



Geothermal Prospects of Mt. Spurr, Alaska

Brigitte Martini
Ormat Technologies, Inc.
Reno, Nevada

*Note: AGS meetings will be at the BP Energy Center for 2009-2010.
Please check the website (www.alaskageology.org) and issues of the AGS newsletter for updates.
This newsletter promotes the April luncheon talk of the Alaska Geological Society,
to be held Thursday, May 20th, at the BP Energy Center.*

This is the final AGS Newsletter prior to our summer hiatus. Note that an election ballot is enclosed in this Newsletter. Please take the time to return your ballot or vote at the may luncheon.

Also note the GSA / AGS Annual Picnic announcement enclosed in this newsletter. Please take the time to RSVP.

Unfortunately, we do not have an abstract or speaker biography for the May luncheon. For information on geothermal company Ormat Technologies see www.ormat.com.

AGS Luncheon

Date & Time: Thursday, May 20th, 11:30 am – 1:00 pm

Program: Geothermal Prospects of Mt. Spurr

Speaker: Brigitte Martini

Place: BP Energy Center

Reservations: Please make your reservation before noon Tuesday, May 18th, 2010.

Cost: Seminar only, no meal: Free
Reserve a box lunch: \$13
Nonmember: \$15

Reserve a hot lunch: \$20
Nonmember: \$22

No reservation: add \$5 to the above
(on an "as-available" basis only)

E-mail reservations: vp@alaskageology.org
Or phone (907) 269-8673
(Ken Helmold, AGS VP)

For more information: visit the AGS website:

www.alaskageology.org

Education Opportunities:

Alaska Geographic and the Murie Science and Learning Center invite lifelong learners and educators to participate in an exciting summer seminar in Denali National Park and Preserve. Two of these courses have a geology focus and all courses are accredited through the University of Alaska. Group size is limited to 10, so register today!

Highlighted below are the courses with a geology focus. For a complete listing of our 28 accredited courses or for more information, please visit www.alaskageographic.org or www.murieslc.org.

2010 Geology Teacher Training

July 19 - 21: Geology of Denali

Denali's dramatic landscape has been sculpted and scoured by glaciers, rivers, landslides, tectonics, and climate. Join National Park Service Geologist Phil Brease and Education Specialist Kristen Friesen for an introductory course on Denali's geology. We will spend our days hiking on slopes and ridges learning how geologists study the Earth to uncover the historical story of the landscape around us. We'll also investigate the recent discoveries of dinosaur footprints in Denali and discuss the impact these discoveries may have on our understanding of the world we live in today. Throughout the course, we'll brainstorm ways to implement this information into our teaching while sharing geology resources and activities for students in Kindergarten through 12th grade. This course will be based from our field camp located 29 miles inside the park along the Teklanika River.

2010 Geology Field Seminar

June 12 & 13: Geology of the Nenana Canyon

The glacial-fed Nenana River slices a path across the Denali fault and carves one of the most beautiful canyons in the state. With Denali National Park Geologist Phil Brease and the Denali Outdoor Center, we will explore this fault line and river, and learn how they determine the shape of this landscape. The first day we will explore the road corridor by van, hiking and investigating outcroppings and land features. Day two, we'll take to the river as a modern-day John Wesley Powell, floating down 20 miles of river through glacial valleys into the spectacular Nenana Canyon.

From the President's Desk

AGS is finishing another successful season of Luncheon seminars and community outreach. I want to thank the board of directors for contributing to AGS's ongoing improvements. We had a fantastic line up of talks this year and a terrific Technical Conference due to the efforts of Ken Helmold. Our scholarship program got a significant boost in

The Alaska Geological Society

LUNCHEON SCHEDULE 2009 - 2010

Updates on the web at:

