J. Sippel; M. Scheck-Wenderoth; K. Bär; M. Stiller; J.-G. Fritsche; M. Kracht **Structure and thermal field of the Upper Rhine Graben – a lithospheric-scale 3D model**	***Keynote:*** Alex Deutsch **Impact Processes: From Alfred Wegener to Chelyabinsk and beyond**
08:45	F. Boekhout; J. Berndt; A, Gerdes; H. Bahlburg **Geological bias in the provenance record: an example of Rodinia margin granites from the Seychelles**	Marina Lazarov; Aleksandar Pačevski, Stefan Weyer **Unravelling processes of ore formation in porphyry Cu deposit with chalcopyrite Cu isotope compositions**	Eline Le Breton, Mark R. Handy, Kamil Ustaszewski **Kinematic reconstructions and possible driving forces of the Adriatic microplate**				M. Nolde, M. Schwanebeck, E. Biniyaz, R. Duttmann | **Subsurface Spatial Planning: Development of a 3-D online tool for the evaluation of potential underground energy storage sites**	Elco Luijendijk; Mark Person **Quantifying permeability and modelling fluid and heat flow in an evolving sedimentary basin**	
09:00	N. Koglin, G. Franz, J. Glodny, U. Schüssler, A. Zeh, A. Gerdes, H. Brätz **Münchberg metamorphic complex: nature and ages of the nappe protoliths**	Moritz Albrecht; Insa Theresa Derrey; Ingo Horn; Axel Müller; Francois Holtz; Stefan Weyer **UV-fs-LA-ICP-MS analyses of fluid inclusions from tin ore deposits**	W. Spakman, M. Chertova, S. Mohammadi, A. van den Berg, C. Thieulot, D. van Hinsbergen **Slab dragging and the recent geodynamic evolution of the Africa-Iberia plate boundary region**	J. D. Jansen, A. T. Codilean, D. L. Egholm, M. F. Knudsen, O. Korup, A. Stroeven, B. Goodfellow, J. L. Andersen, S. V. Ugelvig, J. Klein **The cold-climate origins of Scandinavian mountain plateaux**	H. Idrissi, C. Bollinger, P. Cordier, F. Boioli **In situ deformation of olivine in the transmission electron microscope: from dislocation velocity measurements to stress-strain curves**	Dawid Murawski; Sebastian Roß; Harald Behrens; Martin Lerch **Ionic mobility in lithium silicate glass powder during compaction**	Stefan Rautenberg, Thomas Schmitz, Rouwen Lehné, Ivo Sibul **Challenges and chances of geological 3D-modelling – a case study for the northeastern part of Estonia**	J. Niederau; A. Ebigbo; G. Marquart; I. Dini; M. Thorwart; W. Rabbel; R. Pechnig; R. Bertani; C. Clauser | **How minor changes in a geological model can affect simulation results: An example of a geothermal reservoir in Tuscany, Italy**	Meng-Hua Zhu, Kai Wünnemann, Ross W. K. Potter **Numerical Modeling of the Ejecta Distribution and Crater Formation of the Orientale Basin on the Moon**
09:15	T. Reischmann, A. Gerdes, H.-G. Fritsche, H.-D. Nesbor **Late Devonian subduction and ocean closure: Evidence from zircon ages from the northern Böllsteiner Odenwald**	M. Duchoslav; M.A.W. Marks; C. McCammon; H. Marschall; T. Wenzel; G. Markl | **Major-minor and trace element variations in tourmaline as monitors for magmatic differentiation, fluid un-mixing and associated ore precipitation**	Kosuke Ueda, Dave May, Taras Gerya, Sean Willett **Sensitivity of active continental margin evolution to different surface process models**	P. Ballato, A. Landgraf, T. F. Schildgen, D. F. Stockli, M. Fox, M.R. Ghassemi, E. Kirby, M. Strecker | **The growth of a mountain belt forced by base-level fall: Tectonics and surface processes during the evolution of the Alborz Mountains, N Iran**	R. Farla; A. Rosenthal; C. Bollinger; S. Petitgirard; T. Kawazoe; J. Guignard; D. Frost **In situ deformation of eclogite and depleted peridotite compositions at high pressure and temperature**	S. Reinsch, C. Roessler, U. Bauer, R. Müller, J. Deubener, H. Behrens **Water, the other network modifier in borate glasses**	Bianca Wagner; Bernd Leiss **3D-Mapping of sedimentary and tectonic structures applying "Terrestrial LIDAR" and "Structure from Motion (SfM)" in view of developing multi-scale digital geologic models**	Hui Wang; J. Florian Wellmann **Pattern-based analysis of subsurface heterogeneities and its application to generate spatial property distributions for process simulations**	S. Sturm; T. Krüger; T. Kenkmann **Structural rim uplift and ejecta thickness measurements of martian complex impact craters: Rim formation of complex impact craters**
09:30	S.O. Martha; G. Zulauf; W. Dörr; P. Xypolias; R. Petschick; J. Schastok | **The Asterousia Crystalline Complex in the Aegean region: insights from structural analyses and U-Pb zircon dating on Anafi Island (Cyclades, Greece)**	***Keynote:*** Hartwig E. Frimmel **From early life to gold deposits**	Jonas Kley; Fabian Jähne-Klingberg, Alexander Malz, Frithjof Bense **Mesozoic intraplate structures in Germany: trying to understand the crucial details**	R. Dietmar Müller, Tristan Salles, Nicolas Flament, and Michael Gurnis **Continental inter-superswell travel and landscape evolution**	Herbert Wallner; Harro Schmeling **Induced stress in stiff lithosphere by melt emplacement**	Anna-Maria Welsch, Harald Behrens, Franziska Fritsche, Ingo Horn **Mobility of Lithium in borate glass networks**	Peter Wycisk; Lars Schimpf **How to communicate 3d geological models to public**	A. Hassanzadegan, M. Cacace; J. Sippel; M. Scheck-Wenderoth, M. Frick **Geological characterization and modeling of the Berlin sub-sedimentary basin**	R. Luther; A. Yener; K. Wünnemann **Production of climatically active gases during the Chicxulub impact event**
09:45	Andreas Gärtner, Michel Villeneuve, Ulf Linnemann, Nasrrddine Youbi, Axel Gerdes **The Adrar Souttouf Massif (Moroccan Sahara) - a key to the Avalonia and Meguma conundrum?**		Anke M. Friedrich, Simon Kübler, Manfred Strecker **Coseismic origin of transgranular gravel fractures in non-lithified deposits**	Edward R. Sobel; Alejandro Bande; Alexander Mikolaichuk; Euan Macaulay; Chen Jie **Oligocene - Miocene exhumation of the Tian Shan**	N. Biedermann; H.-J. Reichmann, S. Speziale; M. Koch-Müller; G. Heide **High-pressure phase transitions of strontianite**	V. Steinbauer; M. Herwegh; T. Bühler; R. Raso, J. Kaufmann, R. Zurbriggen **Understanding hail damage of External Thermal Insulation Composite System (ETICS)**	H. Budde; C. Hoselmann; R. Lehné; G. Radtke; H. Heggemann; A. Hoppe | **3D Modelling of the Quaternary and Tertiary units as a key for sustainable groundwater management in an urban area (Frankfurt, Germany)**	T. Kempka; B. Nakaten; M. De Lucia; F. Magri; N. Nakaten; C. Otto; M. Pohl; E. Tillner; M. Kühn **Flexible simulation framework to couple processes in complex 3D models for underground utilization assessment**	Julia Brugger; Georg Feulner **Climatic effects of the Chicxulub impact**

