

## ICAM III

Contributions to Thematic Sessions  
and order of talks

P = poster  
T = talk  
M = movie  
( ) = participation canceled

Plenary Lectures

- T I.S. Gramberg, G. Grikurov, V. Ivanov, Eu. Korago, M. Kos'ko, A. Piskarev, Yu. Pogrebitsky & O. Suprunenko  
**Eurasian Arctic Margin: Earth Science Problems and Research Challenges**
- T Y. Kristoffersen  
**The Eurasian Basin**

**Theme 1: Volcanic Provinces around the Eurasian Basin:  
Interplay with Tectonism**

*(Convenors: Olav Eldholm, Oslo; Wolfram Richter, Vienna, Alexander Tebenkov, Lomonosov)*

- T L.S. Lane, P.W. Layer, M.P. Cecile & M.K. Kos'ko  
**Ar-Ar ages from the Okhotsk-Chukotsk magmatic arc, northeast Russia**
- T A. Buechl  
**Petrological and geochemical analysis of Siberian continental flood basalts.**
- T T. Ntaflos & W. Richter  
**Continental flood basalts from Franz-Josef-Land, Russian Arctic: Geochemical evidence for bimodal magmatism.**
- T J. A. Tarduno  
**The High Arctic Large Igneous Province**
- T B. Natal'in, J. Toro & J. Amato  
**The origin of Cretaceous metamorphic core complexes in the Bering Strait area**
- T P. Grogan, K. Nyberg, B. Fotland, R. Myklebust, S. Dahlgren & F. Riis.  
**Cretaceous Magmatism south and east of Svalbard :evidence from seismic reflection and magnetic data.**
- T G. Manby, S.Estrada, M. Thirlwall, N. Lyberis & A.N. Baxter  
**Geochemical and isotopic constraints on the age and origins of Kap Washington Group volcanic rocks and related dykes of North Greenland.**
- P S. Estrada, A. Höhndorf & F. Henjes-Kunst  
**Cretaceous/Tertiary Volcanism in North Greenland**
- P E. Hellebrand  
**Melt-mantle interaction in plagioclase-bearing peridotites from Malloy Ridge, Mid-Atlantic Ridge near Spitsbergen.**
- P S. Hogden, H. Bungum & J.I. Faleide,  
**Cretaceous magmatism east of Svalbard - Detected by wide-angle seismic data**
- P O.N.Ivanov  
**Permanent-discrete polychrone volcanism of the subpolar region of the north-western segment of the peri-Pacific frame**
- P C. Jebsen & J.I. Faleide

**Tertiary rifting and magmatism at the western Barents Sea margin (Vestbakken Volcanic Province)**

P E. Korago, A. Tebenkov

**Magmatic suites of the Barents - north Kara Seas region in context of its neo-gaeen history**

P G. Manby, S.Estrada, M. Thirlwall, N. Lyberis & A.N. Baxter

**Geochemical and isotopic constraints on the age and origins of Kap Washington Group volcanic rocks and related dykes of North Greenland.**

**Theme 2: Aerogeophysics on the Eurasian Shelves:  
Signatures and Interpretations**

*(Convenors: Sergej Maschenkov, St. Petersburg; Ron MacNab, Dartmouth)*

T P.T. Taylor, D.E. Alsdorf, R.R.B. von Frese, H.R. Kim & J.J. Frawley

**Regional magnetic anomalies of the Arctic lithosphere**

T D. Steinhage, U. Meyer & D. Damaske

**First results of the aerogeophysical programme NOGRAM'98 in North Greenland and the adjacent Arctic Sea**

T A.M. Tebenkov, D.G. Gee & A.A.Krasilshchikov

**Sources of magnetic anomalies over Svalbard (Spitsbergen) and surrounding shelf**

T S. Aponov

**Magnetic Anomalies of the Barents and Kara Shelves as Evidence for Ancient Sea-Floor Spreading**

T L. A Lawver, J. M Brozena, L C Kovacs & V. Childers

**New Aerogeophysical Data Over the N.E. Siberian Arctic Margin**

P D.A. Forsyth, P. Keating, M. Pilkington, A.V. Okulitch & M.-C. Williamson

**Geophysical data from the Lincoln Sea: preliminary interpretations**

P D.A. Forsyth, P. Keating, M. Pilkington, A.V. Okulitch, G. Oakey, D. Damaske, F. Tessensohn, B. Nelson, D. Marcotte & D. Hardwick

**Some preliminary regional tectonic implications of features from the Canada-Germany Polar Margin Aeromagnetic Program (PMAP) over the Canada-Greenland margin**

P D.A. Forsyth, P. Keating, M. Pilkington, A.V. Okulitch, G. Oakey, D. Damaske, F. Tessensohn, B. Nelson, D. Marcotte & D. Hardwick

**The 1997 Canada-Germany cooperative aeromagnetic project over northwest Greenland and the Lincoln Sea**

P V.Yu. Glebovsky, L.C. Kovacs, S.P. Mashenkov & J.M. Brozena

**Joint compilation of Russian and US Navy aeromagnetic data in the Arctic**

P H R. Jackson, R A Scott, G N Oakey & R Macnab

**Circum-Arctic magnetic map with tectonic overlay**

P L. C Kovacs, J. M Brozena & L. A Lawver:

**The Naval Research Laboratory Arctic Aerogeophysics Program, 1992-1998**

P S.P.Mashenkov, V.Yu.Glebovsky, A.V.Zayonchek

**New digital compilation of aeromagnetic and gravity data over the north Eurasian shelf: technology of computer processing and interpretation**

P U. Meyer & T. Boebel

**NordGrav'97: An aerogeophysical survey over the Fram Strait and the Arctic Basin**

**Theme 3: Plate Boundary Problems in the Laptev Sea Area**

*(Convenors: Sergej Drachev, Moscow, Karl Hinz, Hannover; Sergej Sekretov, Murmansk)*

T V.Ivanov, B.Kim, M.Kos'ko, Eu.Musatov, O.Suprunenko, D.Yashin

**Laptev Sea Basin - a Key Region of the Eurasian Continental Margin: Main Features of Structure and Evolution**

T S. Drachev

**The Laptev Sea rifted continental margin: modern knowledge and unsolved questions**

T S.B.Sekretov

**Eurasian Basin - Laptev Sea geodynamic system: tectonic and structural evolution.**

T K. Hinz, M. Block, G. Delisle, D. Franke, M.K. Kos'ko, S. Neben, C. Reichert, H.A. Roeser & S. Drachev

**Deformation of continental lithosphere on the Laptev Sea shelf, Russian Arctic**

T A.L. Piskarev, H.A. Roeser, K. Hinz, M.K. Kos'ko

**The crustal structure of the Laptev Sea and the western part of the east Siberian Sea - Russian-German cooperative potential field studies**

T H.A. Roeser, K. Hinz, A.L. Piskarev & S. Neben

- Seafloor spreading at the transition from the Eurasia Basin to the Laptev Shelf**  
 T M.K. Kos'ko  
**Geodynamic settings in the Laptev Sea Region through Riphean, Paleozoic and Mesozoic times.**
- T D. Lazurkin & E. Musatov  
**Geological structure of the Laptev Sea shelf**
- T O.V. Grinenko  
**Cenozoic dislocations in eastern Yakutia (northeast Russia).**
- T Paech, H.-J., O.V. Grinenko, Prokoviev, A. & CASE-3 Team  
**New results on the Moma Rift and related structures in Yakutia, Russian Federation.**
- P G. P. Avetisov  
**Modern geodynamic conditions in the Laptev Sea as result of direct arrival of the Eurasia Basin rift zone onto the shelf.**
- P D. Franke & K.Hinz  
**Tectonics of the Laptev Sea region in north-eastern Siberia.**
- P S. Kovachev & I. Kuzin  
**The spatial distribution of earthquake foci and stress field in the earth's crust and upper mantle of the Buor-Khaya Bay (Laptev Sea) according to OBS observations**

#### **Theme 4: The Lomonosov Ridge: History, Boundaries, Function**

*(Convenors: Wilfried Jokat, Bremerhaven; Yngve Kristoffersen, Bergen; Mikhail Sorokin, Lomonosov)*

- T Y. Kristoffersen & W. Jokat  
**Lomonosov Ridge: lithosphere rifting and tectonic history of a continental fragment**
- T V.Poselov, S.Maschenkov, A.Pavlenkin, M.Sorokin, E.Astafurova, L.Poselova & V.Butsenko  
**Crustal structure beneath the Lomonosov Ridge and zones transitional to adjacent abyssal basins.**
- T B. Coakley & J. Cochran  
**Internal structure of the Lomonosov Ridge and relations with the Amerasian Basin from gravity anomaly and narrow-beam bathymetry data collected during SCICEX.**
- T A. Grantz, D. A. Willard, & D.L. Clark  
**Position of Devonian to Early Mississippian beds in the stratigraphy of Lomonosov Ridge near the North Pole, based on a piston core and the Polarstern seismic data**
- T B. Kim, V.Verba, V.Poselov, M.Sorokin & W.Jokat  
**New insights in composition and structure of the sedimentary cover on the Lomonosov Ridge.**
- T W. Jokat  
**Arctic-98-Alpha/Lomonosov ridges: Geophysical results**
- P I.V Belyaev, A.I. Atakov, S.M. Zholondz & N.N. Rjevsky  
**Isostatic response of the Arctic Mid-Ocean (Nansen) Ridge based on transfer function analysis of gravity and bathymetric data.**
- P V.A. Poselov, V.V.Butsenko & A.D.Pavlenkin  
**Alternative to the spreading nature of the Eurasian Basin (on the example of the Gakkel-Lomonosov geotransect).**
- P M.Yu. Sorokin, Yu.Ya. Zamansky, A.Ye. Langinen, H. Brekke, M. Sand & N. B. Sørenes.  
**Seismic reflection profile of the Arctic ice station NP28 from the Lomonosov Ridge to the Yermak Plateau.**

