Chapman Conference on Large-scale Volcanism in the Arctic: The Role of the Mantle and Tectonics

Conveners

Owen Anfinson
Sonoma State University
Rohnert Park, California, USA

Bernard Coakley
University of Alaska
Fairbanks, Alaska, USA

Carmen Gaina
Center for Earth Evolution and Dynamics
Oslo, Norway

Grace Shephard
Center for Earth Evolution and Dynamics
Oslo, Norway

Program Committee

Theme I: Rift-related magmatism

Jan Inge Faleide
CEED, University of Oslo, Norway

Bryndis Brandsdottir
University of Iceland, Reykjavik, Iceland

Theme II: Seafloor spreading and ridge related magmatism

Peter Michael
University of Tulsa
Tulsa, Oklahoma, USA
Vera Schlindwein  
Alfred-Wegener-Institut  
Bremerhaven, Germany

**Theme III: Large-scale volcanism and the connection to mantle dynamics**

Mike Coffin  
University of Tasmania  
Hobart, Tasmania, Australia

Marina V. Luchitskaya  
Russian Academy of Science  
Geological Institute of the Russian Academy of Sciences  
Moscow, Russia

**Theme IV: Subduction-related volcanism**

Elizabeth Miller  
Stanford University  
Stanford, California, USA

Justin Strauss  
Dartmouth College  
Hanover, Massachusetts, USA

**Theme V: HALIP and environmental effects**

Frances Deegan  
University of Uppsala  
Uppsala, Sweden

Morgan Jones  
CEED, University of Oslo  
Oslo, Norway

**Field trip and Iceland geology**

Rikke Pedersen  
University of Iceland  
NordVulk, Rejkjavik, Iceland

Reidar Trønnes  
CEED, University of Oslo  
Oslo, Norway
Scientific Program

SUNDAY, 13 OCTOBER

6:00 p.m.– 6:30 p.m.  Icebreaker Talk

Grand Hall

John Anthony Tarduno | The High Arctic Large Igneous Province and the Deep Mantle (Invited)

6:30 p.m.– 7:30 p.m.  Icebreaker Reception

MONDAY, 14 OCTOBER

8:45 a.m.– 10:45 a.m.  Large-Scale Volcanism and the Connection to Mantle Dynamics I

Grand Hall

Conveners: Mike Coffin, Marina Luchitskaya

8:45 a.m. –9:15 a.m.  Peter E van Keken | Origin of LLSVPs, mantle plumes, and mantle heterogeneity (Invited)

9:15 a.m. –9:30 a.m.  Alain Murphy | Amerasia Basin: A mantle plume driven ocean basin.

9:30 a.m. –9:45 a.m.  Joseph Biasi | Rapid and Frequent Flood Basalt Eruptions: Evidence from the North Atlantic Igneous Province and the Columbia River Basalts

9:45 a.m. –10:15 a.m.  Christian Tegner | Mantle and crust dynamics of the High Arctic Large Igneous Province (Invited)

10:15 a.m. –10:30 a.m.  John Shimeld | Tectono-magmatic elements of the Alpha Ridge and possible associations with the High Arctic Large Igneous Province

10:30 a.m. –10:45 a.m.  Sondre Krogh Johansen | Late Mesozoic magmatism in the northern Barents Sea
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<td>10:45 a.m.– 11:15 a.m.</td>
<td><strong>Break</strong></td>
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<td>11:15 a.m.– 12:45 p.m.</td>
<td><strong>Large-Scale Volcanism and the Connection to Mantle Dynamics II</strong></td>
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<td><strong>Marie-Claude Williamson</strong></td>
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2:45 p.m. – 3:00 p.m. **Samuel Mukasa** | Integration of dredged submarine rock samples and seismic reflection profiles reveals mid-Cretaceous rifting, uplift, and two pulses of basaltic volcanism on Chukchi Borderland and Alpha Ridge, Amerasia Basin

3:00 p.m. – 3:15 p.m. **Grace E Shephard** | Updated tectonic reconstructions of the Cretaceous Arctic: Digital plate model and applications.