<http://www.alaskageology.org>

September 2009	Thurs., Sept. 17 th , Paul O'Sullivan, Apatite to Zircon, Inc., Timing of Brooks Range Uplift and Denudation: A Summary of Fission Track Results Over the Last 25 Years.
October 2009	Thursday, Oct. 15 th , Steve Wright, Chevron, Cook Inlet Gas Shortage: Fact of Fiction?
November 2009	Thursday, Nov. 19 th , Stephen Hubbard, University of Calgary, High Relief Clinoform Development
December 2009	Thursday, Dec. 10 th , John Howell, University of Bergen, Laser Scanning and Geological Modeling.
January 2010	Thursday, Jan. 21 st , William Morris / Mark Scheihing, ConocoPhillips Alaska, Inc., Tanqua Karoo, South Africa
February 2010	Thursday, Feb. 18 th , Mark Myers, State of Alaska; Geoscience, Ideology, and the Politics of Energy
March 2010	Thursday, March 18 th , Pat Druckenmiller, UAF, Mesozoic Marine Reptiles
April 2010	Thursday, April 15 th , Don Gautier, USGS, Circum-Pacific Resource Assess.
May 2010	Thursday, May 20 th , Brigitte Martini, Ormat, Geothermal Prospects of Mt. Spurr

For more information or to register:

- ❖ go to www.murieslc.org or www.alaskageographic.org
- ❖ email courses@murieslc.org
- ❖ call 1-888-688-1269.

Courses offered by Alaska Geographic in partnership with the National Park Service through the Murie Science and Learning Center.

finances as a result of the dedication of Sue Karl, Al Hunter, Laura Silliphant and all of you who contributed. I am hopeful that our coffers for this worthy cause will continue to grow in the coming years – we are set up for it.

Jana DaSilva Lage carried the outreach on her own shoulders all year and oversaw multiple events that help fulfill AGS's mission. Al Hunter has provided leadership in managing our funds – he also has great ideas for the coming year. David Hite really stepped up to the plate and took on the administration of the forthcoming joint conference (2011). The rest of the board spent worthy hours debating our various issues over the year and play a huge role in keeping us vibrant and healthy. We are striving to re-instate of Field Trip Program under the direction of Tom Plawman. I also want to extend gratitude to Greg Wilson for producing the AGS newsletter every month, on time, and nicely organized. Great work Greg.

I look forward to a successful completion of the year's activities and participating on the board next year under the leadership of Tom Morahan.

I also want to extend my gratitude to you, the membership, for being active in your society - keep it up!

-Tom

AGS SCHOLARSHIP NEWS

The Don Richter Memorial Scholarship Committee is pleased to announce the selection of a candidate for 2010. The committee received many applications from Alaska and the lower 48 states for the scholarship. All defined excellent research projects in Alaska, so the decision was difficult. The committee selected Julie Elliott, a PhD candidate at the University of Alaska in Fairbanks. Julie's project, "Active Tectonics of Southeast and Southcentral Alaska Constrained by GPS" examines the collisional boundary between the Pacific plate, the southern Alaska block, and the Yakutat block. Repeated GPS measurements over several years at about 70 sites in the Chugach and Saint Elias Mountains allow Julie to identify boundaries of the blocks, key structures, and investigate how the structures accommodate relative plate motion. Julie received an Alaska Geological Society scholarship in 2009, and the Richter scholarship committee determined that she deserved continuing support. She is nearing completion of her dissertation and we anticipate several insightful and enlightening publications from Julie in the near future.

The Alaska Geological Society offers scholarship awards to graduate and undergraduate students who are conducting geoscience research projects in Alaska

including

Alaska Geological Society Scholarships
The Don Richter Memorial Scholarship



Scholarship information and applications are available online at
www.alaskageology.org

The Alaska Geological Society, Inc.
P.O. Box 101288
Anchorage, Alaska 99510

*The Alaska Geological Society is a 501c3 nonprofit organization
Donations to these scholarship funds are tax deductible*

182 WELL NORTH SLOPE - BEAUFORT SEA BIOSTRATIGRAPHIC DATABASE OF INTEGRATED FORAMINIFERA & PALYNOMORPH ZONE TOPS

Excel spreadsheet format on CD. Color-coded paleoenvironments (water depths)

In addition, for 85 Proprietary Wells included are: Integrated, Foram & Paly Summaries, Hi-Res Biostratigraphic Plots with diversity/abundance, cumulative faunal & floral displays & graphic biofacies plots.