#### **Theme 5: The Barents Shelf and the Eastern Greenland Margin: A Comparison**

*(Convenors: Annik Myhre, Norway; Lars Stemmerik, Copenhagen)*

- T J.Skogseid  
**Atlantic conjugate margins and plate tectonics north of 70 deg. N.**
- T F. Thiedig  
**Affinities between Post Caledonian Successions of Svalbard and North Greenland.**
- T W. Buggisch  
**Paleomagnetic investigations in the Devonian of Svalbard and the Permo-carboniferous of NE Greenland (no abstract yet)**

- T A. Braun, G. Marquart & H. Schmeling  
**Finite element modelling of extensional margins and the evolution of lithospheric instabilities in the Norwegian-Greenland Sea**
- T J.I. Faleide, A.J. Breivik, R. Myklebust, P. Grogan, C. Jebsen, T.E. Sollesnes  
Andreassen, J. Skogseid, & A. Myhre  
**Continent-ocean transition along the western Barents Sea-Svalbard margin.**
- T T.Sakulina, M.Verba, V.Poselov & A.Telegin  
**Boundary Zone between the Baltic Shield and the Barents Sea Shelf Basin from Seismic Data along 1-AR Crustal Profile**
- T H. Dypvik  
**The Mjølnir impact: an important factor in Jurassic - Cretaceous sedimentation of the Paleoarctic Ocean**
- T A. Andresen & Hartz, E.H.  
**Proterozoic and Paleozoic evolution of the northeast margin of Greenland - From collapse basin to passive margin.**
- T W. Jokat  
**Structure of the North Greenland Shelf and the Fram Strait north of 80°N**
- T R. A. Scott  
**Continental fits and tectonic lineations in the North Atlantic — implications for paleogeographies and the connection between the Norwegian margin and East Greenland**
- P A. Breivik, J.I.Faleide & S.T. Gudlaugsson  
**Deep structure and basin formation in the SW Barents Sea**
- P W. Dallmann & A. Mørk  
**The new "Lithostratigraphic Lexicon of Svalbard**
- P H. Dypvik  
**The Mjølnir impact: an important factor in Jurassic - Cretaceous sedimentation of the Paleoarctic Ocean**
- P A. Mørk & M. Smelror  
**Correspondence of Circum-Arctic Mesozoic High Order Sequences**
- P M. Smelror, A. Mørk & E. Monteil  
**The Klippfisk Formation - Lower Cretaceous carbonate platform sediments of the Western Barents Shelf**
- P T.E. Sollesnes Andreassen, A. Myhre, J.I.faleide, P.rogan & R. Myklebust  
**Origin and Evolution of northwestern Svalbard margin and Yermak Plateau.**
- P M.A.K. Turton & R. A. Scott  
**Mesozoic tectonic events in the North Atlantic and Arctic, and the stratigraphic response in adjacent rift-flank basins**

**Theme 6: Eureka Tectonism in Canada, North Greenland, West Spitsbergen:  
Fold Belts Adjacent to Extensional Ocean Basins.**

*(Convenors: Wilfried Dallmann, Oslo; Ulrich Mayr, Calgary; Franz Tessensohn, Hannover)*

- T F.Tessensohn, W. von Gosen, H.-J. Paech, K. Piepjohn & F. Thiedig  
**An intracontinental fold belt at a passive continental margin: results of a CASE-study in Spitsbergen and North Greenland.**
- T K. L. Kleinspehn  
**Late Cretaceous-Holocene geodynamics of the Eurasian plate margin: the view from Svalbard**
- T S.G. Bergh, H. D. Maher, Jr. & A. Braathen  
**Along strike segmentation of Svalbard's Tertiary fold-thrust belt**
- T K. Saalmann & F. Thiedig  
**Structural evolution of the Tertiary West Spitsbergen Fold-and-Thrust Belt on Brøggerhalvøya, NW Spitsbergen**
- T H.-J.Paech,  
**Tertiary of Spitsbergen and North Greenland: its alpidic signature**
- T S. A. Schack Pedersen & Eckart Håkansson  
**The geotectonic significance of the Wandel Hav Strike-Slip Mobile Belt in eastern North Greenland.**
- T W. von Gosen & K. Piepjohn  
**Evolution of the Kap Cannon Thrust Zone (North Greenland)**
- T N. Lyberis & GM Manby  
**Some remarks on the Eureka deformation in north and north-eastern Greenland.**
- T K. Piepjohn & W. von Gosen  
**Polyphase Deformation along the eastern part of the Harder Fjord Fault Zone (North Greenland)**
- T A.V. Okulitch, J.C. Harrison & U. Mayr

