



Evaluating Siliciclastic Reservoir Quality in a Changing World

Joann E. Welton

ExxonMobil Upstream Research Company
Houston, Texas

*Note: AGS meetings will be at the BP Energy Center for 2010-2011.
Please check the website (www.alaskageology.org) and issues of the AGS newsletter for updates.
This newsletter promotes the November luncheon talk of the Alaska Geological Society,
to be held Thursday, November 18th, at the BP Energy Center.*

Predicting reservoir quality prior to drilling is a major goal in both exploration and for optimized field development. However, today many of the prime opportunities only exist in deeper, hotter basins, where seismic imaging is challenged. To meet that challenge, detailed reservoir characterization integrated with basin modeling has been successfully used to predict reservoir quality in deep "conventional" reservoirs (typically quartz-rich) which are dominated by a preserved, primary intergranular porosity network. The accuracy of our predictions is based on a fundamental understanding of the primary controls on porosity evolution (for given depositional settings), and our ability to forward model compaction and high temperature (>70-80oC) quartz cement growth.

However, in the last decade, we have also seen an explosion of activity in fine-grained, microporous, clay/organic-rich reservoirs (with nano-sized pores). These "unconventional" reservoirs (e.g. tight gas/shale gas) which were previously considered to be uneconomic, are extremely heterogeneous and often contain unstable, ductile mineral phases that react differently (from conventional reservoirs) during burial diagenesis. To meet the "nano" challenge, new tools and methods in reservoir characterization are being developed to maximize recovery.

AGS Luncheon

Date & Time: November 18th, 11:30 am – 1:00 pm

Program: Siliclastic Reservoir Quality

Speaker: Joann E. Welton, ExxonMobil

Place: BP Energy Center

Reservations: Please make your reservation before noon Tuesday Nov. 16th, 2010.

Cost: Seminar only, no meal: Free

Reserve a box lunch: \$15

Reserve a hot lunch: \$20

Lunch with no reservation:
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

In this talk, we will review some of the key characterization tools currently being used for “sweet spot” identification in both “conventional” and “unconventional” reservoirs. We will also examine how modern grain coat studies and laboratory experiments are providing new insights into the impact of early diagenesis on reservoir quality. Lastly, we will examine

the question of where is the porosity in tight gas/shale gas reservoirs, which takes us into the new world of nanoscale pore imaging.

About the Speaker:

Joann Welton is a Senior Research Associate at ExxonMobil’s Upstream Research Lab in Houston. She has a Bachelor’s Degree from Portland State University, Portland, Oregon and a Master’s Degree from University of Southern California.

Joann began her career 37 years ago at Standard of California (now Chevron) where she worked on a variety of assignments ranging from operations geology, SEM characterization of rocks, organic geochemistry, and petrophysics. In 1988, she moved to Mobil’s Dallas Research Lab to focus on integrated reservoir quality prediction and now resides at the ExxonMobil Upstream Research Lab in Houston where she works on reservoir quality research, global RQ risk assessments, and mentoring new RQ specialists. Her current research focus is on understanding the impact of early diagenesis on reservoir quality.

A pioneer in the use of the scanning electron microscope to evaluate reservoir quality, she was the author of the 1984 AAPG “Methods in Exploration Series” book - “SEM Petrology Atlas”. Joann received an SEPM “Excellence of Presentation” Award in 1981, was co-author of a “Top 10” 2008 AAPG poster “Advances in Reservoir Quality Assessment of Tight-Gas Sands – Links to Producibility”, and a co-chair of the 2004 Hedberg Research Conference on “Structural Diagenesis: Fundamental Advances and New Applications from a Holistic View of Mechanical and Chemical Processes”. She has been an active member of both the AAPG and SEPM for 30+ years and is currently on the AAPG Research Committee and an active participant in the SEPM Clastic Diagenesis Research Group.

From the President’s Desk ...