TUESDAY, 6.10.2015

	Max Kade Audi 1.200 seats	Hall A 350 seats	Hall B 220 seats	Hall C 300 seats	Hall D 250 seats	Senatssaal 60 seats	ZG 1 30 seats	RW 1 50 seats	RW 2 70 seats
10:00	**Coffee break | poster session | exhibition**								
10:30	**A1-05 Motion and time in orogenesis |** *chair: J. Glodny, A. Gerdes, A. Zeh*	**B2-02 Terrestrial ore deposits** / *chair: A. Gilg, V. Steinbach*	**A2-01 Plate tectonics.... |** *chair: D. Müller, D. Hindle*	**A6-01 Tectonic & climatic imprints...** / *chair: T. Schildgen, M. Dühnforth, B. Bookhagen, C. Spiegel*	**A4-03 Properties of Earth Material...** / *chair: H. Marquardt, R. Farla, P. Cordier*	**B6-01 Cements, Ceramics & glasses** / *chair: B. Meng, H. Behrens*	**C5 Probing & Monitoring the Earth by Sci. Drilling** / *chair: U. Röhl, M. Stipp, U. Harms*	**B5-01 Num. Simulation for geol. Undergr. ... |** *chair: M. Cacace, M. Kühn, F. Wellmann*	**A3-02 Impact Cratering in the Planetary System** / *chair: K. Wünnemann, C. Hamann*
10:30	K. Fassmer; G. Obermüller; T. Nagel; F. Kirst; N. Froitzheim; S. Sandmann; I. Miladinova; R. Fonseca; C. Münker **Coherent vs. non-coherent subduction of ophiolite complexes – new insights from the Zermatt-Saas Zone (ZSZ) in the Western Alps**	H.-J. Kümpel und R. Gaupp **Laudatio zu Prof. Wellmer**	Lydian M. Boschman; Douwe J.J. van Hinsbergen; Cedric Thieulot; Wim Spakman; Martha Kosters **How the largest plate on Earth originated in a point**	Andreas Mulch, C. Page Chamberlain, Katharina Methner, Jens Fiebig, Maud Meijers **Topography of mountain belts as a key element in the evolution of landscapes and life**	Sergio Speziale; Hanns-Peter Liermann, Giacomo Lo Nigro, Hauke Marquardt, Hans-Josef Reichmann **Compression of (Mg0.9Fe0.1)2SiO4 olivine at ambient temperature to lower mantle pressures**	Roland Pierkes, Matthias Böhm **Evaluation of Portland Cement Clinker with Optical Microscopy - Case Studies**	***Keynote:*** Chris Juhlin **Exploration of the Caledonian Mountain Belt in Scandinavia by Deep Drilling**	***Keynote:*** Guillaume Caumon **Accurate geological modeling for subsurface applications and the need for uncertainty assessment**	Anastasiia Dolgushina **The Kara impact structure: general overview and particular features**
10:45	Axel Gerdes **Dating shear zones, volcanism and ore mineralisation by insitu U-Pb small scale isochrones**	Volker Steinbach, Ulrich Schwarz-Schampera **Initiative „Research Assignments in the Field of Ore Deposit Research" – what has been achieved?**	Marco Maffione, Cedric Thieulot, Douwe van Hisnbergen, Antony Morris, Oliver Plümper, Wim Spakman **Subduction initiation at oceanic detachment faults and the origin of forearc ophiolites**	Alexander Rohrmann; Dirk Sachse; Andreas Mulch; Heiko Pingel; Ricardo Alonso; Manfred Strecker **Rapid hydrological response to central Andean Plateau uplift revealed by leaf wax stable isotopes**	Michael Riedel, Shoichi Yoshioka **Impact of olivine-spinel phase change kinetics on the deformation of the Mariana Slab**	Roland Pierkes **Automated quantitative XRD in the quality control of the cement production process**	G. Bohrmann; T. Pape; T. Himmler; P. Geprägs; J. Wei; N. Sultan; L. Ruffine; T. Marsset; S. Garziglia; B. Dennielou | **Gas hydrate dynamics of pockmarks at continental margins – Results from MeBo sea floor drilling offshore Nigeria**		M. Szokaluk, W. Szczuciński, R. Jagodziński, A. Muszyński, G. Rachlewicz, W. Włodarski, M. Pisarska-Jamroży, A. Duczmal-Czernikiewicz | **Distribution and properties of ejecta deposits in the region of Morasko meteorite impact craters (Poznań, Poland)**
11:00	Shuyun Cao, Franz Neubauer, Manfred Bernroider, Johann Genser, Gertrude Friedl, Junlai Liu **Low-grade retrogression of a high-temperature metamorphic core complex: Naxos, Cyclades, Greece**	E. Müller-Huber; K. Kühn; S. Schmidt; M. Maurer; F. Börner **Petrophysical, mineralogical, and geochemical investigations of a Li-Sn-W deposit – A contribution to develop a borehole probe for quantitative element determination in ores of natural deposits**	D.J.J. van Hinsbergen, K. Peters, M. Maffione, W. Spakman, C. Guilmette, C. Thieulot, O. Plümper, D. Gürer, F.M. Brouwer, E. Aldanmaz, N. Kaymakci | **Dynamics of intra-oceanic subduction initiation, part 2: supra-subduction zone ophiolite formation and metamorphic sole exhumation in context of absolute plate motions**	Andrea Madella; Romain Delunel; Laurence Audin; Sönke Szidat; Fritz Schlunegger **On the uplift anomaly of the Arica Bend, Western Central Andes**	Johannes Buchen; Hauke Marquardt; Takaaki Kawazoe; Alexander Kurnosov; Tiziana Boffa Ballaran **High-pressure single-crystal elasticity of wadsleyite: Constraints on seismic anisotropy in the transition zone**	Holger Kletti, Bernd Möser, Christiane Rößler **Electron backscatter diffraction (EBSD) - an additional technique for a more reliable estimation of alkali reactivity potential of rock aggregates in concretes**	A. Hüpers; S.A. Kasemann; A.J. Kopf; A. Meixner; T. Toki; R. Shinjo; C.G. Wheat; C-F. You **Boron isotope geochemistry of pore water fluids sampled across the active Nankai Trough subduction zone forearc**	Mauro Cacace, Guido Blöcher, Johannes Aichele, Norihiro Watanabe, Florian Wellman, Antoine Jacquey **Linking geology to numerical modelling: application for geothermal reservoir applications**	Malgorzata Bronikowska, Kai Wünnemann, Natasha Artemieva, Witold Szczucinski **Modeling the Morasko strewn field**