- T **Plate Tectonic Setting of the Eurekan Orogen in Arctic Canada**  
Harrison, J.C., Mayr, U. & Okulitch, A.V.
- T **Detachment systems of the Eurekan Orogen**  
J. A. Tarduno
- T **Magnetostratigraphy of the Late Cretaceous to Eocene Sverdrup basin: Constraints on deformation associated with Greenland-North America relative motions**  
C. Lepvrier
- T **North drift of Greenland and timing of Eurekan tectonism**  
F. Tessensohn & K. Piepjohn
- T **Ridge push as possible cause for Eocene compressive deformation in Canada, North Greenland and Svalbard.**
- P S. Estrada
- P **Basaltic dykes in the Harder Fjord Fault Zone, Frigg Fjord area, North Greenland**  
J.C. Harrison, U. Mayr, D.H. McNeil, A.R. Sweet & D.J. McIntyre,
- P **Preliminary sequence correlation charts for the Tertiary of the Canadian arctic region**  
G.N. Oakey, C. Currie, and H.R. Jackson
- P **A geophysical map series of the Innuitian Province and Davis Strait: a GIS framework for constraining Cretaceous movements of Greenland.**  
K. Piepjohn & W. von Gosen
- P **The West Spitsbergen Fold-and-Thrust Belt from Isfjorden to Sørkapp Land - An overview from cross-sections.**  
K. Piepjohn, F. Tessensohn, C. Harrison & U. Mayr
- P **Involvement of a Tertiary foreland basin in the Eurekan Foldbelt deformation on Ellesmere Island, NW coast of Kane Basin, Canada**  
K. Saalman & F. Thiedig
- P **Structural evolution of the Tertiary West Spitsbergen Fold-and-Thrust Belt on Brøggerhalvøya, NW Spitsbergen**

#### **Theme 7: Problems of the Caledonian / Ellesmerian Junction**

*(Convenors: David Gee, Uppsala; Niels Henriksen, Copenhagen; Andrew Okulitch, Calgary)*

- T D. G. Gee
- T **Barentsia and the Caledonian Terranes of Northern Svalbard**  
A.K. Higgins, N.J. Soper & A.G. Leslie
- T **The Ellesmerian and Caledonian fold belts of North and North-East Greenland – a brief review**  
A.V. Okulitch
- T **The Caledonian Pearya Terrane of Northern Ellesmere Island, Canadian Arctic Archipelago.**  
F. Thiedig
- T **Relationship between the Pre-Devonian Basement of Svalbard, North Greenland and Pearya.**  
M.L.Verba, S.M.Zholondz & T.S.Sakulina
- T **Geophysical evidence of a Caledonian basement beneath the Barents Sea shelf**  
Å. Johansson, A. Larionov & J. Vestin
- T **Age of Grenvillian magmatism on Nordaustlandet, Svalbard, investigated by conventional U-Pb zircon and monazite dating, single zircon direct Pb evaporation dating, and ion microprobe U-Pb zircon dating**  
A. Larionov, A. M. Tebenkov, P. Witt-Nilsson & D. G. Gee
- T **Detrital zircon ages from the Planettjella Group of the Mosselhalvøya nappe, NE Spitsbergen, Svalbard.**  
A.M. Tebenkov
- T **Magmatism of Svalbard (Spitsbergen) in comparison with adjacent regions**  
K. Piepjohn
- T **New results on the extent and age of the Late Paleozoic Svalbardian deformation in NW Spitsbergen.**  
V. Schindwein & W. Jokat
- T **Caledonian and Ellesmerian fold belts of North Greenland in the light of aeromagnetic data.**  
F. Kalsbeek & H.F. Jepsen
- T **Precambrian evolution of North and North-East Greenland - crystalline basement and sedimentary basins**  
K. S. Frederiksen & M. Sønderholm
- T **Evolution of a late Proterozoic carbonate ramp (East Greenland): response to relative sea-level rise.**  
A. Jones & J. C. Escher.
- T **Complex Thickening History of the Caledonian Orogen during long-lived oblique convergence, NE Greenland**

- T J. A. Gilotti, J. M. Hull, J. D. Friderichsen & S. Elvevold  
**Caledonian eclogites along the Laurentian margin in North-East Greenland**
- T N. Henriksen & A. K. Higgins  
**The Lower Palaeozoic Franklinian Basin of North Greenland – a review**
- P Y. Daragan-Suschov. & A. Evdokimov  
**Caledonides of the North Atlantic: fold belt or epiplatform orogen.**
- P Y. Ohta, A.N. Larionov & A.M. Tebenkov,  
**Single-grain zircon ages from the crystalline rocks of NW Spitsbergen**
- P S. Sandelin, A. Teben'kov & D. G.Gee  
**The Neoproterozoic successions of western Barentsia from Central Nordaustlandet to eastern Ny Friesland, Svalbard**

