

Tuesday, January 12

Knut Åm: "Is the age of fossil fuels over?"									
Short coffee break									
Helsingfors			København			Stockholm			
ID2: Deformation Processes			EBCE1: Glacial periods and cryogenic processes			EG7: Caledonides - The session is dedicated to Dr. David Roberts, in recognition of his more than 40 years of work in the Scandinavian Caledonides			
08.20									
08.50									
09.00	ID2-01	Characterizing acoustic emission and source mechanisms in rock during failure	Aker, E., Cuisiat, F., Soldal, M. & Kuhn, D.	EBCE1-01	Rapid expansion of marginal ice-contact lakes at the Vatnajökull ice cap, Iceland	Anders Schomacker	EG7-intro 5-10 min	Introduction: A tribute to David Roberts	Øystein Nordgulen
09.20	ID2-02	Sediment compaction, fluid flow and rocks properties	Knut Bjørlykke, Jens Jahren, Nazmul Haque Mondol and Brit Thyberg	EBCE1-02	Age and configuration of the last major glaciation in the Polar Urals	Mona Henriksen, Dmitry Nazarov and John-Inge Svendsen	kl 09.10 EG7-01 Keynote 30 min	The Scandinavian Caledonides as a template for geodynamic processes during continental collision	Torgeir B. Andersen
09.40	ID2-03	Which factors control mechanical compaction in sedimentary basins? Predicting rock properties like porosity and velocity (Vp, Vs) based on experimental compaction of sands with different mineralogy, grain size, shape and sorting	Manzar Fawad, Nazmul Haque Mondol, Jens Jahren & Knut Bjørlykke	EBCE1-03	Glaciations and sea-level changes during two glacial-interglacial cycles in an inter-ice-stream area on NW Svalbard	Helena Alexanderson, Jon Y. Landvik & Heidi T. Ryen	EG7-02	Recycling of the Sveconorwegian orogen: detrital zircon data from the Lower and Middle Allochthons of the Caledonides	B. Bingen, W. L. Griffin & A. Saeed
10.00	ID2-04	From mud to shale: Rock stiffening by quartz cementation during burial of Late Cretaceous mudstones, offshore Norway	Brit Thyberg, Jens Jahren and Knut Bjørlykke	EBCE1-04	Icebound – Late Weichselian ice sheet reconstruction in northern part of Spitsbergen, - by means of cosmogenic nuclide dating, 3D models and satellite data	E.F.Gjermundsen, N. Akçar, A. Kåab, O. Salvigsen, A. Hormes	EG7-03	The architecture of Western Baltica prior to the Iapetus opening, as interpreted from U-Pb ages of zircon from Neoproterozoic allochthonous basin successions and associated basement slices	Lamminen, J.T., Nystuen, J.P. & Andersen, T.
10.20	ID2-05	Modelling of reactive fluid (gas) transport in deformable porous rocks	V.M.Yarushina, Y.Y. Podladchikov	EBCE1-05	Grounding zone system in outer Bjørnøyna, Barents Sea – constraints on its genesis and timing	Denise Røther, Karin Andreassen, Katrine Husum, and Matthias Forwick	EG7-04	Recognition of Precambrian Tectonostratigraphy in the Wedel-Jarlsberg Land Caledonides of Southwestern Spitsbergen	Larionov A.N., Tebenkov A.M., Gee D.G., Czerny J.4, Majka J.
10.40									
Short coffee break									
10.50	ID2-06 Keynote	Quantitative comparisons of numerical models of brittle contractional deformation	Susanne Buiter, Guido Schreurs, Markus Albertz, Michelle Cooke, Tony Crook, David Egholm, Susan Ellis, Taras Gerya, Luke Hodkinson, Boris Kaus, Walter Landry, Bertrand Maillot, Yury Mishin, Christophe Pascal, Anton Popov, Christopher Beaumont, Pauline Souloumiac	EBCE1-06	Sedimentary record of Baltic Ice Lake /Yoldia Sea transition in southern Finland	Hyttinen, O., Kaakinen, A., Ojala, A.E., Salonen, V.-P.	EG7-05	Torellian Orogeny: an evidence of Late Proterozoic tectonometamorphic event in the SW Svalbard's Caledonian basement	Czerny J., Majka J., Gee D.G., Manecki A., Manecki M.