For more information, list of wells, & price contact:
Micropaleo Consultants - (760) 942-6082 or micropaleo@cox.net
Hideyo Haga - (619) 421-1692 or hhpaleo@cox.net



MICROPALÉO
CONSULTANTS

**Alaska Geological Society
May 2010, Election Ballot
for Officers and Board Members**



AGS Officers

President Elect – William (Bill) Morris
(President for 2011-2012)

Vice President – Ken Helmold

Secretary – Chad Hults

Treasurer – Al Hunter –

Write-in Candidate(s)

Position and Name

Write-in Candidate(s)

Position and Name

2010-2012 Board Members (vote for two)

Board Member – Kirk Sherwood

Board Member – Lisa Wright

2010-2012 AAPG Delegate

(only Active AAPG members may vote for the AAPG delegate)

AAPG Delegate – Arlen Ehm

Please mail your ballot by May 20, 2010:

Alaska Geological Society PO Box 101288
Anchorage, Alaska 99510

or bring it to the Thursday May 20, 2010
AGS Annual Meeting and Luncheon

**Annual GSA/ AGS Picnic
Wednesday, May 26, 4-9 PM
Kincaid Chalet Picnic Shelter**

\$7.50 for individuals / \$20 for families

Please join us for this great family event including food, music and playground equipment. There's plenty of room, so bring your Frisbees and other sports equipment.

RSVP at the Geophysical Society website: <http://gsa.seg.org/index.html>

Purchase tickets at the picnic.

*Sponsored by CGG/Veritas, GeoKinetics, WesternGeco,
Schlumberger and ARCIS*

Meeting Information

The **American Geological Institute** provides a comprehensive list of national and international geoscience meetings at: <http://calendar.agiweb.org>

Local Meetings:

American Water Resources Association—Alaska Section

<http://www.awra.org/state/alaska/index.html>

Alaska Geological Society

<http://www.alaskageology.org>

Lunch meetings are held monthly September through May in Anchorage. For more information, contact Jim Clough, 451-5030.

Alaska Miners Association

<http://www.alaskaminers.org/>

The Anchorage branch of the AMA holds weekly meetings at 7 AM every Friday at the Denny's on Northern Lights and Denali. They hold regular luncheon meetings in association with SME. For more information, contact the AMA office at 563-9229.

American Institute of Professional Geologists

<http://www.aipg.org>

AIPG holds regular quarterly evening Section meetings in Anchorage and Fairbanks. For more information contact Mark Lockwood, President, at Shannon & Wilson, Inc., in Fairbanks, 907-458-3142.

Chugach Gem & Mineral Society

<http://www.chugachgms.org>

CG&MS holds all meetings at the First United Methodist Church on 9th Avenue. Contact their hotline at 566-3403 for information on regular monthly business meetings, monthly potlucks, and guidebook sales, including the new Alaska Rockhound Guidebook.

Geophysical Society of Alaska

<http://gsa.seg.org/>

Luncheon meetings are held monthly September through May at the ConocoPhillips Tower. For more information, contact Phil Rorison, 265-6321

Society of Petroleum Engineers

<http://alaska.spe.org/>

For more information, contact Jack Hartz at 375-8239.

UAS Environmental Science Program

<http://www.uas.alaska.edu/envs>

National Association of Geology Teachers (NAGT)

<http://www.nagt>

Enhanced Alaska Digital Well Log Data Since 1989

OCS, 95 out of 100 Alaska OCS wells. Mud logs for some. North Aleutian Basin wells, onshore and offshore. North Slope, 556 wildcats and key field wells. Kuparuk River Field, first 567 wells drilled (pre-1985). Southern Alaska, 1063 wells including all wildcats and many field wells. Directional surveys for most.

All digital log files

- Are depth shifted to match resistivity curves.
- Have core data rendered as a depth-shifted well log curve.
- Have SP both in original form and as a straightened curve.
- Have standardized mnemonics.
- Have Volume of Shale curves, derived from gamma ray for North Slope, derived from SP for Cook Inlet.
- Allow you to specify your own choice of mnemonics before delivery.
- Are updated periodically with new wildcat wells.
- Are delivered in LAS 2.0 format.

Contact Dan Shier:

303-278-1261

dan@rockypine.com

www.rockypine.com



SYNERGY ENERGY

Weatherford
LABORATORIES

At Weatherford Laboratories, we provide a single source for comprehensive laboratory analyses, creating a synergy previously unknown in laboratory services. This single source supplies the broadest portfolio of services for acquiring and interpreting data from physical samples worldwide. The end result is more precise development planning and reduced reservoir uncertainty.

Put our union of Synergy and Energy to work for you.