3:15 p.m. – 3:30 p.m. **Sten-Andreas Grundvåg** | Late Jurassic to Early Cretaceous sedimentary response to opening of the Amerasian Basin and HALIP activity in Svalbard

3:30 p.m. – 4:00 p.m. **Break**

4:00 p.m. – 5:30 p.m. **Rift-Related Magmatism III Posters**

*South Hall*

Conveners: Jan Faleide, Bryndís Brandsdóttir

Board 1 **Alexander Minakov** | Stress and deformation analysis in the Barents Sea in relation to Paleogene transpression along the Greenland-Eurasia plate boundary

Board 2 **Andrei K Khudoley** | Late Devonian Magmatism in the North-East Siberia: Northern Continuation of the Yakutsk-Vilyui LIP

Board 3 **Aline Caroll Ploetz** | Local Seismicity in the SW Laptev Sea Rift

Board 4 **Andrey A. Chernykh** | The Arctida breakup and the HALIP formation – what is the linkage?

Board 5 **Antonia Stefanie Ruppel** | Combined aeromagnetic and structural studies along the continental margin of NE Greenland

Board 6 **Antonia Stefanie Ruppel** | Integrated geophysical and structural geological studies along the Vendom Fiord Fault Zone, Ellesmere Island, Nunavut, Canada

Board 7 **Ivan Sobolev** | Carboniferous magmatism of the Polar Urals (the first results of the $^{40}$Ar / $^{39}$Ar dating of dikes and sills of the Musyur complex)
Board 8  | Kai Berglar | Structure of the NE Greenland sheared margin

Board 9  | Margaret Odlum | Thermal record of deformation, exhumation, and fluid-rock interactions along the Billefjorden Fault Zone, Pyramiden, Svalbard

Board 10  | Andrey V. Prokopiev | The middle Palaeozoic stage of mafic magmatism and evolution Vilyui palaeorift basin (eastern Siberian platform)

Board 13  | Aleksandr Dmitrievich Savelev | The Early Cambrian magmatism of the north-east Siberian platform (Neleger River area).

4:00 p.m.– 5:30 p.m.  | Large-Scale Volcanism and the Connection to Mantle Dynamics III Posters

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Board 11  | Christoph Beier | Geochemical Constraints on Plume-Ridge Interaction along the Southern Kolbeinsey Ridge

Board 12  | Alexander Minakov | How Do Tectonic Stresses and Lithospheric Heterogeneity Control Large-Scale Volcanism in High Arctic?

Board 14  | Thomas Funck | Seismic Imaging of Alpha Ridge and the Magmatic Overprinting of the Adjacent Lomonosov Ridge and Marvin Spur

Board 15  | Asbjorn J Breivik | Dynamic topography development north of Iceland from subaerial exposure and erosion of the igneous Logi Ridge

Board 16  | Victor Abashev | Paleomagnetism and Geochronology of Flood Basalts from the Franz Josef Land Archipelago

Board 17  | Dmitry V. Metelkin | New Isotope-Geochemical, $^{40}$Ar/$^{39}$Ar and Paleomagnetic Data for Basalts from the Franz Josef Land Archipelago: Comparison with HALIP and the Siberian LIP
Board 18  Eric L Brown | Constraining Mantle Source Conditions Beneath Iceland Using Markov Chain Monte Carlo Inversion

Board 19  John R Hopper | Sediment thickness, crustal thickness, and residual topography of the North Atlantic: estimating dynamic topography around Iceland

Board 21  Yu Lu | Crustal magmatism and lithospheric geothermal state of Arctic region

Board 23  Sergey Malyshev | Mesoproterozoic magmatism of the Udzha paleo-rift (Northern Siberian Craton) based on geochimical and palaeomagnetic data.

Board 24  Eemu Ranta | Volatile characteristics of an EM-type mantle component in Iceland

Board 25  Xenia Boyes | Characterising a new suite of Baffin Island lavas

TUESDAY, 15 OCTOBER

9:00 a.m.– 10:30 a.m.  Rift-Related Magmatism I
   Grand Hall
   Conveners: Jan Faleide, Bryndís Brandsdóttir

9:00 a.m. –9:30 a.m.  Dieter Franke | Polyphase magmatism during breakup of the NE Greenland margin (Invited)

9:30 a.m. –9:45 a.m.  Karsten Piepjohn | The Eurekan deformation – a reconstruction of the Cenozoic deformation in the Arctic based on geological and structural field data and observations

