

Preliminary Schedule
AGU Chapman Conference on
Active Tectonics and Seismic Potential of Alaska
Alyeska Resort, Girdwood, Alaska, USA
11-14 May 2006

Thursday, 11 May

Time	Speaker	Title
08:30-10:00	Conveners	Welcome
	Conveners	Preview of Conference How the conference will work and schedule
	Participants	Introductions of Participants Each participant will introduce him/herself and indicate what he or she hopes to get out of the conference
	Conveners	Charge to Participants
10:00-10:30	Participants	Break, Theme I Posters set up
10:30-12:00	George Plafker	Keynote Address: The Great 1964 Alaska Earthquake as a Model for Tsunami Generation During Megathrust Earthquakes with Examples from Chile and Sumatra
		Questions and Discussion
12:00-13:30		Lunch (on your own)
Theme I: Alaska-Aleutian Arc Tectonics and Great Earthquakes		
13:30-14:00	Gary Carver	Paleoseismicity and Neotectonics of the Alaska-Aleutian Subduction Zone: An Overview
14:00-14:30	Goran Ekstrom	Earthquakes in Alaska and Along the Aleutian Arc
14:30-15:00	Participants	Introductions to Posters 1 minute/poster
15:00-17:00	Participants	Theme I Poster Session Refreshments available
17:00-19:30		Dinner (on your own)
19:30-20:30	Participants	Icebreaker/Informal Discussions
20:30	Participants	Theme I posters removed, Theme II posters set up

Theme I Chairs: Roger Hansen, Geoff Abers, Rod Combellick

Friday, 12 May

Theme II: The St. Elias Orogen and Yakutat Block, the Yakataga Gap, and the Southeast Alaska Transform Margin		
08:30-08:50	Terry Pavlis	Global Perspective on Mountain Building and the STEEP Project
08:50-09:10	Ron Bruhn	Geology of the Saint Elias Orogen
09:10-09:30	Chris Larsen	Geodesy and Seismology of the Saint Elias Orogen and Southeastern Alaska
09:30-10:00	Participants	Introductions to Posters 1 minute/poster
10:00-12:00	Participants	Theme II Poster Session Refreshments available
12:00-13:30		Lunch (on your own)
13:15-13:30	Participants	Theme II posters removed, Theme III posters set up
Theme III: The Denali Fault System, the Foothills Fold and Thrust Belt, Interior Alaska and Cook Inlet		
13:30-14:00	Peter Haeussler,	Interior Alaska Neotectonics: Far-field Deformation From the Yakutat Microplate Collision
14:00-14:30	Natasha Ruppert	Interior Alaska Seismicity and the Denali Fault Earthquake
14:30-15:00	Participants	Introductions to Posters 1 minute/poster
15:00-17:00	Participants	Theme III Poster Session Refreshments available
18:00-20:00		Banquet Dinner with Guest Lecture: The Effect of Mountains and Earthquakes on the Human History of Alaska
20:00-21:00	Participants	Informal Discussions
21:00	Participants	Theme III posters removed

Theme II Chairs: Terry Pavlis, Ron Bruhn
Theme III Chairs: Peter Haeussler, David Schwartz, Roger Hansen

Saturday, 13 May

08:30-18:30	Field Trip box lunch provided	
Stop 1	Terry Palvis Peter Haeussler	Turnagain Pass – Geology of the Chugach Accretionary Complex
Stop 2	Jeff Freymueller	Seward-Kenai Highway Junction – Geodetic Observations above the Megathrust
Stop 3	Elena Suleimani Peter Haeussler	Seward Waterfront – The 1964 Tsunamis and Damage
Stop 4	Rod Combellick Ian Shennan	Ames Bridge Near Kenai – Paleoseismology of Megathrust Earthquakes
Stop 5	Ron Bruhn Peter Haeussler Ray Wells	Kenai or Neotectonics of the Cook Inlet Basin, Forearc Crustal Structure and Asperities
18:30	Participants	Theme IV posters set up
18:30-20:30		Dinner (on your own)
20:30	Participants	Informal Discussions