**Theme 8: Polar Urals, Novaja Zemlya and Taimyr:  
The Northern Connection of the Uralides**

*(Convenors: Helmut Echtler, Potsdam; Valery Vernikovsky, Novosibirsk)*

- T D. G. Gee, L. Beliakova, A. Larionov, V. Pease & E. Dovzikova  
**Vendian granites in the Neoproterozoic basement beneath the Pechora Basin: New Pb/Pb evaporation ages.**
- T V.G.Olovjanishnikov, A.Siedlecka & D.Roberts  
**Aspects of the geology of the Varanger-Timan belt**
- T V.I. Ustritsky & G.E. Griukurov  
**Structural relationship between Novaya Zemlya, Pai-Khoi and the Urals**
- T Eu.Korago, G.Kovaleva & Yu.Pogrebitsky  
**The fold system of Novaya Zemlya as an Intracratonic continuation of the Urals suture**
- T B.G. Lopatin, L.G. Pavlov, V.V. Orgo & S.I. Shkarubo  
**Tectonic structure of Novaya Zemlya**
- T V.Martirisyan, R.Krylov, L.Popova & M. Vepreva  
**Novaya Zemlya: the Uralides on the Eurasian shelf and beyond?**
- T V. A. Vernikovsky  
**Taimyr fold area: evolution of the earth's crust and the main problems of tectonics**
- T D. G. Gee, R. A. Scott, T. H. Zorsvik & V. A. Vernikovsky  
**Taimyr and the Tectonic Evolution of the Eurasian Arctic High Seas**
- T A.Yu,Egorov  
**Upper Paleozoic and Triassic Sediments of the Taimyr Fold Area**
- T V.L.Pease & V.Vernikovsky  
**The Problem of Archean crust in the Central Belt of Taimyr: new ion microprobe data**
- P N.A. Bogdanov, V.E Khain, V.A. Vernikovsky, S.S. Drachev, S.L. Kostyuchenko, A.B. Kouzmichev, O.M. Rosen, S.B. Sekretov., B.V. Senin & E.V. Shipilov  
**Continental accretion in the Taymyr part of the Eurasian basin margin**
- P H.P. Echtler and the URSEIS working group  
**Geodynamics of Paleozoic orogenies, oblique collisions and preservation of lithospheric structures in the Uralides.**
- P I. Golubeva  
**Intrusive pyroclastic rocks (tuffisites, ignimbrites) of the Polar Urals**
- P L. Makhlaev  
**The Granites of the Polar Urals: origin, tectonic position, age.**
- P D.N.Remizov  
**Magmatism and geodynamic evolution of the Polar Ural**
- (P) V.I.Silaev, M.Yu.Sokerin  
**Indications of an ensimatic island arc of the Silurian - early-Devonian paleo-ocean in the Polar Urals**
- P O.V.Udoratina  
**Alkaline Metasomatites of the Polar Urals**
- P A. E. Vernikovskaya & V. A. Vernikovsky  
**Taimyr Precambrian ophiolites: tectonic setting, petrology and geochemistry**

**Theme 9: Hydrocarbon Potential of the Eurasian Margins:  
Geological and Tectonic Factors**

(Convenors: Ian Norton, Houston; Mikhail Kos'ko, St. Petersburg; Tony Dore, London)

- T I. Gramberg, O. Suprunenko, E. Bro, N. Evdokimova, V. Ivanov, B. Kim, M. Kos'ko, D. Lazurkin, V. Suslova, N. Ustinov, Yu. Shipelkevich, D. Yashin  
**Oil and gas potential of the Eurasian continental margin: geological and tectonic constraints**
- T Yu.K.Burlin & B.A.Sokolov  
**Asymmetry of the Arctic sedimentary megabasin and its reflection in oil-gas distribution on its borderlands**
- T V.S.Vishnevskaya & N.A.Bogdanov  
**Some palaeogeographic factors for hydrocarbon prognosis of the North Eurasian margins**
- T A.V.Stoupakova & T.A.Kiryukhina  
**Tectonic Factor of basin development and hydrocarbon potential of the Western Arctic margins.**
- T N.K. Evdokimova, M.L. Verba, O.I. Suprunenko & A.I. Atakov  
**Influence of Mesozoic and Cenozoic igneous activity on the hydrocarbon potential of the Barents Sea shelf**
- T S.B. Sekretov  
**Potential of Laptev Sea basins for petroleum content: geological, tectonic and geodynamic factors.**
- T B. Cramer  
**Light hydrocarbons in sea water and near surface sediments of the Laptev Sea**
- T Yu.V.Shipelkevitch V.V.Kudel'kin, V.F. Kruglyak & I.V.Shipelkevitch  
**Structure, evolution and hydrocarbon potential of sedimentary basins on the Russian Chukchi shelf**
- P A.M.Pystin & I.V.Zaporozhtseva  
**A model of the Precambrian crustal structure in the Arctic part of the European craton**
- P S.B.Sekretov  
**Northwestern margin of the East Siberian sea: structure, sedimentary basin development and hydrocarbon possibilities.**

#### **Theme 10: Metallogenic Provinces in the Circum-Arctic Region**

(Convenors: Kirill Simakov, Magadan; Volker Steinbach, Berlin)