11:15	I. Miladinova; S. Sandmann; N. Froitzheim; T.J. Nagel; M. Janák; N. Georgiev; C. Münker; R.O.K. Fonseca **Late Cretaceous eclogite in the Eastern Rhodopes (Bulgaria): a link between the Rhodope Metamorphic Complex and the Stredna Gora volcanic arc**	Friedrich Lucassen, Wolfgang Pritzkow, Martin Rosner, Simone Kasemann **Nitrogen and Carbon elemental and isotope chemistry in guano deposits – Pacific margin of Northern Chile**	Franz Tessensohn. Karsten Piepjohn, Detlev Damaske, Solveig Estrada **The Case of the Arctic Wegener Fault.-Postulations and present state of knowledge.**	Robin Lacassin, Rolando Armijo, Aurélie Coudurier-Curveur, Daniel Carrizo **Evolution of Andean orogeny, feedbacks between tectonics and global climate**	K. Schulze, H. Marquardt, T. Kawazoe, M. Koch-Müller, A. Kurnosov, T. Boffa Ballaran **The effect of iron content and hydration on the high-pressure single-crystal elasticity of ringwoodite derived from an internally consistent approach**	E. Rigo; K. Unterderweide; D.C.H. Rüscher **Vibrational spectroscopic investigations of heated concrete**	Jörg Geldmacher; Maria Luisa G. Tejada; Folkmar Hauff; Kaj Hoernle; Dieter Garbe-Schönberg; Ken Heydolph **Late stage evolution of Shatsky Rise volcanism and possible connection to Hess Rise (NW Pacific)**	A.B. Jacquey; M. Cacace; G. Blöcher; N. Watanabe; M. Scheck-Wenderoth **Thermo-Hydro-Mechanical numerical modelling for faulted geothermal reservoir systems: case study of the Groß Schönebeck reservoir**	Michael H. Poelchau, Agnes Matysiak **Measurements of planar deformation features in quartz using EBSD: A new method to prevent false recognition of craters**
11:30	**AWARD WINNER - DMG Goldschmidt Preis 2014** Oliver Nebel **On the virtue and wickedness of modern Rb-Sr dating**	D. Kraemer; M. Bau **Investigating New Biogeochemical Approaches for Prospection of Concealed Metal Deposits: Enhanced Release and Fractionation of ‚Immobile' High Field Strength Elements (REY, Zr, Hf, Th, U) by Leaching in Presence of Biogenic Ligands (Siderophores)**	H. Liu, Y. Zhou, B. Shen, Y. Li, Y. Wang **Ancient Shuangfeng-Bijia collisional orogenic belt in the South China Sea, a "witness" to processes of drifting of fragments from Gondwana, subduction of Tethys and accretion of southeastern Asia**	Jan-Hendrik May; Frank Preusser; Andreas Schellenberger; Roland Zech; Heinz Veit **Late Quaternary landscape dynamics along the Subandean ranges of NW Argentina**	Jan Müller, Monika Koch-Müller, Sandro Jahn **In-situ Raman and infra red spectroscopy on siderite up to 60 GPa and maximum 1000 K**	Christian Selleng; Patrick Fontana; Birgit Meng **Thermal Treatment of Ultra-High Performance Concrete**	M. Abratis; T. Wiersberg; M. Görlitz; W.A. Brand; L. Viereck; N. Kukowski; K.U. Totsche; INFLUINS Scientific Drilling Team **Geochemistry of drilling mud gas from the INFLUINS Scientific Deep Drilling into the Thuringian Syncline, Germany**	Elena Tillner; Thomas Kempka **Comparison between one-way and two-way hydro-mechanical coupling for assessment of fault fluid flow by numerical simulations**	Boris Reznik; Agnes Kontny; Jörg Fritz **X-ray powder diffraction, electron microscopy and magnetic properties of shocked magnetite: a useful geobarometer for cratering processes?**
11:45		H. Albert Gilg, Adrian M. Hall, Anthony E. Fallick, Frank Friedrich, Ulf B. Andersson **Hydrothermal clays in Fe oxide deposits of Norrbotten County, northern Sweden**	M.R. Handy; S. Cionoiu; J. Giese; P. Gross; E. Le Breton; K. Onuzi; J. Pleuger; S.M. Schmid; K. Ustaszewski; S. Zertani | **Orogen-parallel and orogen-normal extension related to ongoing clockwise rotation at the junction of the Dinarides and Hellenides (Northern Albania)**	Henry Wichura, Louis L. Jacobs, Manfred R. Strecker, Andrew Lin, Michael J. Polcyn, Fredrick K. Manthi, Dale A. Winkler, Clemens Matthew **A tale of a whale: How does a ziphiid fossil pinpoint the onset of uplift in East Africa?**	Zhongqing Wu; Renata Wentzcovitch **Spin crossover in ferropericlase and velocity heterogeneities in the lower mantle**	C.H. Rüscher; W. M. Kriven; L. Schomborg; Z. Assi; H. Tchakoute; J. Temuujin; F. Jirasit; L. Lohaus; J. C. Buhl **Geopolymers, additions to Portland-cement and hosting hydrogen storage materials**	G. Wefer, G. Bohrmann, D. Hebbeln, K. Huhn, G. Martinez-Mendez, M. Mohtadi, T. Freudenthal **Scientific drilling in the deep sea with the sea floor drill rig MARUM-MeBo**	C. Otto, T. Kempka **Thermo-mechanical simulations of rock behavior in underground coal gasification show negligible impact of temperature-dependent parameters on permeability changes**	Dennis Harries; Shogo Yakame; Masayuki Uesugi; Falko Langenhorst **Sub-micrometer impact craters on a regolith grain of asteroid 25143 Itokawa**

TUESDAY, 6.10.2015

	Max Kade Audi 1.200 seats	Hall A 350 seats	Hall B 220 seats	Hall C 300 seats	Hall D 250 seats	Senatssaal 60 seats	ZG 1 30 seats	RW 1 50 seats	RW 2 70 seats
12:00	**Lunch break | poster session | exhibition**								
12:15		**Information on DFG funding in Geosciences**							
13:30	**Awards: Leopold-von-Buch-Plakette, Teichmüller-Preis, Bernd Rendel Preise der DFG**								
13:45	**Plenary Lecture: *Trond Torsvik* (University of Oslo, Norway): Paleomagnetism and Plate Tectonics**								
14:45	**Coffee break | poster session | exhibition**								
15:30	**A1-06 Subduction systems....** | *chair: J.H. Behrmann, M. Stipp*	**A6-03 Ocean Gateways – Arteries of...** | *chair: M. Sarnthein, H. Kopp, S. Voigt, G. Knorr*	**A2-01 Plate tectonics...** | *chair: S. Brune, C. Heine*	**A6-01 Tect. & climatic imprints...** | *chair: T. Schildgen, M. Dühnforth, B. Bookhagen, C. Spiegel*	**C4 Young Sedimentologists** | *chair: M. Hinderer, R. Bussert, U. Heimhofer*	**B1-01 Multi-scale evol. of sedimentary basins** | *chair: R. di Primio, J. Wendebourg*	**B6-02 Archaeometry, mon. conserv. & dim. stones** | *chair: K. Bente, C. Berthold, A. Ehling, K. Poschlod*	**C3 Earth Science Informatics for a Dynamic Planet** | *chair: R. Huber, R. Bertelmann*	**A3-02 Impact Cratering in the Planetary System** | *chair: K. Wünnemann, C. Hamann*
15:30	Marzieh Baes, Stephan Sobolev **A missing element in Wilson Cycle scenario**	***Keynote:*** Yannick Donnadieu, Emmanuelle Puceat **Late Cretaceous changes in continental configuration: toward a better-ventilated ocean?**	***Keynote:*** Kenni Petersen **Mantle temperature and the time scale of extensional basin subsidence**	Eric Deal; Gianluca Botter; Anne-Catherine Favre; Jean Braun **Landscape evolution driven by an analytical stochastic hydrological model**	M. Yar, M. Arif, A. Khan Afridi, M. Saeed, A. Ali, M. Ziad **Petrography, Provenance and Diagenetic study of sandstone from Murree Formation, Peshawar Basin, NW Pakistan**	Johannes Wendebourg, Frank Adler, François Lorant, Bertrand Chevallier **Hydrodynamics: a key to exploration success in the South Caspian Sea**	***Keynote:*** Gerda Schirrmeister **Decorative Stones in Berlin: Monument Conservation and Public Education**	***Keynote:*** Jens Klump **Dynamic Data for a Dynamic Planet**	R. Winkler; M. H. Poelchau; T. Hoerth; T. Kenkmann **Subsurface deformation induced by experimental hypervelocity impacts in different target materials**