Sunday, 14 May

Theme IV: Regional Integration, and Application of Current Seismotectonic Hypotheses to Alaska		
09:00-09:30	Participants	Introductions to Posters
09:30-11:30	Participants	Theme IV Poster Session
11:30-12:30	Bill Ellsworth	Recurrence, Renewal and Forecasting Future Earthquakes
12:30-13:30		Lunch (on your own)
13:30-15:15	Theme V: Critical Tests, Observations and Experiments and Theme Overviews	
	Graduate Student Presenters	Overview Presentation for Theme I, followed by open mic
	Graduate Student Presenters	Overview Presentation for Theme II, followed by open mic
	Graduate Student Presenters	Overview Presentation for Theme III, followed by open mic
	Graduate Student Presenters	Overview Presentation for Theme IV, followed by open mic
15:15-15:30		Break
15:30-16:00	Jeff Freymueller	Summary Presentation
16:00-16:15	Rob Wesson	Next Steps
16:15	Participants	Adjourn, Theme IV posters removed

Theme IV Chairs: Rob Wesson, Jeff Freymueller
Theme V Chairs: Jeff Freymueller, Ron Bruhn

**Poster Session: Theme I: Alaska-Aleutian Arc Tectonics and Great Earthquakes,
Thursday, 11 May 15:00-17:00**

First Author	Invited/Contributed	Title
G Carver	Invited	Paleoseismic and Geodetic Evidence for Active Strike-Slip Faulting, Eastern Kodiak Island, Alaska
C Chan*	Contributed	Possible Role of Prince William Sound Megathrust Earthquakes in Controlling the Timing and Location of Great Denali Fault Ruptures
R Cross*	Contributed	Velocity Estimation of the Andean Block of the Aleutian Arc by Subduction Zone Modeling Using GPS Data
M Fischer	Invited	Active Tectonics and Deep-Crustal Structure of the Continental Margin Beneath Prince William Sound and the Northernmost Gulf of Alaska
T Fournier*	Contributed	Tectonic and Volcanic Deformation at Veniamin of Volcano Alaska
G Fryer	Invited	Great Tsunamis but Not-So-Great Earthquakes in the Shumagin and Unimak Segments?
R Hansen	Invited	Seismicity Studies Along the Alaska-Aleutian Arc
L Krutikov*	Contributed	Strain Accommodation Along an Oblique Subduction Zone: Seafloor Deformation Patterns in the Central Aleutian Forearc
M Nedimvic	Contributed	Megathrust Seismic Hazards by Reflection Mapping
C Peterson*	Contributed	Non-Volcanic Tremor in the Alaska/Aleutian Subduction Zone
C P Rajendran	Invited	The Deformational Characteristics and the Recurrence Pattern of the December 26 2004 Indian Ocean Earthquake
K Rajendran	Contributed	Do the Historic Ruptures Along the Andaman-Sumatra and Makran Subduction Zones Signal Future Great Earthquakes?
I Shennan	Invited	Coseismic And Pre-Seismic Subsidence Associated With Late Holocene Great Earthquakes in South Central Alaska
E Suleimani	Contributed	Tsunami Inundation Mapping and Hazard Risk Assessment for Alaska Coastal Communities
R Wells	Contributed	Great Megathrust Earthquakes of the Alaska-Aleutian Arc and Their Relation to Crustal Structure Revealed by Satellite Free-air Gravity
G Albers	Contributed	Deep Subduction of Thickened Crust Beneath Alaska: Observations and Implications
D Doser	Invited	Seismicity of the South-Central Alaska Subduction Zone and its Relation to Upper and Lower Plate Structure
D Stone	Contributed	Block Rotation and Translation of the Aleutian Forearc: An Analysis of Paleomagnetic Data From the Aleutian and Komandorski Islands