9:45 a.m. –10:00 a.m.  Lotte Melchior Larsen | Petrology of Paleocene Basalts in the Davis Strait: Voluminous, High-Temperature Melt Generation at a Transform Margin

10:00 a.m. –10:15 a.m.  Charles E Lesher | The East Greenland flood basalts: The importance of melt mixing for the compositional variability
during the rift-to-drift transition in the North Atlantic Large Igneous Province

10:15 a.m.–10:30 a.m. **Jan Inge Faleide** | Quantification and Restoration of Pre-drift Extension across NE Atlantic Conjugate Margins

10:30 a.m.–11:00 a.m. **Break**

11:00 a.m.–11:30 a.m. **Rift-Related Magmatism II**

*Grand Hall*

Conveners: Jan Faleide, Bryndís Brandsdóttir

11:00 a.m.–11:15 a.m. **H Ruth Jackson** | Paleogeographic Consequences of Plate Reconstructions in the Arctic Region

11:15 a.m.–11:30 a.m. **Micah Mayle** | Using geodynamic models to constrain mantle sources for syn-extensional magmatism

11:30 a.m.–11:45 a.m. **Peter Klitzke** | The Olga Basin in the northern Norwegian Barents Sea (Arctic) – a Caledonian or Timanian affinity?

11:45 a.m.–12:00 p.m. **Asta Rut Hjartardottir** | The Mid-Iceland Volcanic Zone – A Sign of a Rift Relocation in Action?

12:00 p.m.–12:15 p.m. **Anett Blischke** | Tectono-magmatic evolution of the Jan Mayen microcontinent and Iceland plateau

12:15 p.m.–12:30 p.m. **Discussion**

12:30 p.m.–1:30 p.m. **Lunch**

1:30 p.m.–3:00 p.m. **Seafloor Spreading and Ridge-Related Magmatism I**

*Grand Hall*

Conveners: Peter Michael, Vera Schlindwein

1:30 p.m.–2:00 p.m. **Lynne J Elkins** | A review of magma generation beneath North Atlantic mid-ocean ridges (*Invited*)

2:00 p.m.–2:15 p.m. **Marianne Richter** | Evidence for a paleo-subduction zone under the western Gakkel Ridge, Arctic Ocean
2:15 p.m. – 2:30 p.m.  
**Peter J Michael** | High H2O and Large Ion Lithophile Elements in Basalts from the Western Volcanic Zone of Gakkel ridge: a subduction signature?

2:30 p.m. – 2:45 p.m.  
**Alexandra Yang Yang** | Mid-ocean ridge basalts with subduction-related signatures from the Gakkel Ridge

2:45 p.m. – 3:00 p.m.  
**WITHDRAWN**  
**Steven L Goldstein** | Diverse Mantle Source Components Revealed by Shallow Secondary Melts along the Gakkel Ridge

3:00 p.m. – 3:30 p.m.  
**Break**

3:30 p.m. – 5:00 p.m.  
**Rift-Related Magmatism III Posters**  
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Board 25  
Xenia Boyes | Characterising a new suite of Baffin Island lavas

5:00 p.m.– 6:00 p.m.  
Discussion  
*Grand Hall*

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**WEDNESDAY, 16 OCTOBER**

9:00 a.m.– 10:30 a.m.  
Seafloor Spreading and Ridge-Related Magmatism II  
*Grand Hall*  
Conveners: Peter Michael, Vera Schlindwein

9:00 a.m. –9:30 a.m.  
Charles H Langmuir | Ocean Ridge Perspectives on and from the Arctic *(Invited)*

9:30 a.m. –9:45 a.m.  
Jonathan E Snow | Gakkel Ridge Gabbros Reflect Distinct WVZ-SMZ Melting Regimes

9:45 a.m. –10:00 a.m.  
Rüdiger Lutz | Mantle exhumation in the Eurasia Basin since the early evolution of the slow spreading Gakkel Ridge
10:00 a.m. – 10:15 a.m.  Pall Einarsson | Magmatic riftting episode at Krafla 1975-1984, a model for riftting in Iceland

10:15 a.m. – 10:30 a.m.  Bernard Coakley | The Tectonics of Ultra-slow Seafloor Spreading as a Constraint on the Formation of the Canada Basin