15:45	Uwe Kroner; Rolf L. Romer **Contrasting subduction modes in the Variscan collisional orogen**	***Keynote:*** Karsten Gohl, Graeme Eagles, Wilfried Jokat **The challenge of polar ocean gateway reconstructions**		Stephanie M. Olen, Bodo Bookhagen, Manfred R. Strecker **Vegetation impacts on Himalayan denudation and landscape**	H.T. Thi Hoang, J. Walde, E. Rott, D. Sanders | **Controls on intramontane 'cool'-spring limestones, Austria (Eastern Alps): Implications of a quantitative approach**	S. Müller; R. Lutz; L. Reinhardt; C. Gaedicke; H. Thöle **Correlation of shallow gas indicators and seismic stratigraphic units in the German North Sea**	K. Bente, R. Wirth, Ch. Berthold, A. Schreiber, M. Keuper | **Microstructural and chemical mechanisms of the transformation of red (corallium rubrum) to white corals**		A. Kowitz, W.U. Reimold, R.T. Schmitt | **Porosity, a catalyst for formation of shock deformation features in the low-shock pressure regime (2.5-20 GPa)**
16:00	Hannah Pomella, David Flöss, Romed Speckbacher, Peter Tropper, Bernhard Fügenschuh **The Eoalpine High Pressure Event in the western Eastern Alps**	Michael Stärz; Wilfried Jokat; Gregor Knorr; Gerrit Lohmann **Tipping point in North Atlantic-Arctic circulation controlled by the Oligocene-Miocene subsidence of the Greenland-Scotland Ridge**	M. Cacace, M. Scheck-Wenderoth | **Why intracontinental basins subside longer - 3D feedback effects of lithospheric cooling and sedimentation on the flexural strength of the lithosphere**	Dirk Scherler, Michael P. Lamb, Edward J. Rhodes, Jean-Philippe Avouac **Climate-change versus landslide origin of fill terraces in an arid bedrock landscape: San Gabriel River, CA**	Rong Wang, Bernhard Diekmann **Provenance and dispersal of terrigenous sediments in the North Pacific: Implications for late glacial land-ocean linkages**	Peter Klitzke; Sebastien Gac; Jan Inge Faleide; Magdalena Scheck-Wenderoth **Lithospheric Strength and elastic thickness of the Barents Sea and Kara Sea region**	Axel Gerdes, Klaus Bente, Christoph Berthold **Origin of bead decorations of celtic fibulae: Constraints from in-situ Sr and B isotope composition**	P. Gerchow; R. Koppe; A. Macario; A. Haas; C. Schäfer-Neth; H. Pfeiffenberger **O2A - supporting data managment from observation to enhanced data product**	N. Güldemeister; K. Wünnemann; M. Poelchau **Scaling impact crater dimensions in cohesive rock by numerical modeling and laboratory experiments**
16:15	Caroline Mantey, Manfred R. Brix, Bernhard Stöckhert **Prolonged tectonic history of a thin crustal lid on top of a subduction zone: The polygenetic mélange on Crete**	***Keynote:*** Ann Holbourn; Wolfgang Kuhnt; Karlos G.D. Kochhann; Mitch Lyle; Nils Andersen **Reconstructing Miocene climate history from Pacific deep sea sedimentary archives**	Ritske S. Huismans **Depth-dependent extension, two-stage breakup and depleted lithospheric counterflow at rifted margins**	G. De Gelder, D. Fernández-Blanco, R. Lacassin, A. Delorme, R. Armijo, J. Jara-Muñoz, D. Melnick | **Pleistocene vertical movements along the Hellenic arc (S-Greece): analysis of marine terraces through high-resolution DEMs**	Adrian Linsel, Matthias Hinderer, Jens Hornung, Kristian Bär **Well-logs beneath Messel penetrating the post-Variscan unconformity (Sprendlinger Horst)**	Heinrich Bahlburg **On restoring sedimentary basins for post-depositional deformation – Paleozoic basins of the central Andes**	Jochen Lepper; Angela Ehling **Wesersandstein: Building, dimension and ornamental stone, used yesterday and today**	Mike Sips; Doris Dransch; Patrick Köthur **Big Data Analytics Research at the GFZ German Research Center for GeoSciences**	Jakob Wilk, Thomas Kenkmann **The surface structure of shatter cones in experimental impact craters**
16:30	G. Schepers; D. J.J. van Hinsbergen; M. E. Kosters; L. M. Boschman; W. Spakman **Testing causes of Andean flat slab subduction in an absolute plate motion frame**	***Keynote:*** Wolfgang Kuhnt; Ann Holbourn; Jian Xu; J. Schröder; E. Lo Giudice Capelli; R. Zuraida; M. Henrizan | **Indonesian Throughflow and Indo-Australian Climate History through the last glacial cycle**	J. Sippel; C. Meeßen; M. Cacace; M. Scheck-Wenderoth; S. Fishwick; C. Heine; M.R. Strecker; J. Mechie **| Lithospheric strength variations across the Kenya Rift region as constrained by data-driven 3D gravity and thermal modelling**	Olaf Tietz; Jörg Büchner **Quantification of neotectonic movements after volcanic edifices and Quaternary deposits – an example from the Lausitz block-faulted area (Germany)**	A. Isaack, E. Gischler, J. H. Hudson, F. S. Anselmetti, A. Lohner, G. Camoin **Holocene sedimentation in the barrier reef lagoon of Bora Bora, Society Islands (French Polynesia), South Pacific**	Grobe Arne, Litte Ralf, Urai Janos **Structural and thermal history of the Oman Mountains**	G. Buck; I. Zutterkirch; C. Lauer; C. Berthold; P. Schmidt; K.G. Nickel **Materials Science of the Middle Stone Age: Heat treatment of flint and silcrete**	Stefanie Schumacher; Amelie Driemel, Hannes Grobe, Rainer Sieger **PANGAEA® - more than 20 years serving the earth science community with data archiving and publication**	Matthias Ebert; Lutz Hecht; Christopher Hamann **Simulation of impact melting processes: An experimantal approach using high-energy laser beam**
16:45	David Völker, Michael Stipp **Water input and water release from the subducting Nazca Plate along southern Central Chile (33°S-46°S)**	M. Sarnthein, N. Khélifi, M. Frank, N. Andersen, D. Garbe-Schönberg | **Late Pliocene-to-early Pleistocene Mediterranean Outflow Waters in the N.E. Atlantic: Where? When? Forcings and Implications of Change?**	C. Spiegel, J. Lindow, P. Kamp, S. Mukasa, F. Lisker, G. Kuhn, K. Gohl **Activity of the West Antarctic Rift System along Marie Byrd Land and the Amundsen Sea area**	E. Wenger, J. Büchner, O.Tietz, D. Sauer | **Implications for landscape evolution in the Zittau Mountains (Eastern Saxony) inferred from the low erosion level of the Lausche Volcano (Lusatian Volcanic Field)**	Ingmar Frese, Eckhardt Stein, Thomas Kenkmann **Investigation of the Western Badenweiler-Lenzkirch-Zone with respect to sedimentological, structural and economical aspects**	V. Sachse, Z. Anka, J. F. Rodriguez, R. di Primio **The impact of Andes tectonics on hydrocarbon generation in the northern Austral Basin, southern Argentina, South America**	M. Mishmastnehi; R. Milke **Diopside-Quartz-Glass thermometer: Temperature regime estimation of synthesized millstones from Iran**	Kirsten Elger, Kerstin Lehnert, Roland Bertelmann **Data Publication and Citation**	C. Hamann; L. Hecht; M. Ebert; A. Deutsch **Formation of calcite melts in hypervelocity impact and laser melting experiments**