Poster Session: Theme II: The St. Elias Oregon and Yakutat Block, the Yakataga Gap, and the Southeast Alaska Transform Margin
Friday, 12 May 10:00-12:00

First Author	Invited/Contributed	Title
J Chapman*	Contributed	Tectonic Geomorphology in an Active Orogen Dominated by Glacial Erosion, Saint Elias Mountains, Alaska
D Christensen	Contributed	Imaging the Transition From Aleutian Subduction to Yakutat Collision in Central Alaska, With Local Earthquakes and Active Source Data
J Elliott*	Contributed	Untangling the Tectonics of the Saint Elias Orogen, Alaska Using GPS
R Headley*	Contributed	The Spatial Distribution of Glacial Erosion: A First-Order Approach
R Hyndman	Invited	Queen Charlotte Margin Structure, Recent Tectonics, and Current Deformation From GPS and Seismicity
J Spotilla	Invited	Recent Exhumation in the Chugach, St. Elias, and Fairweather Ranges, Alaska: A Summary of Current Knowledge
P Koons	Invited	Numerical and Analog 3D Models of the Crustal Evolution of Southeast Alaska
C Larsen	Invited	The Yakutat Corner
L Lowe*	Invited	Seismicity Patterns and High Resolution Bathymetry Constrain Extent of Deformation in Yakutat Microplates Leading Edge
S Mazzotti	Invited	Seismic and GPS Strain Distribution Across the Saint Elias Collision Zone and the Northern Cordillera
A Meigs	Invited	Crustal Shortening, Exhumation, Foreland Basin, Climate and Topographic Development Associated With Yakutat Terrane Accretion to Southern Alaska
Y Merrand*	Contributed	Glacier Erosion and Convergent Tectonics in Southern Alaska
J Sauber	Contributed	Ice Mass Fluctuations and Earthquake Hazard
M Vorkink*	Invited	Along Strike Variation in Structural Style Within the Yakutat Terrane and Active Deformation in the Saint Elias Mountains, Alaska
W Wallace	Invited	A Record of Syn-depositional Fold Growth in the Latest Cenozoic Yakataga Fold-and-Thrust Belt
W Thatcher	Invited	A Geologic and Seismologic Re-Evaluation of the 1899-1900 Yakutat Bay, Alaska Earthquakes
R Motyka	Contributed	Post Little Ice Age Rebound in Southeast Alaska and its Impact on Regional Tectonics
R Hansen	Invited	Relocation Studies of the Southcentral Alaska Seismicity Augmented with the STEEP Portable Seismic Network
I Shennan	Invited	Holocene Sea-Level Changes and Earthquakes Around Bering Glacier

Poster Session: Theme III: The Denali Fault System, the Foothills Fold and Thrust belt, Interior Alaska and Cook Inlet
Friday, 12 May 15:00-17:00