10:30 a.m. – 11:00 a.m.  Break

11:00 a.m. – 12:00 p.m.  Discussion

Grand Hall

12:00 p.m. – 9:00 p.m.  Field Trip to Western Rift Zone

THURSDAY, 17 OCTOBER

9:00 a.m. – 10:30 a.m.  Subduction-Related Volcanism I

Grand Hall

Conveners: Elizabeth Miller, Justin Strauss

9:00 a.m. – 9:30 a.m.  Vyacheslav V Akinin | Magmatism in North Eastern Russia: An Update and Overview (Invited)

9:30 a.m. – 9:45 a.m.  Richard O Lease | Distal Tephra in Arctic Alaska Throughout 117 to 68 Ma: Zircon U-Pb Geochronology, Abundance, and Inferred Source

9:45 a.m. – 10:00 a.m.  Marina Valentinovna Luchitskaya | Granitoids and dike complexes of Cape Svyatoi Nos, Verkhoyansk-Kolyma fold area, Laptev - East-Siberian seas region: U-Pb SIMS zircon data, geochemical affinity and geodynamic setting

10:00 a.m. – 10:15 a.m.  Victoria Pease | Triassic-Jurassic Island Arc Magmatism: A pre-Canada Basin framework

10:15 a.m. – 10:30 a.m.  Andrew J Schaeffer | Examining the crust and mantle structure surrounding the Beaufort Sea, western Canadian Arctic
10:30 a.m.–11:00 a.m. **Break**

11:00 a.m.–12:30 p.m. **Subduction-Related Volcanism II**  
*Grand Hall*  
Conveners: Elizabeth Miller, Justin Strauss

11:00 a.m.–11:30 a.m. **Jaime Toro** | *Plate tectonic interactions along the northern Pacific-Arctic margin and their implications for magmatism and deformation (Invited)*

11:30 a.m.–11:45 a.m. **Justin Vincent Strauss** | On the pre-Carboniferous evolution of the North Slope of Arctic Alaska with implications for circum-Arctic paleogeographic reconstructions

11:45 a.m.–12:00 p.m. **Andrey V. Prokopenov** | New data on geochemistry, age and geodynamic settings of felsic and mafic magmatism of the northeastern part of October Revolution Island (Severnaya Zemlya Archipelago)

12:00 p.m.–12:15 p.m. **Victoria Ershova** | The link between Paleozoic magmatism and tectonics of the western Russian Arctic

12:15 p.m.–12:30 p.m. **Elizabeth L Miller** | Magmatism and Rifting in the Arctic: A Pacific Margin Perspective

12:30 p.m.–1:30 p.m. **Lunch**

1:30 p.m.–3:15 p.m. **HALIP and Environmental Effects II**  
*Grand Hall*  
Conveners: Frances Deegan, Morgan Jones

1:30 p.m.–1:45 p.m. **Deborah R Hutchinson** | USGS T-3 Ice Island Marine Heat Flow Data for the Amerasian Basin of the Arctic Ocean

1:45 p.m.–2:15 p.m. **Jennifer M Galloway** | Environmental effects of the High Arctic Large Igneous Province: Land and Marine Impacts *(Invited)*
2:15 p.m. – 2:30 p.m.  **Michael Arthur Pointon** | They came from near and far: altered volcanic ash layers within the Late Cretaceous Kanguk Formation, Sverdrup Basin

2:30 p.m. – 3:00 p.m.  **Thea Hatlen Heimdal** | Thermogenic gas release from CAMP as a trigger for the end-Triassic crisis (Invited)

3:00 p.m. – 3:15 p.m.  **Eivind Olavson Straume** | Cenozoic paleobathymetry of the Atlantic-Arctic oceanic gateways: Iceland plume pulsations and implications on paleo-ocean circulation

3:15 p.m. – 3:45 p.m.  Break

3:45 p.m. – 5:00 p.m.  **Seafloor Spreading and Ridge-Related Magmatism III Posters**

*South Hall*

Conveners: Peter Michael, Vera Schlindwein

**Board 1**  
**Michaela Meier** | Earthquake Distribution Along an Entire Ridge Segment of the Ultraslow Spreading Knipovich Ridge

**Board 2**  
**Hanchao Jian** | Magmatic crustal accretion at the ultraslow spreading Southwest Indian Ridge segment at 50°28’E