17:00	**Poster Social for Posters of the following Sessions: A1-03, A1-04, A1-06, A2-01, A2-04, A3-03, A4-01, A4-03, A4-05, A6-03, A6-07, B1-01, B1-02, B1-03, B1-04, B3-03, B5-02/-03/-04, B6-02, B6-03/-04/-05, C1/C2, C3, C4**								
19:00			**Mitgliedervers. DGGV**						
20:00	**Conference Dinner**								

WEDNESDAY, 7.10.2015

	Max Kade Audi 1.200 seats	Hall A 350 seats	Hall B 220 seats	Hall C 300 seats	Hall D 250 seats	Senatssaal 60 seats	ZG 1 30 seats	RW 1 50 seats	RW 2 70 seats
08:00	**Registration**								
08:30	**A1-04 Mountain build. on the scale... |** *chair: C. Trepmann, U. Altenberger, R. Abart*	**A3-03 Earthlike Planets... |** *chair: D. Breuer, T. Spohn*	**A4-04 When and How did Plate Tectonics... |** *chair: R. Stern, T. Gerya, S. Sobolev*	**A6-07 Glacial tectonics... |** *chair: C. Brandes, C. Hübscher*	**B6-03 Energy, materials & minerals ... |** *chair: S. Schorr, C. Stephan / H. Pöllmann / S. Stöber, M. Keuper*	**B1-02 Rock & Fluids Properties... |** *chair: W. van Berk, H.M. Schulz*	**B3-01 Operational Earthqu. Forecasting... |** *chair: J. Zschau, S. Wiemer*	**C1/C2 Advances in mat. Character. ... |** *chair: C. Berthold, J. Göttlicher, A. Gerdes, G. Floor*	**B5-02 Subsurface storage |** *chair: C. Müller, C. Ostertag-Henning*
08:30	***Keynote:*** Gerlinde Habler; Thomas Griffiths; Olga Ageeva; Rainer Abart **Microfabrics of mineral host-inclusion systems: constraining formation mechanisms**	A. Rozel, G.J. Golabek, P.J. Tackley **Evolutionary models of the Earth with a grain size-dependent rheology**	***Keynote:*** Kent Condie; Cin-Ty Lee; Richard C Aster; Jeroen van Hunen **Subductionless Archaean continental drift and implications for secular tectonic evolution on Earth**	A. Gehrmann, M. Meschede, H. Hüneke, S.A. Schack Pedersen, K. Obst | **Constructing Balanced Cross Sections from 2D Cliff Profiles of the Jasmund Glaciotectonic Complex (Rügen Island, NE Germany)**	A.-L. Hansen; T. Dankwort; M. Winkler; L. Kienle; J. König; W. Bensch **The Future of Thermoelectric Materials: High Efficiency vs. Earth abundance**	***Keynote:*** Knut Bjørlykke **Constraints on fluid flow and mass transport on diagenesis in sedimentary basins. Predicting physical properties of sandstones and shales**	S. Parolai, J. Lauterjung, D. Bindi, M. Pittore, M. Wieland, T. Boxberger, M. Pilz, A. Saponaro, S. Ullah, B. Petrovic, M. Haas, K. Fleming **Activities of the Centre for Early Warning Systems, GFZ Potsdam**	***Keynote:*** Paul R.D. Mason **New developments in microanalytical techniques for sulfur isotope analysis**	***Keynote:*** Gerold W. Diepolder **Cross-border 3D geological modelling for subsurface potential assessment – lessons learned from the transnational GeoMol project**
08:45		Tobias Rolf; Bernhard Steinberger; Stephanie Werner **On the dynamic origin of Venus' unusual gravity spectrum**		P. B.E. Sandersen, F. Jørgensen | **Deglaciation-induced reactivation of deep-seated faults in southern Denmark – an example of temporary tectonic instability in the early Holocene**	K. Neldner, G. Gurieva, D. Többens, P. Whitfield, S. Schorr | **Phase content and neutron diffraction analysis of off-stoichiometric Cu2ZnSnS4 (CZTS)**		M. Pittore, M. Wieland, M. Haas, S. Parolai, K. Fleming | **On-demand and near-real-time earthquake impact forecasting for Central Asia: the CARAVAN tool**		
09:00	Florian Heidelbach **Garnet formation in the CMAS system under deviatoric stress**	Lyal B. Harris; Jean H. Bédard **Linked plume-related rifting, regional transcurrent faulting and indentation tectonics on Venus interpreted from Bouguer gravity and radar — a precursor to plate tectonics**	Robert J Stern **A Wegenerian Approach to Understanding When Plate Tectonics Began**	M. Al Hseinat, C. Hübscher, J. Lang, I. Ott, U. Polom, C. Brandes, A. Hampel, J. Winsemann | **Ice-load induced salt tectonics controlled crestal collapse graben evolution – Instances from the Southwestern Baltic Sea**	L. E. Valle-Rios, G. Gurieva, S. Schorr **Synthesis and structural characterization of off-stoichiometric Cu2ZnSnSe4**	E.T. Arning; S. Häußler; Y. Fu; W. van Berk; H.-M. Schulz **Integrated hydrogeochemical modelling of rock-water interactions in shallow marine sediments: implications for biogenic methane prediction**	P. Brondi, M. Picozzi, A. Emolo, A. Zollo, M. Mucciarelli | **Rapid Estimation of Macroseismic Intensity for On-site Earthquake Early Warning in Italy from Early Radiated Energy**	S. Schuth, A. Brüske, I. Horn, J. Ciążela, M.C. Arnold, S. Weyer **Stable Vanadium isotope analyses by femtosecond LA-ICP-MS, and solution MC-ICP-MS**	Gabriela von Goerne, Christian Müller and Project Group **Project TUNB - a 3D Model of the North German Basin**
09:15	C. Soder; R. Ziergöbel; R. Altherr **Eclogite xenoliths from post-collisional mafic dykes in the Variscan Odenwald (Germany)**	P. J. Tackley; D. Lourenco; A. Rozel; T. Nakagawa **The key influence of magmatism on the thermo-chemical-tectonic evolution of terrestrial planets**	K. Ziaja; S.F. Foley; R.W. White, S. Buhre | **Metamorphism and melting of picritic crust and its contribution to continental crust formation in the early Earth**	M. Al Hseinat; C. Hübscher **Ice-load Induced Tectonics Controlled Tunnel Valley Evolution – Instances from the Southwestern Baltic Sea**	Florian Kiesel, Anna-Maria Welsch, Hannes Krueger **High-temperature studies on spodumene polymorphs**	M.-L. Grundtner; D. Groß; H.-G. Linzer; D. Misch; R. Sachsenhofer; L. Scheucher; R. Gratzer | **Diagenesis of Upper Eocene clastic reservoir rocks in the Alpine Foreland Basin (Austria)**	Lunio Lervolino, Eugenio Chioccarelli **Operational Earthquake Loss Forecasting: a Retrospective Analysis of some Italian Seismic Sequences**	Axel Gerdes **Direct insitu U-Pb dating of secondary carbonates by LA-SF-ICPMS**	Sabine Sattler, Julia Rienäcker **New techniques to create a 3D structural model of the deeper underground in the North German Basin in Lower Saxony**