First Author	Invited/Contributed	Title
J Beget	Contributed	Age of Recent Movement on the Western Denali Between Broad Pass and Mt. McKinley Based on Dendrochronologic and Lichenometric Dating
S Bemis*	Invited	Overview of the Quaternary Structure and Deformation of the Northern Foothills Fold and Thrust Belt, Central Alaska Range, Alaska
J Benowitz*	Invited	Differences in Average Slope Angles as Evidence of Varying Uplift Rates in the Eastern Alaska Range
G Carver	Invited	Late Quaternary Growth of Thrust Faults and Associated Folds in the Eastern Part of the Northern Foothills Fold and Thrust Belt, Central Alaska Range, Alaska
D Ward*	Contributed	Quantifying Deformation Rates in the Alaska Range Foothills Through Dating of Progressively Deformed Steam Terraces
J Dortch*	Invited	Terrestrial Cosmogenic Nuclide Surface Exposure Dating of Moraines and Terraces in the Nenana Valley, Northern Slopes of the Alaskan Range: A Model for Dating Dynamic Surfaces for Neotectonic Studies
A Freed	Contributed	Stress-Dependent Power-Law Flow in the Upper Mantle Following the 2002 Denali, Alaska, Earthquake
J Freymueller	Contributed	The Denali Fault and the Counter-clockwise Rotation and Westward Extrusion of Southern Alaska
P Haeussler	Invited	Uplift of the Tordrillo Mountains, the Kahiltna Piggy-Back Basin, and Active Tectonics of the Western Alaska Range
R Jibson	Invited	What can the Landslides Triggered by the 2002 M-7.9 Denali Fault Earthquake, Alaska, Tell Us About the Strong Shaking?
S Personius	Contributed	Preliminary Paleoseismology of the Susitna Glacier Fault, Central Alaska Range, Alaska
G Plafker	Invited	Historic and Paleoseismic Evidence for Non-Characteristic Earthquakes and the Seismic Cycle at the Delta River Crossing of the Denali Fault, Alaska
T Redfield	Contributed	Escape Tectonics and Plate Kinematics in the South Central Alaskan Orocline
K Ridgeway	Contributed	Geomorphic Evidence of Active Transpressional Deformation in the Tanana Foreland Basin, South-central Alaska
K Ridgeway	Contributed	Stratigraphic and Provenance Record of Neogene Foreland Basin Development, Tanana Basin, Central Alaska Range
N Ruppert	Invited	Analysis of the Aftershock Sequence of the 2002 Mw7.9 Denali Fault, Alaska Earthquake
D Schwartz	Invited	The Earthquake History of the Denali Fault System, Alaska: Filling a Blank Canvas with Paleoequakes

G Seitz	Contributed	Chronological Constraints on the Paleoseismology of the Denali Fault System
J Willis*	Contributed	Active Tectonics of the Susitna River Basin, Alaska -- Intraplate Deformation Driven by Microplate Collision and Subduction
S Sil*	Contributed	Response of the Groundwater Wells in Alaska to Near and Distant Large Earthquakes

Poster Session: Theme IV: Application of Current Seismotectonic Hypotheses to Alaska: Paradigms, Regional Integration and Problems
Sunday, 14 May 10:30-12:30

First Author	Invited/Contributed	Title
G Fuis	Invited	Crustal Evolution as Seen in a Transect Across Alaska, From Pacific to Arctic Margins
R Haugerud	Contributed	High Resolution Topography as a Tool for Studying Active Tectonics: An example From Western Washington
M Jadamec*	Contributed	Building a Geodynamic Model of Alaska
D Christensen	Contributed	Mantle Anisotropy Beneath the Alaska Range Inferred From S-wave Splitting Observations: Results From BEAR
L Wolf	Contributed	Seismic Velocity Structure of Accretionary Terranes in South Central Alaska
P Burns	Invited	The Alaska Quaternary Fault and Fold Database: Status, Progress and Plans
J Freymueller	Contributed	Alaska Crustal Motion Map
N Ruppert	Contributed	Stress Map for Alaska from Earthquake Focal Mechanisms
D Scholl	Invited	Exploring the Notion That Entrance of the Yakutat Block into the Eastern Alaska Subduction Zone Accelerated Escape Tectonism Southwestward Toward the Aleutian Subduction Zone
R Wesson	Contributed	Shear Stress Along the Denali Fault Prior to the 2002 Earthquake
O Boyd	Contributed	Comparison of Time-independent and Time-dependent Probabilistic Seismic Hazard Maps for Alaska
C Bufe	Contributed	Fault Interaction in Alaska: Coulomb Stress Transfer, Stress Migration, and Periodic Triggering
R Harris	Contributed	Large Earthquake Behavior: Lessons to be Learned From Alaska
J Hardebeck	Contributed	Influence of Coseismic and Postseismic Stress Changes From the 2002 M7.9 Denali Earthquake on Time-Dependent Earthquake Probabilities in Alaska

Student presenters are marked with an asterisk (*).