- T M. Pedersen & A. Boyce  
**Insight into origin of black shale-hosted lead and zinc occurrences in the Upper Permian Ravnefjeld Formation, central East Greenland**
- T A.Ivanova, V.Ushakov, G.Cherkashov, A.Smirnov  
**Placer minerals on the continental margin of the Russian Arctic.**
- T J. E. Gray, C. A. Gent, and L. W. Snee  
**The southwestern Alaska mercury belt and its relationship to the circum-Pacific metallogenic mercury province**
- P Y.L. Belkina, G.P. Bystrova, V.K. Gavrilov, A.Yu. Egorov, L.V. Zobotkin, L.M. Natapov, Y.N. Rodnov, V.J. Smolenkov & L.S. Simonova  
**Metallogenic map of the former USSR on a plate-tectonic base**
- (P) V.Yu.Fridovsky  
**Metallogenic provinces in the Arctic region of northeast Russia**
- (P) V. S. Grinenko  
**Key processes in the formation of gold mineralization in the central part of the Verkhoyansk fold-and-thrust belt (East Yakutia)**
- P. A.V.Prokopyev & V.Yu.Fridovsky  
**Structure and gold mineralization of the Verkhoyansk fold-and-thrust belt (Northeast Russia)**
- P J.R. Riehle & D.A. Singer  
**Geologic Factors Bearing on the Origin of the Unga Island Gold-Vein Deposits, Alaska**
- P A.Sagir  
**Ancient deep-reaching fractures of the earth's crust in northeastern Yakutia, their subsequent regeneration and characteristic occurrence under different geodynamic conditions**
- P V.I.Silaev & L.V.Vedernikova  
**Epithermal complexes of the Mesozoic stage in post-collisional extension in the Polar Urals**

**Theme 11: Cenozoic Sedimentary Archives of the Eurasian Marginal Seas: Sampling, Coring and Drilling Programmes.**

*(Convenors: Heidi Kassens, Kiel; Rüdiger Stein Bremerhaven, Jörn Thiede, Bremerhaven)*

- T I. Andreeva, D. Fuetterer, H. Kassens, B. Kim, V. Kosheleva, E. Musatov, F. Niessen, V. Petrova, R. Stein, B. Vanshtein, D. Yashin  
**Lithology of Upper Quaternary veneer and Late Cenozoic paleogeography of the Laptev Sea Margin**
- T R. F. Spielhagen, N. Nørgaard-Pedersen, H. Erlenkeuser, F. Schulze, P. W. Grootes & J. Heinemeier  
**Deglacial freshwater outflow across the Laptev Sea and its possible role in global change**
- T H. A. Bauch, H. Kassens, H. Erlenkeuser, R. F. Spielhagen, J. Thiede & P.M. Grootes  
**Holocene sedimentation history of the Laptev Sea shelf: Implications of sea-level changes in the Arctic**
- T Ye.I. Polyakova  
**Eurasian marginal seas during the Late Cenozoic (diatom stratigraphy and paleoceanography)**
- T E. Taldenkova  
**Late Cenozoic interactions between the Arctic and Pacific Oceans**
- T V. Gataullin, L. Polyak & A. Rybalko  
**Sea floor topography of the Eastern Barents Sea shelf: Implications for the study of Quaternary glaciations and depositional history.**
- P B. Boucsein, K. Fahl, J. Knies, J. Matthiessen & R. Stein  
**Reconstruction of organic carbon deposition along the Laptev Sea continental margin**
- P S.-O. Bude  
**Benthic foraminiferal assemblages in the Laptev Sea, Siberian Arctic: Recent distribution**
- P F. A. Butt, A. Solheim, A. Elverhoi & C. F. Forsberg  
**Glacial Evolution of the western Svalbard-Barents Sea margin through Plio-Pleistocene**
- P V.A. Kosheleva, D.S. Yashin & E.E. Musatov  
**On the volumes of terrigenous discharge in the Laptev Sea.**
- P C. Müller, H.-P. Kleiber, J. Knies, J. Matthiessen, F. Niessen & R. Stein  
**Late Quaternary sedimentation processes and paleoenvironmental development along the Laptev Sea continental margin**
- P J. Matthiessen, M. Kunz-Pirrung, K. Fahl, R. F. Spielhagen & R. Stein  
**Aquatic palynomorphs as tracers for changes in surface water conditions at the Laptev Sea continental margin during the last deglaciation**
- P F. Schoster & R. Stein  
**Diagenetic processes in sediments of the eastern Arctic Ocean - A geochemical approach**

**Theme 12: Gashydrates and Permafrost, Onshore and Offshore**

*(Convenors: Georg Delisle, Hannover; Hans Hubberten, Potsdam, Nicolai Romanovsky, Moscow)*

- T A.Soloviev & G. D.Ginsburg  
**Methane in gas hydrates and permafrost on the Arctic continental margin - a quantitative assessment**
- T V. E. Romanovsky & T. E. Osterkamp  
**Gas hydrate stability zone dynamics and global climate change**
- T G.S.Tipenko, N.N.Romanovskii & A.L.Kholodov  
**Simulation of offshore permafrost and gas hydrate stability zone: mathematical solution, numerical realization and preliminary results**
- T F. Are & E. Reimnitz  
**Cryogenic processes of Arctic land-ocean interactions**
- T G.Ginsburg, O.Yakovlev & A.Novozhilov  
**Potential gas hydrate accumulations in north-west Siberian and western Yenisey-Khatanga basins**
- T E. Reimnitz  
**Close-up look at a retreating Arctic coastal site**
- T H.-W. Hubberten & N.N. Romanovskii  
**The evolution of onshore and offshore permafrost of the Laptev Sea region during the Late Pleistocene-Holocene glacial-eustatic cycle: the state of current investigations**
- T K. Hinz, M. Block, G. Delisle, D. Franke & S.Neben  
**Seismic evidence for the extent of permafrost in shelf sediments of the Laptev Sea.**