09:30	C. Trepmann **Deformation and stress history during burial and exhumation – the quartz microstructural record of rocks from the Talea Ori, Crete, Greece**	Dennis Höning; Tilman Spohn **Feedback cycles in planetary evolution including continental growth and mantle hydration**	J. van de Löcht, C. Münker, J.E. Hoffmann, R.Kleinschrodt and M.T. Rosing | **Eoarchean peridotites from southern West Greenland: remnants of Eoarchean mantle or ultramafic cumulates?**	Christian Brandes; Holger Steffen; Rebekka Steffen; Patrick Wu **Climate-change induced earthquakes in northern Central Europe**	N. Gaida, N. Nishiyama, A. Holzheid, O. Beermann, C. Giehl, L. Kienle, A. Masuno **Improvement of mechanical properties in poly-nanocrystalline composite ceramics**	J. Schmatz, J. Klaver, G. Desbois, J. L. Urai | **Cryo-BIB-SEM and Wood's Metal Injection to image pore morphology, pore connectivity, and fluid distribution in hydrocarbon bearing rocks**	R. Wang, Y. Zhang, J. Zschau, S. Parolai, F. Diao, T. Dahm **Imaging finite-fault earthquake sources by iterative deconvolution and stacking (IDS) of near-field complete seismograms**	P. Asmussen; O. Conrad; A. Günther; M. Kirsch, U. Riller **Semi-automatic segmentation of thin section images with an application to characterize subarkose sandstone**	F. Hese, K. Lademann, C. Thomsen | **Geological 3d modelling of the Northwest German Basin in Schleswig-Holstein for investigations of the geothermal potential of reservoirs and fault zones**
09:45	Z. Hamimi; B. Zoheir **East-West Gondwana collision: microstructural evidence for earlier timing**	***Keynote:*** Vlada Stamenković; A. Lenardic; T. Höink; D. Breuer **From exoplanets to the importance of shear stresses for plate tectonics on Earth-like planets**	K.P. Schneider; J.E. Hoffmann; C. Münker; A. Kröner **Are mafic and ultramafic rocks from the lower Onverwacht Group (Barberton Greenstone Belt) crustally contaminated?**		C. Fischer, I. Kurganskaya, A. Luttge | **Prediction of porosity evolution in polycrystalline material: A combined experimental and Kinetic Monte Carlo study using the rate spectra concept**	Yaling Zhu; Andrea Vieth-Hillebrand; Brian Horsfield **Investigating water-soluble organic compounds released from black shales and coals**	J. Lauterjung and GITEWS Team **The Tsunami Early Warning System for the Indian Ocean**	H. Ott; H. Peters; P. van den Bos; C. Peng | **Phase properties and chemical rock-fluid interactions in-situ and under reservoir conditions investigated by Raman spectroscopy**	L. Pollok et. al. **Project InSpEE: Storage Potential for Renewable Energies (CAES & H2) in Northern Germany's Salt Structures**
10:00	**Coffee break | poster session | exhibition**								

WEDNESDAY, 7.10.2015

	Max Kade Audi 1.200 seats	Hall A 350 seats	Hall B 220 seats	Hall C 300 seats	Hall D 250 seats	Senatssaal 60 seats	ZG 1 30 seats	RW 1 50 seats	RW 2 70 seats
10:30	Awards: AG Werner in Silber, Goldschmidt Preis, Ramdohr Preis, Beate-Mocek Preis								
10:45	**Plenary Lecture: *Barbara Romanowicz* (IPG Paris and Berkeley University, USA): Global mantle imaging in the age of high speed wavefield computations**								
11:45	**Lunch break | exhibition**								
12:30	**A4-05 Archean environments and ecosystems** | *chair: A.Airo, C. Heubeck*	**A2-04 Magmatism in oceanic...** | *chair: O. Nebel, C. Beier, L. Viereck, M. Abratis, J. Büchner*	**A4-04 When & How did Plate Tect...** | *chair: R. Stern, T. Gerya, S. Sobolev*	**A6-04 Weathering & Global Biogeochem. ...** | *chair: J. Bouchez, C. Fischer, J. Hartman, F.v.Blanckenburg*	**A4-01 Mantle flow...** | *chair: B. Steinberger, N. Tosi, C. Faccenna /C. Thomas, A. Nowacki*	**B1-03 Shales and Coals: Source and reservoir...** | *chair: R. Littke, V. Wrede*	**B3-03 Geological signatures of extreme e. ...** | *chair: H. Bahlburg, M. Spiske*	**A2-03 Large Igneous Provinces...** | *chair: E. Rivalta, G. Jacques, G. Uenzelmann-Neben, R. Trumbull*	**B5-02 Subsurface storage** | *chair: C. Ostertag-Henning, A. Liebscher*
12:30	***Keynote:*** Alessandro Airo, Martin Homann **Links between morphology and metabolism of modern and Archean microbial communities**	***Keynote:*** Albrecht Hofmann **Canonical Element Ratios as Tracers of Mantle Circulation – a Reassessment**	***Keynote:*** Jean H. Bédard, Lyal B. Harris **Subductionless Archaean continental drift and implications for secular tectonic evolution on Earth**	***Keynote:*** Jérôme Gaillardet, Julien Bouchez, Mathieu Dellinger **From plate tectonics to plate weathering**	Andrew Fowler, Peter Howell, Tania Khaleque **Convection of a fluid with strongly temperature and pressure dependent viscosity**	S. Poetz, N. Mahlstedt, H. Wilkes, B. Horsfield | **Tracking the retention, mobilization and chemical evolution of major NSO compound classes in petroleum systems**	***Keynote:*** Anselm Smolka **Managing the risk from natural perils**	D. Franke; H. Koopmann **Large igneous provinces - a consequence of plate tectonics?**	H. Feldrappe, M. Stöwer, C. Arnold | **Dimensioning and optimizing of gas storage caverns in flat bedded salt formations using the example of storage site Bernburg (Central Germany)**
12:45	M. Homann, C. Heubeck, T. R. R. Bontognali, A. Airo **Evidence for cavity-dwelling life in 3.2 Ga tidal deposits (Moodies Group, Barberton Greenstone Belt, South Africa)**				Tobias Rolf, Fabio A. Capitanio, Paul J. Tackley **Dynamic characteristics of plate motions and continental drift in global mantle flow**	T. Gorka, E. B. Teigler, S. Peters **Geological parameters for successful shale gas plays – why is testing so crucial?**		S. V. Sobolev, A. V. Sobolev **Models of the Earth's largest inter-plate magmatic events-Siberian Traps and Ontong Java Plateau**	H. Ott, J. Snippe, S. Oedai **Multiphase flow and unstable calcite-dissolution patterns from the core to reservoir scale**