11.10				EBCE1-07	Dissolution of calcite in glacial water; evidence of inhibition and consequences for subglacial cave initiation	Stein-Erik Lauritzen	EG7-06	Origin of the Kalak and Magerøy nappes in Eastern Finnmark and the question of the missing suture	Corfu, F., Andersen, T.B., Torsvik, T.H.
11.30	ID2-07	Effects of gouge fragment shape on friction of faults: New 3D modeling results	Karen Mair and Steffen Abe	EBCE1-08	Ice-margin behavior, glaciomarine sedimentation, and push-moraine formation during the Younger Dryas in southwestern Sweden	Johnson, M.D., Ståhl, Y., Benediktsson, Í. Ó., Björklund, L. & Wedel, P.	EG7-07	Was the Jotun Nappe a Neoproterozoic to Early Paleozoic microcontinent?	Andresen, A. & Karlsen, T.A.
11.50	ID2-08	Fluid-assisted deformation processes of K-feldspar at mid-crustal conditions	Luca Menegon, Giorgio Pennacchioni, Holger Stünitz	EBCE1-09	Time-dependent modelling of subglacial groundwater/channels interactions and their impact on ice sheet behaviour under the LGM Odra lobe, southern Scandinavian Ice Sheet	J.A. Piotrowski, P. Hermanowski & A. Piotrowski	EG7-08	New data on basement-cover relationships in the Bodø-Sulitjelma area, North-Norwegian Caledonides	Andresen, A., Agyei-Dwarko, N.Y. & Augland, L. E.
12.10				Lunch					
13.00	ID2-09 Keynote	Mechanisms of permeability enhancement during chemical alteration	C. Raufaste, J. Mathiesen, B. Jamtveit, T. John, D. K. Dysthe	EBCE1-10 Keynote	Extent and timing of the Scandinavian Ice Sheet during the Late Weichselian (MIS 3/2) glacier maximum in central southern Norway – link to the Norwegian Channel Ice Stream?	Svein Olaf Dahl, Henriette Linde, Derek Fabel & Andrew Murray	EG7-09	The Caledonian history of the Helgeland Nappe Complex - an overview	Ø. Nordgulen, C.G. Barnes, C.F. Frost, W. Marko, A. Yoshinobu
13.20							EG7-10	The Mid-Silurian Beiam magmatic complex: a clue to northward-younging subduction along Laurentia's North-Eastern margin	Augland, L. E., Andresen, A. & Corfu, F.
13.40	ID2-10	Dynamical Models of Depth-Dependent Lithospheric Extension at Rifted Continental Margins: Effects of Strong and Weak Lower Crust	Ritske S. Huisman, Christopher Beaumont	EBCE1-11	The palaeoclimatic significance of archaeological finds exposed at retreating ice patches in Jotunheimen, Norway	Atle Nesje, Espen Finstad, Lars Holger Pliß and Eivind Støren	EG7-12	Geology of the Linnajvri ophiolite and its environs, Nordland, north Norwegian Caledonides	Ingvar Lindahl og Lars Petter Nilsson
14.00	ID2-11	Viscosity ratios in rocks inferred from folded single layers	Daniel W. Schmid, Stefan M. Schmalholz, Neil S. Mancktelow, Raymond C. Fletcher	EBCE1-12	Holocene relative sea level changes in Greenland: a review	Ole Bennike	EG7-11	Some Phanerozoic komatiites, high-Mg basalts and ultramafic metasomatites in ophiolite and arc terranes in the Caledonides of north Norway	Lars Petter Nilsson & Ingvar Lindahl
14.20	ID2-12	Estimating the stresses within the lithosphere: parameter check with applications to the African Plate	S. Medvedev, S. Werner, B. Steinberger and "The African Plate" working group	EBCE1-13	The first radiocarbon dated sea-level curves from northernmost Norway	Anders Romundset, Stein Bondevik	EG7-13	The origin and metamorphic history of the Seve nappes: Åreskutan Nappe, Central Caledonides, Sweden	Anna Ladenberger, Yaron Be'eri-Shlevin, David G. Gee, Jaroslav Majka, Stefan Claesson
