

Tuesday, January 12

08.20		Knut Åm – "Is the age of fossil fuels over?"										
08.50		Short coffee break										
Telemark			Finnmark			Lofoten			Christiania			
ER2: Minerals, Metals and Mankind			EBCE6: The Lower Paleozoic Succession in Scandinavia – A tribute to David L. Bruton			EG4 and EG5: Minerals and metamorphic processes			PGE2: Research and exploration on the NE Atlantic margins			
09.00	ER2-01 Keynote	Paleoproterozoic metallogeny and tectonic evolution of the Fennoscandian Shield	Raimo Lahtinen	EBCE3-6-01 Keynote	Soft-bodied fossil preservation in the Sirius Pass: Exploring a different taphonomic dimension to the Cambrian Explosion	David A.T. Harper, Arne T. Nielsen, M. Paul Smith and Jakob Vinther	EG4-5-01 Keynote	Dynamics of mineral structure and its role for the understanding of mineral stability and deduction of geological processes	Tonci Balic-Zunic	PGE2-01 Keynote	The continental shelf of the Norwegian Sea through latest Cretaceous and Tertiary times	Harald Brekke, Robert W. Williams, Christian Magnus & Nils R. Sandstå
09.20												
09.40	ER2-02	The Palaeoproterozoic apatite-iron oxide deposits of the Grängesberg area: Kiruna-type deposits in central Sweden	Erik Jonsson, Katarina Persson Nilsson, Anders Hallberg & Karin Högdahl	EBCE3-6-02	Agnostoids and intercontinental tie points in the Furongian of Scandinavia	Per Ahlberg and Fredrik Terfelt	EG4-5-02	Recognition of polyphase metamorphism (1846 and 1800 Ma) along the southwestern margin of the Svecofennian Domain	K. Sundblad, S. Baltebaev, T. Bergman, G. Patriksson & O. Levchenkov	PGE2-02	Developing a Model of the East Greenland-Jan Mayen-Norwegian Sea Profile: Data, choices and implications	Hartz, E.H., Faleide, J. I., Schmid, D. W., Rüpke, L., Larsen, B. T., Holme, A. C. & Martinsen, B.
10.00	ER2-03	The effect of reinterpreted ore genesis model on the 3D modeling of the Keretti and Vuonos ore deposits, Outokumpu, Finland	Eevaliisa Laine, Esko Koistinen and Kerstin Saalman	EBCE3-6-03	Cephalopods from the Middle Ordovician Otta conglomerate, Norwegian Caledonides	Jan Audun Rasmussen and David L. Bruton	EG4-5-03	Local T-O bond lengths and structural relaxation in the spinel-galaxite solid solution (MgAl <sub>2</sub> O <sub>4</sub> -MnAl <sub>2</sub> O <sub>4</sub> )	Ulf Hålenius, Henrik Skogby and Ferdinando Bosi	PGE-03	Plume Lithosphere Interaction in a 4D perspective: Utilizing 3D seismic resolution for improving the TectonoMagmatic model of understanding	Jakob Skogseid and Audun Groth
10.20	ER2-04	Old deposits, new mines? A FODD perspective on tomorrow's metal mines in Norway	Morten Often & Jan Sverre Sandstad	EBCE3-6-04	Late Ordovician brachiopod radiation in the Tvären crater system, Sweden: a local proxy for the Great Ordovician Biodiversification Event	Åsa Frisk and David A.T. Harper	EG4-5-04	Stability of hiortdahlite and associated zirconium silicate minerals in nepheline syenite pegmatites of the Larvik plutonic complex, Oslo Rift, Norway: The role of volatile components	Tom Andersen, Muriel Erambert, Rune Selbekk, Alf Olav Larsen	PGE2-04	The geology of the Jan Mayen Micro-Continent	Nils R. Sandstå, Harald Brekke, Christian Magnus & Morten Sand
10.40	Short coffee break											
10.50	ER2-05	Quantitative mineral resource assessment of undiscovered PGE resources in layered intrusions in Finland	Pasi Eilu and Kalevi Rasilainen	EBCE3-6-05	Palyonological evidence for early land plants in upper Silurian strata, Skåne, Sweden	Mehlgqvist, K., Vajda, V., Larsson, K. & Steemans, P.	EG4-5-05	Formation of sapphirine and corundum in the scapolitised and Mg-metasomatised Ødegaarden gabbro, Bamble sector SE Norway	H.Austrheim and A.K. Engvik	PGE2-05	Play Models of the Vøring Basin, Mid-Norway Deepwater Areas	K. Berge, P. Bormann, G. Drivenes, P. Frantzen, H. Germs, C. Keuser, R. Ravnås & M. Seger
11.10	ER2-06 Keynote	Tectono-stratigraphic position and depositional environment of the Røros sulphide ores, Norwegian Caledonides	K. Sundblad, M. Beckholmen, O. Nilsen & T. Andersen				EG4-5-06	Geodynamic significance of incomplete reactions: A case study of coronas from the Norwegian Caledonides. Reaction activation and metastability – understanding coronas and their significance for lower crustal rocks	Julia Semprich, Nina S. C. Simon, Johannes C. Vrijmoed, Yuri Y. Podladtchikov	PGE2-06	Four key wells of the northern Vøring Basin: Grøney High, Gjallar Ridge, Hel Graben and Nyk High	Robert W. Williams & Christian Magnus
11.30				EBCE3: Phanerozoic Stratigraphy and Palaeontology			EG4-5-07	Neutron diffraction of rare Be and H-bearing minerals	Henrik Friis, Emil Makovicky and Mark T. Weller			
				EBCE3-6-07	Danish gastropod faunas from the K-T boundary; a catastrophic event in an ecological perspective	Thomas Hansen						
11.50	ER2-07	Geological, petrographical and geochemical investigations on the Qussuk gold mineralization, southern West Greenland	Denis Martin Schlatter, Rasmus Christensen	EBCE3-6-08	A new marine reptile assemblage from the Agardhfjellet Formation (Late Jurassic; Volgian), Svalbard, Norway	Hurum, J. H., Druckenmiller, P. S., Knutsen, E. M., and Nakrem, H. A.						