13:00	L. Stutenbecker, C. Heubeck | **Deltaic progradation under high tidal range: the lower Moodies Group, Barberton Greenstone Belt, South Africa**	C. Beier, P. A. Brandl, K. M. Haase **Implications from lateral zoning of plumes approaching ridges**	Ali Polat | **Convergent plate margin processes in the Archean Craton of West Greenland between 3.8 and 2.5 Ga: Evidence for the operation of plate tectonics in the early Earth**	Julien Bouchez, Jérôme Gaillardet **Weathering of shales under a tropical climate in the Bolivian Andes**	***Keynote:*** Henri Samuel, Scott King **Mantle convective dynamics and mixing processes across scales**	J. Klaver, G. Desbois, R. Littke, J. L. Urai **Pore space morphology and distribution in mature and post mature Posidonia Shale samples from the Hils area, Germany**	G. Hoffmann, K. Reicherter, C. Grützner, F. Preusser **The geological signatures of extreme wave events within the archaeological record – examples from the coastline of the Arabian Sea**	Weiyuan Li | **Neoproterozoic-Phanerozoic tectonic evolution, magmatic pulses and metallogenic concentric period in East Asia: relation to the cycle of a self-organizing superheat-dissipation in the Earth**	S. Henkel, D. Pudlo, F. Enzmann, R. Gaupp | **A comparison of high resolution X-ray CT generated data with common analytical methods – Advantages of µ-CT analysis, models and numerical simulations**
13:15	S. Nabhan, T. Luber, C. Heubeck | **Climatic and geochemical implications of Archean pedogenic gypsum of the Moodies Group (~3.2 Ga), Barberton Greenstone Belt, South Africa**	D. Prelevic, R. Mertz-Kraus, S. Buhre, D. Mertz **Petrological characterization of the seismic low-velocity anomaly beneath the Eifel volcanic field (West Germany) using major and trace element compositions of olivine macrocrysts**	L.B. Harris; J.H. Bédard | **Indentation and lateral escape in Western Ishtar Terra, Venus and the Archaean Superior Craton, Canada — "Wegenerean" continent-like drift without subduction and modern plate tectonics**	Lyla Taylor; Steve Banwart; David Beerling **Responding to anthropogenic climate change and ocean acidification: insights from a global weathering model**		S. Bou Daher, F. H. Nader, R. Littke **Source rocks potential and maturity modelling of the east Mediterranean Levant basin and its eastern margin**	H. Bahlburg, M. Spiske | **Styles of early diagenesis and the preservation potential of onshore tsunami deposits - a re-survey of Isla Mocha, Central Chile, two years after the February 27, 2010 Maule tsunami**	S. Estrada, F. Henjes-Kunst **The Cretaceous High Arctic Large Igneous Province (HALIP): Temporal and geochemical variations of occurrences on the Canadian Arctic islands**	S. Fischer; J. L. Wolf; S. Waldmann; H. Rütters; A. Niemi; J. Bensabat; F. May; and D. Rebscher | **Implementing SO_2 as a CO_2 stream impurity in geochemical simulations of different sandstone formations potentially suitable for geological CO_2 storage**
13:30	Christoph Heubeck **Architecture of Moodies Group (Barberton Greenstone Belt, 3.22 Ga) suggests partial convective overturn of unstable lithosphere**	Maxwell Marzban Thiemens, Peter Sprung **West Eifel xenolith analyses via multiple isotopic systems**	J.E. Hoffmann, E. Musese, A. Kröner, C. Münker **Hf-Nd and trace element constraints on granitoid-greenstone relationships of the >3.46 Ga Dwalile Greenstone Belt, Ancient Gneiss Complex (Swaziland)**	F. von Blanckenburg, J. Bouchez, D. E. Ibarra, K. Maher | **Stable weathering fluxes into the oceans over glacial-interglacial cycles from 10Be/9Be records and global runoff-weathering models**	Maxime Maurice, Nicola Tosi, Ana-Catalina Plesa, Doris Breuer, Christian Huettig **Evolution and Consequences of Magma Ocean Solidification**	S. Ladage & Team BGR - NIKO Project **Shale Gas and Fracking in Germany - Resources and Environmental Risks**	D. Völker, A. Kopf, M. Ikari, S. Trütner, J. Bialas **The Reloca Slide offshore Central Chile - a revision based on geotechnical sliding plane characterization and tsunami modeling**	F. Riefstahl, S. Estrada, W. Geissler, W. Jokat, R. Stein, H. Kämpf, P. Dulski, R. Naumann, C. Spiegel | **Provenance and characteristics of rocks from the Yermak Plateau, Arctic Ocean: Petrographic, geochemical and geochronological constraints**	M. Berta, F. Dethlefsen, M. Ebert, C. Mascus, A. Dahmke **Reductive biogeochemical sequence triggered by hydrogen in experiments using aquifer sediment and groundwater**
13:45		L. Viereck, T. Meier, R. Soomro, C. Weidle, L. Cristiano, M. Abratis, S. Lebedev, J. Büchner **Memory of the LAB for melt generation in Central European intraplate volcanic fields**	T. Gerya, R. Stern, R. Fisher, E. Sizova, M. Baes, S. V. Sobolev, S. Whattam **Plume tectonics and subduction in the early Earth**	M. Schoell, R. Tappert, K. Muehlenbachs, A. P. Wolfe, R. C. McKellar **Orogenetically driven weathering as major control of atmospheric oxygen during the Phanerozoic**	M. K. Kaban, W. D. Mooney, A. G. Petrunin **Cratonic roots under North America are shifted by basal drag: new evidence from gravity and geodynamic modeling**	H. Pfunt; G. Houben; T. Himmelsbach | **Fracking and potential risks for fresh water aquifers – Numerical modeling of fluid flow due to hydraulic fracturing of shale formations in the North German Basin**		R. Pietsch; G. Uenzelmann-Neben **A multistage volcanic and tectonic formation history of the Manihiki Plateau, central Pacific**	M. Wipki, A. Liebscher, F. Möller, B. Prevedel, S. Lüth, C. Schmidt-Hattenberger, M. Zimmer, R. Conze, T. Kempka, T. Kollersberger | **CO_2-Storage – from Site Assessment to the Post-Closure Phase**

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14:00	**Historisches Sympsoium:** ***Faszination Alfred Wegener: Leben, Aktivitäten und wissenschaftliche Leistungen***	**Coffee break | exhibition**							
	Keynote: Ulrich Wutzke **Alfred Wegener (1880–1930) – Eine Idee erobert die Welt**								
14:30		**A1-03 From oceanic subd. to continental collision… |** *chair: C. Beier, R. Halama*	**A4-04 When & How did Plate Tect… |** *chair: R. Stern, T. Gerya, S. Sobolev*	**A6-04 Weathering & Global Biogeochem. … |** *chair: J. Bouchez, C. Fischer, J. Hartman, F.v.Blanckenburg*	**A4-01 Mantle flow… |** *chair: B. Steinberger, N. Tosi, C. Faccenna /C. Thomas, A. Nowacki*	**B1-04 Exploration and development of natural resource projects |** *chair: B. Teigler*	**B3-03 Geological signatures of extreme e. … |** *chair: H. Bahlburg, M. Spiske*	**A2-03 Large Igneous Provinces… |** *chair: E. Rivalta, G. Jacques, G. Uenzelmann-Neben, R. Trumbull*	**B5-02 Subsurface storage |***chair: V. Bräuer, G. Blöcher*