I get a lot of advice from friends and the media these days: Buy gold, join Facebook, visit Las Vegas, drink pomegranate juice. Of course, results may vary. Here’s some advice with a much higher probability of enriching your life – get involved! Get involved with AGS, or get involved with one or more of the many worthwhile organizations around our state that support youth, professions, people in need, science, performing arts, sports, recreation, etc. Opportunities to participate abound in Alaska, and joining with others to support a good cause is more a part of the culture here than in any other place that I have lived. Perhaps this is due to our small population, or to our unique setting, or to the characteristics of the people who live here, or to some combination of these. In any case, we are very fortunate to have this great sense of community involvement and participation.

Of course, this has to lead to a plug for supporting AGS. Our committee heads quietly make sure that things get done, but I know that they would like to see more support from our membership at times. Perhaps

you would consider giving Jana Lage a hand with her youth activities. She just finished putting out a big effort to support Earth Science Week and will have Science Fair coming up in the spring. She also handles AAPG Teacher of the Year nominations. Or perhaps fundraising is your interest. Sunny Foster is heading up a new committee for this purpose, and I’m sure that she would like to have your ideas and participation. Of course, publishing a good quality guide, report, or cross-section is also a way to support AGS. Peter Johnson manages just about everything to do with our publications. Then there’s the joint PSAAPG/ Western Region SPE meeting coming up next May. Contact Dave Hite if you would like to help out. And finally, there are the scholarships that we give out every year to college students studying the geology of Alaska. Robert Blodgett will be heading up our scholarship awards committee again this year. Please make contact with any of these committee heads if you are interested in participating more fully in our society. Their contact information is listed on the last page of this newsletter. *(continued next page)*

Giving to one of the AGS scholarship funds is also a very good way to support our society. Donations are tax deductible and help build towards what we hope will be self sustaining programs some day. Donations to our scholarship funds are used exclusively for scholarships, and there are two choices: the AGS Scholarship Fund and the Don Richter Scholarship Fund. For more information on these and to donate

please see our web site, www.alaskageology.org. Whether by rolling up your sleeves or by opening up your pocket book, please consider getting more involved with your society.

- **Tom**

Community Education Corner

By Jana DaSilva Lage

The Alaska Geological Society celebrated Earth Science Week (October 10-16) "Exploring Energy" at the Loussac Library in Anchorage on October 14th.

More than thirty children participated in a "coal" mining activity. They first sat through a brief presentation about how coal is formed, how it is mined, its uses, and where it is found in Alaska. Then they bought claims, tools, tailings ponds, and paid for reclamation. In their mines, they may have found "anthracite", "bituminous", "subbituminous" or "lignite" coal. When they finished mining and reclaiming their land, they calculated their profit. Several of the miners took their chances and purchased a second claim.

Thanks to the generosity of Bill Brophy of Usibelli Coal Mine and Alaska Resource Education (ARE), every child took home goodie bag filled with licorice coal, a reclamation seed packet, magnets, pins, information about coal and more. The first 15 participants also received a coloring book about mining, provided by Nick Enos of Barrick Gold Corporation. In addition, all of the children took home an Earth Science Week bookmark (with geologic time scale) and door prizes. The door prizes included fossils and coal collected in Sutton by my family, posters, a coal specimen and book donated by ARE, and some mini hard had lights.



Many thanks to Sherri Douglas, Youth Services Coordinator at the Library and her staff members Linda and Mary who helped promote the activity and volunteered during the event; Dennis Tayman who provided materials for the coal presentation; and Bill Brophy, Pete Sloan, and Marcos Lage who provided coal specimens for the children to inspect.



The room was packed, the children had a great time, and several parents asked when we were going to do another activity. For your calendars, the next planned community education program is a Science Fair workshop, which will be held at the Loussac Library on December 29th.

If you have any questions, comments or are interested in participating in community outreach activities, please feel free to contact me jldasilva5@hotmail.com or 980-9368.