- T A.L. Kholodov, N.N. Romanovskii, G.S. Tipenko, A.V. Gavrilov, S.S. Drachev & H. Kassens  
**Modelling the thickness of the submarine cryolithozone on the Laptev Sea shelf**
- T G. Delisle  
**Temporal variability of submarine permafrost and gas hydrate occurrence as function of climate change in the Laptev Sea, Siberia**
- T N.N. Romanovsky, A.V. Gavrilov, V.E. Tumskey, A.V. Sher, Ch. Siegert & H.-W. Hubberten  
**Environmental evolution in the Laptev Sea region during the Late Pleistocene and Holocene**
- T S. Neben, H.A. Roeser, B. Cramer & G. Delisle  
**Acoustic images from the seafloor of the Laptev and East Siberian Sea: Pockmarks, ice gouging and other bathymetric features**
- T E. Sundvor, O. Eldholm & P.R. Vogt  
**Haakon Mosby Mud Volcano and Svalbard/Barents Sea continental margin heat flow.**
- P E.M. Chuvilin, V.S. Yakushev & E.V. Perlova  
**Study of gas and gas hydrate deposits in permafrost at the Yamal Peninsula.**

**Theme 13: The Amerasian Basin and Margins:  
New Developments and Results**

*(Convenors: Ashton Embry, Calgary; Dennis Thurston, Anchorage)*

- T Bogdanov N.A.  
**Tectonic position of the Amerasian Basin**
- T A. Grantz & P. E. Hart  
**Significance of the structure and stratigraphy of Canada Basin and the Chukchi Borderland for the tectonic development of the Amerasia Basin, Arctic Ocean**
- T J.M. Brozena, L.C. Kovacs & L.A. Lawver  
**An Aerogeophysical Study of the Southern Canada Basin**
- T S.P. Mashenkov, A.V. Zayonchek & E.G. Astafurova  
**Thickness of the earth's crust in the Amerasian Basin from 3D gravity modeling**
- T L. S. Lane  
**Latest Cretaceous - Early Tertiary deformation in northern Yukon and adjacent Alaska: response to Eurasia - North America convergence**
- T A. F. Embry  
**Counterclockwise rotation of northern Alaska – best available model or untenable hypothesis for the origin of the Amerasia Basin**
- T R. Stephenson, F. Beekman & L. Lane  
**A numerical model of the structural and tectonic controls on the origin of the Oligocene Tarsiut-Amauligak fault zone, south-eastern Beaufort Sea**
- T R. Stephenson & E. Smolyaninova  
**Neotectonics and seismicity in the south-eastern Beaufort Sea, polar continental margin of north-western Canada**
- T J.A. Dumoulin, D.C. Bradley, A.G. Harris & J.E. Repetski  
**Sedimentology, conodont biogeography, and subsidence history of the Nixon Fork Terrane, Medfra Quadrangle, Alaska**
- P A.V. Zayonchek, V.A. Childers, E.D. Daniel, S.P. Maschenkov, L.C. Kovacs & J.M. Brozena.  
**Joint analysis of on-ice gravity, aerogravity and digital bathymetry data in the Amerasian basin.**

**Theme 14: Circum-Arctic Margins: the Search for Fits and Matches.**

*(Convenors: Michael Cecile, Calgary; David Stone, Fairbanks; Larry Lawver, Austin)*

- T M. Cecile, A.K. Khudoley, M.K. Kos'ko & L.S. Lane  
**Lower Paleozoic rocks around today's Arctic Ocean: Two ancestral continents, an ancestral Arctic ocean, and Paleozoic collision?**
- T M.K. Kos'ko, V. Yu. Glebovskiy, E.A. Korago, S.P. Maschenkov, A.L. Piskarev, Yu.V. Shipelkevich, O.I. Suprunenko, V.V. Verba, A.V. Zayonchek  
**Tectonic basement of the Eurasian Arctic shelf: Structural and compositional features.**
- T D.B. Stone, K. Fujita, P.W. Layer & L.M. Parfenov  
**Tectonic History of Northeast Russia: Paleomagnetic and Geologic Constraints on Terrane Accretion.**