Weatherfordlabs.com

NORTH AMERICA NAInquiries@weatherfordlabs.com	EUROPE LATIN AMERICA	ASIA PACIFIC MIDDLE EAST/NORTH AFRICA
---	---------------------------------------	--

The Alaska Geological Society, Inc.
P.O. Box 101288
Anchorage AK 99510

On the web at: <http://www.alaskageology.org>

The Alaska Geological Society is an organization which seeks to promote interest in and understanding of Geology and the related Earth Sciences, and to provide a common organization for those individuals interested in geology and the related Earth Sciences.

This newsletter is the monthly (September-May) publication of the Alaska Geological Society, Inc. Number of newsletters/month: ~300

EDITOR
Greg Wilson
ConocoPhillips Alaska, Inc.,
P.O. Box 100360
Anchorage AK 99510-0360
e-mail: Gregory.c.wilson@conocophillips.com
(907) 263-4748 (office)

MEMBERSHIP INFORMATION

AGS annual memberships expire November 1. The annual membership fee is \$15/year. You may download a membership application from the AGS website and return it at a luncheon meeting, or mail it to the address above.

Contact membership coordinator Mark Olson with changes or updates (e-mail: gregory.c.wilson@conocophillips.com; phone: 907-263-4690)

All AGS publications are now available for on-line purchase on our website. Check to see the complete catalogue.
<http://www.alaskageology.org/publications>

ADVERTISING RATES

Advertisements may be purchased at the following rates:
1/10 Page--\$150/9mo, \$60/1mo; size=1.8 x 3.5 inch
1/4 Page--\$300/9mo, \$75/1mo; size=4.5 x 3.5 or 2.2 x 7.5 inch
1/3 Page- \$375/9mo, \$85/1mo; size=7.0 x 3.5 or 3.0 x 7.5 inch
1/2 Page--\$525/9mo, \$100/1mo; size=9.0 x 3.5 or 4.5 x 7.5 inch
Full Page--\$800/9mo, \$130/1mo; size=7.5 x 9.0 inch
1mo rate=(9mo rate/9)+\$40 (rounded up).

Contact Tim Ryherd (907) 269-8771 for advertising information.

Newsletter Delivery Options

Your newsletter should be arriving via both an emailed PDF and regular mail. If you have an email account but have not received the PDF, please let the editor know. Also contact the editor if you wish to opt out of the paper copy.

Annual membership expires on Nov. 1st. Please renew if you have not already done so, or risk an interruption in your AGS emails and Newsletters.



Alaska's Premier Oil and Gas Consultants

Skills

- > Project Management
- > Geophysics
- > Geology
- > Petrophysics
- > Engineering

Areas of Expertise

- > North Slope
- > Cook Inlet
- > Interior Basins
- > Bristol Bay
- > Gulf of Alaska

Data

- > Digital Well Logs
 - > Raw and interpreted data
- > Well History
- > Directional Surveys
- > Formation Tops
- > Seismic
 - > USGS NPRA lines
- > GIS
 - > Land Status
 - > Well locations

Tools

- > Subsurface mapping tools
- > Seismic interpretation tools
- > Petrophysical interpretation tools
- > ArcView/GIS tools

We can provide clients with individuals to fill specific needs, or with integrated teams to manage exploration and development projects.

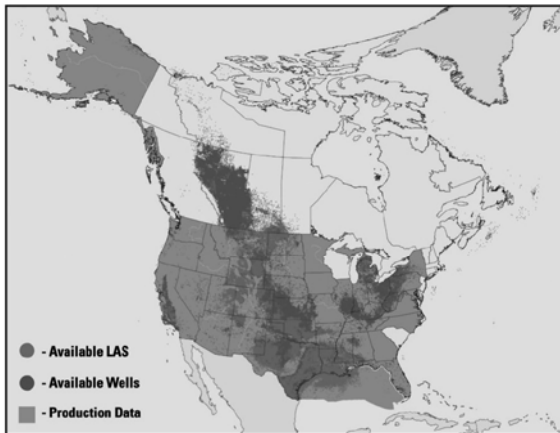
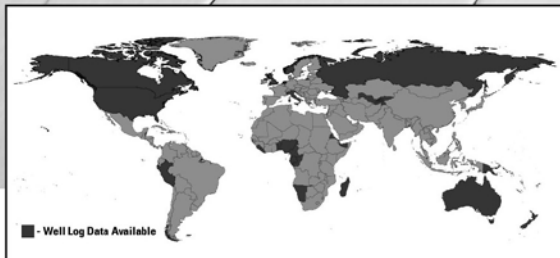
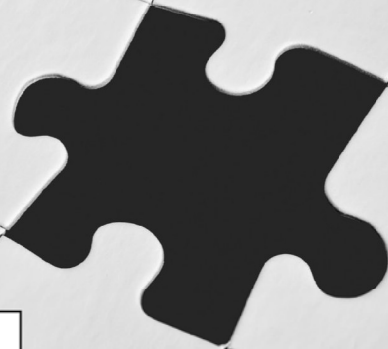
For information about PRA including background material and a complete listing of our consultant staff, please visit our website at:

www.petroak.com.

Contact us at:

PRA
3601 C Street, Suite 822
Anchorage, AK 99503
(907) 272- 1232, (907) 272- 1344 (fax)
info@petroak.com www.petroak.com

Missing well data?



Let TGS complete the picture.

TGS adds hundreds of complete LAS everyday to the **world's largest LAS library**, with well logs in 29 countries.

And since you asked for it, we now have nationwide **US Production Data**.

Our well data is online, available immediately, with a team of **dedicated customer support** specialists there for you.

If your own proprietary well files are piling up, our new team of **well data solutions** experts can build a custom solution suited to your needs.

For more information, call 888 LOG-LINE or email us at WellData@tgsnopec.com



www.tgsnopec.com

NORWAY +47 66 76 99 00 | USA +1 713 860 2100 | UK +44 (0) 1234 272122 | AUSTRALIA +61 8 9480 0000
© TGS-NOPEC Geophysical Company. All rights reserved.

2009 - 2010 Alaska Geological Society Board

Note: e-mail addresses now contain "at" instead of "@" Please change to @ when typing.

		Phone	e-mail	Workplace
President	Tom Homza	770-3701	Thomas.Homza at shell.com	Shell
Past-President	Jim Clough	451-5030	Jim.clough at Alaska.gov	DNR / DGGS
President-Elect	Tom Morahan	230-1672	Geowiz at aol.com	PRA / ConocoPhillips
Vice-President	Ken Helmold	269-8673	Ken.helmold at alaska.gov	DNR / DOG
Treasurer	Al Hunter	263-7947	Alhunter at chevron.com	Chevron
Secretary	Chad Hults	786-7417	Chults at usgs.gov	USGS
Director 09-2011	Dave Boyer	564-5783	Boyerdl at bp.com	BP
Director 09-2011	Marwan Wartes	451-5036	Marwan.wartes at Alaska.gov	DNR / DGGS
Director 09-2011	Dick Garrard	244-1067	Rgarrard at talisman-energy.com	FEX
Director 09-2011	Lee Ann Munk	786-6895	aflm at uaa.alaska.edu	UAA
Director 08-2010	Laura Silliphant	375-8240	Laura.silliphant at Alaska.gov	DNR / DOG
Director 08-2010	Rick Levinson	265-1530	Rick.a.levinson at conocophillips.com	ConocoPhillips Alaska

Committees and Delegates

AAPG Delegate	Arlen Ehm	333-8880	arlenehm at gci.net	Geological Consultant
AAPG Delegate & 2011 Conf. Chair	David Hite	258-9059	Hitelamb at alaska.net	Geological Consultant
Advertising	Tim Ryherd	269-8771	Tim.ryherd at Alaska.gov	DNR / DOG
Com. Ed./Science Fair	Jana DaSilva Lage	677-7883	Jldasilva5 at hotmail.com	
Field Trips	Tom Plawman	227-2781	Tom.plawman at bp.com	BP
Bylaws	Sue Karl	786-7428	Skarl at usgs.gov	USGS
Memberships	Greg Wilson	263-4748	Gregory.c.wilson at conocophillips.com	ConocoPhillips Alaska
Newsletter Editor	Greg Wilson	263-4748	Gregory.c.wilson at conocophillips.com	ConocoPhillips Alaska
Publications	Peter Johnson	334-5329	Peter.Johnson at mms.gov	Minerals Mgmt. Service
Scholarship	Robert Blodgett	646-1922	robertBBlodgett at yahoo.com	Geological Consultant
AGS Website	Jan Hazen		Jan at homestead-graphics.com	