12.10	Lunch											
13.00	ER2-08	Geology and massive sulfide deposits in the Mofjellet Group in the Rødingfjellet Nappe Complex, Nordland, Norway.	Bjerkgård, T., Kaspersen, P.O., Marker, M., Slagstad, T., Solli, A.	EBCE3-6-09	Preliminary account of new Late Jurassic (Volgian) pilsaurid material from Svalbard, Norway	Espen M. Knutsen, Jørn H. Hurum, Patrick S. Druckenmiller	EBCE5-01	Basin scale contact metamorphism and carbon gas generation: Evidence from the Karoo Basin, South Africa	Stéphane Poiteau, Ingrid Aarnes, Henrik Svensen, Sverre Planke	ER6-01 Keynote	G&G challenges related to CO2 storage in sedimentary rocks	Christian Hermannrud
13.20	ER2-09	Resources of REE, Nb and other special metals in Norway	J.S. Sandstad, P.M. Ihlen, A. Korneliusen, I. Lindahl & A. Müller	EBCE3-6-10	Carbon isotope chemostratigraphy of the Upper Jurassic of Svalbard, Norway	Øyvind Hammer and Hans Arne Nakrem	EBCE5-02	Timescales of sill emplacement in volcanic basins and the implications for degassing scenarios and climate effects	Henrik Svensen, Fernando Corfu, Stéphane Poiteau, Sverre Planke			
13.40	ER2-10	Geology of the Rockiden volcanogenic massive sulphide (VMS) deposit, north central Sweden	Hans Årebäck, Hein Raat and Gilles Depauw	EBCE3-6-11	Provenance of Mesozoic sediments from Svalbard based on LA-MC-ICPMS analyses of clastic zircons: Preliminary results	E. P. Bue, A. Andresen, T. Andersen and R.T. Solbakken	EBCE5-03	Early Jurassic chemostratigraphy and tuff U/Pb ages from the Neuquen Basin (Argentina) and the implications for the Toarcian event	Adriano Mazzini, Henrik Svensen, Hector Leanza, Fernando Corfu, and Sverre Planke	ER6-02	CLIMIT: Commercialisation of power generation from fossil fuels with Carbon Capture and Storage through research, development and demonstration	Svein Eggen, Klaus Schöffel, Trygve Riis
14.00	ER2-11 Keynote	Titanium and iron-titanium provinces in Norway: on the relationships between ore-forming processes and deposit characteristics	Are Korneliusen	EBCE3-6-12	Detrital zircon dating and sedimentology of two Neoproterozoic diamictites from the Gariep belt (Namibia) and consequences for correlation	Anelda van Staden, Udo Zimmermann, Jens Gutzmer, G. Germs and Farid F. Chemale (Jr.)	EBCE5-04	The end-Permian and end-Triassic mass extinction events: causes, consequences, and implications for global change scenarios	Michael Hautmann	EG6-03	Exploration for New CO <sub>2</sub> Storage Opportunities	Sveinung Hagen, Rudolf Maurer, Julien Moisan, Rune Thorsen, John Ove Thorplass
14.20							EBCE5-05	Crater Lake in Siberia: A Unique Lacustrine Record Linking Proxy and Trigger of Carbon Isotope Perturbations at the Permian-Triassic Boundary	Kirsten Fristad, Henrik Svensen, Sverre Planke, and Alexander G. Polozov	ER6-04	Upper Triassic sandstones as possible reservoir for CO <sub>2</sub> storage below Longyearbyen, Svalbard	Atle Mark, Ingrid B. Hynne & Rita Sande Red
14.40	ER2-12	Origin of metals in Westland cauldrons from the Roman import in Scandinavia	H. Bollingberg & K. Sundblad				EBCE5-06	Climate models of the end-Permian – challenges and perspectives	Marco Roscher, Henrik Svensen, Frode Stordal	ER6-05	Longyearbyen CO <sub>2</sub> lab – prospects after the pilot project	Alvar Braathen, Gunnar Sand, Atle Merk, Maria Jensen, Karoline Bælum, Harald Elvebakk, Fred Hansen, and the project team
15.00	Break: Poster session and refreshments											
15.40	ER2-13	Norwegian natural stone deposits in a changing market	Tom Hoidal	ER3: Terrestrial heat flow: From Geodynamics to Society			EBCE5-07	Atmospheric modelling of end-Permian ozone depletion due to venting of methyl halides from the Tunguska Basin in Siberia	Frode Stordal, Line Gulstad, Bjørn Rognerud, Ivar S.A. Isaksen, Henrik Svensen	ER6-06	Impact of microcracks on CO <sub>2</sub> migration through cap rocks	Elin Skurtveit, Matthieu Angeli, Eyvind Aker, Magnus Soldal