14:30	***Keynote:*** Wolfgang Jacoby **Wie dachte Alfred Wegener über die Ursachen der Kontinentalverschiebung?**	J. Koepke, S. Feig, P. E. Wolff | **Shallow magmatism during subduction-zone initiation: Constraints from the Oman ophiolite and related experiments**	***Keynote:*** David Bercovici; Yanick Ricard **Origin of plate tectonics: Grain-damage, inheritance and hysteresis**	N. Moosdorf, M.-C. Hajati, K. Haßler | **Groundwater as transport pathway in biogeochemical cycles: from local observations to global estimates**	Bernhard Steinberger **Inferring mantle flow and dynamic topography from seismic tomography**	B. Cramer, K. Kleeberg, U. Lehmann | **Ore Mountains reloaded – new exploration of ore and spar deposits in Saxony**	Li Li, J. Böhner **Coastal storm surge flooding impact under different climate scenarios in Pearl River Delta**	K. Hochmuth, K. Gohl, G. Uenzelmann-Neben, R. Werner | **How can a "Super-LIP" break apart? – Indications from the crustal structure of the Manihiki Plateau, western Pacific**	F. Brandt, M. Klinkenberg, V. Vinograd, U. Breuer, J. Weber, D. Bosbach | **Radiogeochemistry of Radium in a nuclear waste repository system**
14:45		A. Stechern, T. Just, M. Banaszak, F. Holtz | **Decoding Magma Plumbing and Geochemical Evolution Beneath the Lastarria Volcanic Complex (Northern Chile) - Evidence for Multiple Magma Storage Regions**		Y. Godderis; Y. Donnadieu **The role of palaeogeography in the Phanerozoic history of atmospheric CO2 and climate**	Roberto Agrusta; Jeroen van Hunen; Saskia Goes **The influence of mantle phase transformations on the slab dynamics**	H. Gielisch | **Coal Fires of the Jharia Coal Field/India – A national disaster endangered the Indian Coking Coal Production and the development of the most important natural resource of India**	M. Ostermann, A. Dufresne **Morphology and sedimentology of a large carbonate rockslide – rock avalanche deposit (Tschirgant, Austrian Alps)**	M. Sajid, J. Andersen, M. Arif | **Petrography and Geochemistry of rift-related dykes in northern Indian plate, north-west Pakistan**	C. Fischer, S. Finkeldei, F. Brandt, D. Bosbach, A. Luttge | **Analysis of dissolution rate components in potential nuclear waste forms: The example of pyrochlore**
15:00	***Keynote:*** Jörn Thiede **Wladimir Köppen, Alfred Wegener und Milutin Milankovitch: Pioniere und Partner der Paläoklimaforschung**	B. Schulz | **Resolving the complex structure in Mediterranean microplates: The evolution of the Austroalpine Basement in the Eastern Alps**	P. Chowdhury, T. Gerya, S. Chakraborty | **Continental crustal recycling by modern-day plate tectonics and its plausible nature in the early Earth: A numerical modeling approach**	Eva E. Stüeken **Characterizing Precambrian lakes as unique habitats for the early evolution of life**	T.-R. Alex Song, X. Shen, L. Stixrude, C. Lithgow-Bertelloni | **Seismic constraint of a dry, basalt-rich transition zone near a stagnant slab region beneath China**	P. Mittelstädt, H. Gräßel, C. García Piña | **Airborne hyperspectral and geochemical mineral exploration – challenges and opportunities**	Janusz Wasowski, Fabio Bovenga **Toward better exploitation of satellite multi-temporal interferometry in landslide hazard research**	Maximilian David Fischer, Gabriele Uenzelmann-Neben **The magmatic structure of the Mozambique Ridge**	F. Kober, T. Spillmann, LASMO Team | **The LArge Scale MOnitoring (LASMO) Project at the Grimsel Test Site (GTS) – monitoring the impact of regional perturbations on a URL**
15:15		M. Menneken, T. John; A. Läufer, J. Berndt | **Zircon chemistry of granitoids from the Wilson Terrane of northern Victoria Land (Antarctica): evidence for an immature Andean-type continental margin**	R. Fischer, T. Gerya **Early Earth tectonics: A high-resolution 3D numerical modelling approach**	M. Lindner, U.-N. Berninger, A. Reul, G. Jordan, E. H. Oelkers, J. Schott | **Experimental studies on low calcian magnesite growth**	M. Hosseinpour, N. Flament, S. Williams, M. Seton. R. Hassan, R. D. Müller **Fate of Mesozoic Tethyan slabs in the deep mantle**	Florian Lowicki; Tim Horner **Blötberget Iron Ore Project – From Resource and Mining History to Present**	B.-G. Luehr, A. Anggraini, T. R. Walter, R. Wang, S. Parolai, J. Zschau, P.J. Prih Harjadi, Kirbani Sri Brotopuspito **The role of volcanic deposits related to the destructive Bantul Earthquake 2006**	G. Jacques, R. Werner, F. Hauff, G. Uenzelmann-Neben, K. Hoernle | **First Petrological-Geochemical results from SO-232 (SLIP) at the Mozambique Ridge (SW Indian Ocean)**	Klas Hebbeln, Ralf Köber, Andreas Dahmke **Gas phase formation during thermal energy storage in near surface aquifers**
15:30	***Keynote:*** Günther Schönharting **Die Wahrnehmung der Ideen von Alfred Wegener und Wladimir Köppen in der Öffentlichkeit: ein Stück Wissenschaftsgeschichte**	Ralf Oeser, Anselm Loges, Gerhard Franz, Dieter Rhede, Dina Schultze **Sector zoned tourmalines as a thermometer in blackwall sequences, southwestern Tauern Window (Austria)**	***Keynote:*** Viatcheslav S. Solomatov **Emergence of plate tectonics from magma ocean**		***Keynote:*** Maureen Long, Colton Lynner, Heather Ford, Anwar Mohiuddin, Neala Creasy, Xiaobo He **Observations and models of seismic anisotropy in the deep mantle and implications for mantle flow**	T. Rödel, G. Borg | **East Greenland copper exploration: Geological features and the application of field methods around the Jameson Land basin, Greenland**		N. A. Stroncik, M.-S. Krienitz, S. Niedermann, R. L. Romer, C. Harris, R. B. Trumbull, J. M.D. Day **Mantle plume impingement during break-up of the Gondwana supercontinent**	N. Koproch, R. Köber, A. Dahmke | **Quantification of temperature impacts on the dissolution of chlorinated hydrocarbons into groundwater**
15:45						J. Grötsch, M.C. Pöppelreiter, H-J. Kloosterman and E. van Zeeland **Digital Geology – 'Flight Simulator' for the Subsurface**		A. Weit, I. V. Veksler, J. K. Keiding, R. B. Trumbull **The magmatic roots of Tristan da Cunha - A thermobarometric approach from melt inclusions and phenocrysts**	S. Lerm, R. Miethling-Graff, M. Wolfgramm, K. Rauppach, A. Seibt, H. Würdemann | **Influence of iron- and sulfur-oxidizing bacteria on the operation of a geothermal cold storage system in the North German Basin: impact on well injectivity and filter lifetime**
16:00		**Closing with Poster Awards and Paul Ramdhor Award**							
16:30-18:30			**Workshop BDG**						