14.40	ID2-13	Geodynamic modeling of terrane accretion	Joya Tetreault and Susanne Buiter				EG7-14	Monazite U-Th-total Pb ages from Åreskutan, Sweden – evidence of Caledonian polymetamorphism of the Seve Nappe	Jaroslav Majka, David G. Gee, Yaron Be'eri-Shlevin, Anna Ladenberger, Stefan Claesson, Patrik Konečný
15.00				Break: Poster session and refreshments					
15.40	ID2-14	Dynamics of a segment of the frontal Pyrenean thrust system	Erlend Morisbak Jarsve, Roy H. Gabrielsen & Ako Gilbert Ojong	EG8: NE Atlantic plate tectonic evolution - revisited			EG7-15	Evidence for intrusion of carbonatitic melts in subducted continental crust: High-pressure carbonatite within the UHPM Tromsø Nappe, northern Scandinavian Caledonides	Erling Krogh Ravna, Kåre Kullerød, Børre Davidsen, Trond Slagstad, Peter I. Nabelek, Fernando Corfu, Rune S. Selbekk
16.00	ID2-15	Lateral spreading of orogen – examples from Central Fennoscandia	Annakaisa Korja, Paula Kosunen, Pekka Heikkinen, Timo Kilpeläinen	EG8-01 Keynote	Evolution of the NE Atlantic: A variety of all scale Plate Tectonic Processes	Jakob Skogseid	EG7-16	REE, Sr-Rb and Sm-Nd -isotopes for the hydrous anatectic anorthositic in the Skattøra migmatite complex, Norway	Rune S. Selbekk, Jesus D. De La Rosa Diaz, Hannu Huhma
16.20	ID2-16	Thermal evolution of the Devonian basins in western Norway, role of the Nordfjord Sogn Detachment	Souche, A., Andersen, T. B., Medvedev, S., Dabrowski, M.	EG8-02	Late Mesozoic- Cenozoic evolution of the conjugate Lofoten-Vesterålen and NE Greenland continental margin	Tsikalas, F., Faleide, J.J., Blaic O.A., Breivik, A.J., Mjelde, R., Eidholm O.	EG7-17	The western half of the Ofoten-Lofoten geotranssect	Steltenpohl, M.G., Hames, W.E., Key, T.B., Ball, J., and Kassos, G., Andresen, A., Anderson, M., Tveten, E., Braum, B.R., Braum, S.A. & Rehnström, E.F.
16.40	ID2-17	GPlates - Interactive software for plate tectonic visualisation and modelling	R.J.Watson, J.A.Boyden, M.Turner, J.A.Clark, J.S.Cannon, E.Lau, C.Gaina, M. Gurnis, R.D. Müller, T.H.Torsvik	EG8-03	A transpressional origin for the West Spitsbergen Fold and Thrust Belt: insights from analogue modelling	Karen Leever, Roy H. Gabrielsen, Jan Inge Faleide, Alvar Braathen, Dimitrios Sokoutis and Ernst Willingshofer	EG7-18	From ultra-high pressure (UHP) eclogite to lower greenschist facies within a ca 15 km cross section in the northwestern parts of the Western Gneiss Region, Norway	Johannes C. Vrijmoed and Torgeir B. Andersen
17.00				EG8-04	Assessing Plate Reconstruction Models using Continental Extension Predicted by Gravity Inversion for the Norwegian-Greenland Rifted Margins	A. Alvey, N.J. Kusznir, T.H. Torsvik, C. Gaina	EG7-19	Characteristics of a major Devonian extensional detachment on Spitsbergen – the Keiserhjelmen detachment	Alvar Braathen, Per Terje Osmundsen, Harmon Maher Jr.
17.20				EG8-05	The plume impact hypothesis: Role of pre-existing lithospheric structure in controlling the patterns of volcanism around the North Atlantic	John R. Hopper			
17.40				EG8-06	Reykjanes ridge evolution for the past 24 Ma. Propagating rifts and pulsing plume	Ármann Höskuldsson, Richard Hey, Fernando Martinez and Ásdís Benediktsson			
18.00									
19.30				Conference dinner					