				ER3-01	Mapping Thermal Conductivity of the Swedish Bedrock	Gerhard Schwarz, Mattias Göransson, Bo Thunholm, Andrea Förster						
16.00	ER2-14	"Mineral-based" industry in Norway – challenges for geologists	R. Boyd, M. Often and J. S. Sandstad	ER3-02 Keynote	Geothermal Energy - Conventional and unconventional	Guðmundur Ómar Friðleifsson	EBCE5-08 Keynote	Climate change, climate forcing and climate response – a paleoclimatic perspective	Eystein Jansen	ER6-07	Contribution of mineralogical variability of shale in regard to reactivity with supercritical CO <sub>2</sub> : implication to subsurface storage of CO <sub>2</sub>	B. L. Alemu, P. Aagaard, I. A. Munz and E. Skurtveit
16.20										ER6-08	Mechanisms and rates of plagioclase carbonation reactions	Ingrid Anne Munz, Øyvind Brandvoll, Kjersti Iden, Roger Smeets and Tove Anette Haug
16.40				ER3-03	Geothermal studies and paleoclimatic implications of the 2.5 km deep Outokumpu deep drill hole, Finland	I.T. Kukkonen, V. Rath, J. Safanda, V. Cernak & L. Kivekäs	EBCE5-09	Mid-late Holocene climate transition: a foraminiferal stable isotope study from western Norwegian fjord sediments	Heidi Kjennbakken, Hafidi Hafidason, Hans Petter Sejrup	ER6-09	Development of novel reactors for aqueous mineral carbonation – feasibility perspectives and relevance for subsurface CO <sub>2</sub> storage	Øyvind Brandvoll, Ingrid Anne Munz, Jan Kihle, Anette Haug, Ingo Machenbach
17.00	Workshop 4 - The future of geoscientific research and industry - management, recruitment, funding and directions			ER3-04	Geothermal energy – what's in it for Norway?	Inga Berre	EBCE5-10	Ocean-atmosphere flickering ended the Younger Dryas cold period	Jostein Bakke, Øyvind Lie, Einar Heegaard, Trond Dokken, Gerald H. Haug, Peter Dulski, Hilary H. Birks and Trygve Nilsen	ER6-10	Dawsonite dissolution mechanism	J. Declercq, H.Hellevang, P.Aagaard
17.20				ER3-05	Deep geothermal demonstration project in Oslo	Musæus, T.E. Midttømme, K., Hauge, A. & Müller, J.	EBCE5-11	Cenozoic reduction in cell size and abundance of marine calcifying phytoplankton driven by a decline in atmospheric CO <sub>2</sub>	Bjarte Hannisdal, Jorintje Henderiks, Lee Hsiang Liow	ER6-11	In situ CO <sub>2</sub> sequestration in ultramafic rocks – observations from natural systems	Daniel W. Schmid and Håkon Austrheim
17.40				ER3-06	Heat flow of Norway and its continental shelf	Christophe Pascal, Harald Elvebakk, Bjørn Willemoes-Wissing, Niels Balling, Melanie Mesli and Odleiv Olesen	EBCE5-12	Features of a semi-isolated Arctic Ocean and the Paleocene-Eocene Thermal Maximum (PETM) reflected in the Paleogene foraminiferal facies of Spitsbergen	Jenő Nagy, Henning Dypvik, David Jargvoll, Lars Riber	ER6-12	Carbonation of forsterite at 10 bar PCO <sub>2</sub> and 80 to 120°C – Comparisons of numerical simulations and laboratory experiments	H. Hellevang, Julien Declercq and P. Aagaard
18.00				ER3-07	Underground Thermal Energy Storage (UTES) applications – energy systems for the future	Kirsti Midttømme, Bjørn Reyr Kristjánsson og Audun Hauge NGI	EBCE5-13	Mineralogical shifts at The Paleocene-Eocene Thermal Maximum (PETM) event, Svalbard	Henning Dypvik, Lars Riber, Florin Burca, Denise Rüber, David Jargvoll, Jenő Nagy	ER6-13	On the potential of carbonate formation during CO <sub>2</sub> storage - The Utsira case revised	Pham, V., Hellevang, H., and Aagaard, P.
19.30	Conference dinner											