**Board 3**  
**Carmen Gaina** | The Crust and Upper Mantle of the Eurasia Basin Revealed by Geophysical Data and Mantle Tomography Models

**Board 4**  
**Marie-Andrée Dumais** | Magnetization Process of the Knipovich Ridge – New Data and Preliminary Results

3:45 p.m. – 5:00 p.m.  **Subduction-Related Volcanism III Posters**

*South Hall*

Conveners: Elizabeth Miller, Justin Strauss

**Board 5**  
**Román Alvarez** | Subduction of the Rivera Plate Under North America Induces Rifting at the NW and SE Boundaries of the Jalisco Block

**Board 6**  
**Elena Vladimirovna Vatrushkina** | Late Jurassic-Early Cretaceous suprasubduction volcanism on the south of the Chukotka margin
Board 7  **Antonina E. Vernikovskaya** | The Oldest Island Arcs in the Arctic: Neoproterozoic Subduction Related Volcanism in Taimyr

Board 8  **Mikhail Yu Kurapov** | New data on the Triassic Granitic Magmatism of Northern Taimyr

Board 9  **Artem V Moiseev** | Volcanogenic-sedimentary rocks of the Cape Svyatoi Nos, Verkhoyansk-Kolyma fold area, Laptev – East-Siberian seas region: geochemical affinity and geodynamic setting

Board 10  **Owen Anthony Anfinson** | Provenance analysis of the Devonian Andrée Land Basin, Svalbard

Board 11  **Tomas N Capaldi** | Cordilleran magmatism and tectonic evolution of the western South American plate margin

Board 12  **Wei Gong** | Subduction dynamics of the New-Guinea-Solomon arc system: Constraints from the subduction initiation of the plate

Board 13  **Junhui Xing** | Observation and Data Analysis of Submarine OBS Natural Seismic Events in Arctic Channel Area

**3:45 p.m.– 5:00 p.m.** **HALIP and Environmental Effects III Posters**

*South Hall*

Conveners: Frances Deegan, Morgan Jones

Board 14  **Nikola Koglin** | Zircon Grains from Serpentinite of the Voykar Massif, Polar Urals: Trace Elements, U-Pb and Lu-Hf Isotopic Data

Board 15  **Kim Senger** | Early Cretaceous dolerites in Spitsbergen: a virtual field trip to the most accessible HALIP exposures

Board 16  **Evgeny Petrov** | Large Arctic mafic provinces and MZ₂–KZ post-orogenic basite magmatism evolution of Barents-Kara region

Board 17  **Oleg V Petrov** | New Tectonic Map of the Arctic
Board 18  
**Erica Massey** | Geochemical-Textural Analysis of Palagonitized Basaltic Glass in a Lapilli Tuff Dredged From the Alpha Ridge, Arctic Ocean

Board 19  
**Morgan T. Jones** | Ashlantic: A multi-proxy approach to unravelling the relationship between the North Atlantic Igneous Province and the Paleocene-Eocene Thermal Maximum

Board 20  
**Sverre Planke** | HALIP Implications for Early Cretaceous Sedimentation in the Barents Sea

**FRIDAY, 18 OCTOBER**

9:00 a.m.– 10:30 a.m.  
**Seafloor Spreading and Ridge-Related Magmatism III Posters**  
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Conveners: Peter Michael, Vera Schlindwein

Board 1  
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**Hanchao Jian** | Magmatic crustal accretion at the ultraslow spreading Southwest Indian Ridge segment at 50°28'E

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Board 4  
**Marie-Andrée Dumais** | Magnetization Process of the Knipovich Ridge – New Data and Preliminary Results

9:00 a.m.– 10:30 a.m.  
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10:30 a.m.– 11:00 a.m. Break

11:00 a.m.– 12:00 p.m. Discussion

12:00 p.m.– 1:00 p.m. Lunch

SATURDAY, 19 OCTOBER

8:00 a.m.– 9:00 p.m. Field Trip to South Iceland Seismic Zone and Eastern Volcanic Zone (Optional)

SUNDAY, 20 OCTOBER

8:00 a.m.– 3:00 p.m. Field Trip to Reykjanes Peninsula (Optional)
The conference organizers acknowledge the following sponsors for their generous support:

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