- T A.N. Didenko & G.Ye. Bondarenko  
**Omolon block in the Mesozooids of NE Russia: autochthonous or allochthonous?**
- T G.Ye. Bondarenko, V.A. Shekhovtsov, S.P. Glotov & O.L.Morozov  
**South Anyui paleobasin: a link between the Pacific and the Urals-Taimyr Ocean in Pz-Mz time**
- T A. F. Embry  
**Tectonic Implications of large-scale Jurassic-Cretaceous sequence boundaries in the Circum-Arctic**
- T Larry S. Lane  
**"Fixist" origin for Arctic Alaska: the Rodinia reconstruction**
- T J.A. Dumoulin, A.G. Harris & T.A. de Freitas  
**Facies patterns and conodont biogeography in Arctic Alaska and the Canadian Arctic Islands: evidence against juxtaposition of these areas during early Paleozoic time**
- T S. L. Kostiuhenko, A.V. Egorkin & L.N. Solodilov  
**Crustal tectonics of the peri-Arctic continental basins within Russia based on combined seismic and non-seismic data**
- T E.E.Musatov, Yu.E.Pogrebitskyi, P.V.Rekant & A.S.Roudoi  
**Evolution of the western Arctic continental margin of Russia**
- T Malyshev N.  
**Tectonic evolution of the Pechora Basin**
- T J. - M. Thery  
**Bibliographical contribution to the understanding of Arctic Ocean aperture with the knowledge of the Kolyma-Omolon block zone (Far Eastern Siberia) - a possible link with global cosmical events from the Devonian and Permian till the Lower Cretaceous.**
- P A, Egorov, G. Bondarenko, T. Borisova, M.Gertseva & M. Kononov  
**Main suture zones and Paleozoic-Mesozoic paleo-reconstructions of northern Eurasia**
- P V.G. Olovyanishnikov  
**A model of the upper Riphean stromatolitic formation of the Timans**
- P A.V. Prokopiev  
**Structure of Verkhoyansk-Chersky orogenic belt (north-east Asia)**

### Theme 15: Geodynamics of the Arctic Region

*(Convenors: Arthur Grantz, Palo Alto; Larry Lane, Calgary)*

- T A.Pavlenkin, Yu.Pogrebitsky, V.Poselov & V.Butsenko  
**Structure of the Arctic lithosphere from deep seismic sounding data**
- T Yu.Pogrebitsky, V.Verba, Yu.Goryachev & A.Trukhalev  
**Geological models of the contact area between oceanic and continental lithosphere in the Arctic basin**
- T S. Laxon, D. McAdoo & A. Grantz  
**Arctic marine gravity from ERS altimetry: Constraints on the structure and tectonic history of the Canada and Eurasian Basin**
- T J. Cochran & B. Coakley  
**Structural Inheritance Observed in the Eurasian Basin from Gravity Anomaly and Narrow-Beam Bathymetry Data Collected During SCICEX**
- T E. Weigelt & W. Jokat  
**Crustal topography and thickness of the central Amundsen Basin and south-western Eurasian Basin**
- T S.B.Sekretov  
**Southeastern Eurasian Basin termination: structure and key episodes of tectonic history.**
- T M.Yu. Sorokin, Yu.Ya. Zamansky, A.Ye.Langinen, H.R. Jackson & R.F. Macnab  
**Crustal structure of the Makarov Basin from seismic refraction data**
- T W. R. Roest, S. P. Srivastava & G. N. Oakey  
**Arctic plate tectonics: constraints from Labrador Sea and North Atlantic**
- T V.A. Zakharov, N.I. Kurushin, B.N. Shurygin, Y.I. Bogomolov, O.S. Dzjuba, V.I. Iljina, N.K. Lebedeva, S.V. Meledina, B.L. Nikitenko, O.V. Khomentovsky & O.V. Jasikova  
**The integrity of the Arctic oceanic basin through Mesozoic time: paleontological arguments**
- T J. Golonka  
**Geodynamic evolution and paleogeography of the circum-Arctic margins**
- T W. Harbert, P.Kepezhinskas, R.Saltus, K.A. Krylov, S. D. Sokolov, V. N. Grigoriev & R. S. Anderson  
**Terrane analysis of Kamchatka, Russia: constraints from digital residual magnetics, ERS-1 SAR, and digital elevation models.**
- T P. Mann  
**Geosat gravity anomalies of the sea of Okhotsk: Opening by longterm backarc extension behind the Kamchatka-Kuril arc system.**
- M W. Harbert

**Late Cretaceous to present northern Pacific basin terrane, motion and accretion--the movie.**

- P E.D.Daniel & S.P.Mashenkov  
**New computer-derived bathymetry model of the north Eurasian shelf**
- P S. Laxon, D. McAdoo & A. Grantz  
**Arctic marine gravity from ERS altimetry: Constraints on the structure and tectonic history of the Canada and Eurasian Basin**
- P The IASC/IOC/IHO Project Group for Arctic Bathymetry  
**Building a modern bathymetric data base for the Arctic.**
- P I.S. Gramberg, A.A. Komaritzyn, G.D. Naryshkin, V.D. Fomchenko & B.S.Fridman  
**Bathymetric Map of the Arctic Ocean, 1 : 5 000 000.**
- P I.Gramberg, V.Verba, M.Verba & M.Kos'ko  
**Sedimentary cover of the Arctic basin - a circumpolar perspective**
- P K. G. Mackey, K. Fujita, D.B. Stone, B. M. Koz'min & L.V. Gunbina  
**Present-Day Plate Tectonic Synthesis of Northeastern Russia**