Tribute to Phil Brease

The Alaskan geological community lost a valued member with the passing of Phillip F. (Phil) Brease on May 15th, 2010, while leading a school group on a hike near Healy. Phil, who had been the Park geologist at Denali National Park & Preserve since 1986, was an institution at the Park, familiar to most of us at AGS, and was a recognized authority of that Park's geology. His early work in Denali was involved with the contentious issue of expansion of the Park to include the Kantishna mining area. His other duties at the Park included evaluating landslides and slumps, geologic mapping, designing the park's first roadside trail, establishing a glacier monitoring program, as well as work in paleontology and structural geology. He facilitated research with a wide network of geologists and paleontologists, acting as a unifying force to better understand the geology of the Alaska Range. His support of paleontology in the Park resulted in an Early Devonian brachiopod from Shellabarger Pass, *Myrospirifer breasei*, being named in his honor. Phil was also a valued member of the recent wave of research being conducted on Upper Cretaceous dinosaur trackways in the Park.

Phil authored an AGS Newsletter "On the Beaten Path" article (January 2007) in which he discusses the dinosaur tracks. In the article Phil's wit and humor are exposed, including his reference to *Myrospirifer breasei* and his contemplation of writing as a National Park employee under the heading "Beaten Path".

Many AGS members knew Phil through a number of field trips he led in and around Denali. Phil led a local AGS field trip in Denali in 2005, and a trip for the 2006 Joint Pacific Section-AAPG and Western Region SPE Anchorage Convention. More recently he led multiple trips through the Murie Science and Learning Center. These often involved hiking to various outcrops and even included whitewater rafting to view the geology of the Nenana Canyon.



At the time of his death, he had been scheduled to lead a backpack trip to search for and map additional dinosaur trackways.

Phil was born Feb. 15, 1949, in Grand Rapids, Michigan, to Phillip John and Doris (Gillette) Brease. He spent two years in the Army and was stationed in Germany. He later graduated with B.S. degree in Geology from Central Washington University, and subsequently worked for the Wenatchee National Forest in Washington and the Bureau of Land Management in Idaho and Glennallen. Phil was also an accomplished musician, playing a number of instruments, and was well known in Alaskan bluegrass music circles. He will be especially remembered for his welcoming and embracing personality as well as his uncanny ability to bridge the gap between various differing camps of geologists, miners, and the public, thereby effectively bridging and bringing about mutual cooperation between often conflicting personality types. Those of us who are fans of bad puns will always remember Phil's ability in that area as well.

Phil is survived by his wife Barbara Brease, and children Anastasia Brease, Emily Brease, and Michael Linyum. We at AGS will deeply miss our dear friend and geological comrade, Phil Brease. Our deepest condolences go to his family.

Contribution by:
Robert Blodgett, Tom Plawman, & Greg Wilson

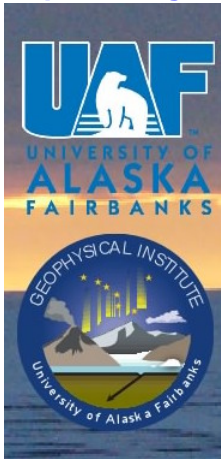


ICAM VI

The Sixth International Conference on Arctic Margins
Fairbanks, Alaska, USA; 31 May - 2 June 2011

<http://www.gi.alaska.edu/icam6/>

<http://www.gi.alaska.edu/icam6/>



*Deadlines: March 30: Abstract
Deadline*

*Rolling abstract acceptance within
one week of submission*

*April 30: Last day for online
registration*

*Venue: Davis Concert Hall,
University of Alaska Fairbanks
campus*

*Travel: Symposium is timed with
direct flights from/to Europe*

Scientific sessions:

- **Hydrocarbon potential and gas hydrates;**
- **Science issues relating to UNCLOS Article 76;**
- **Geodynamic significance of arctic magmatism;**
- **Vertical motions in the Arctic, tectonic and glacial;**
- **Geology and palaeogeography of the arctic continental margins;**
- **Evolution of the Arctic Ocean basins, including plate reconstructions, magmatism, and sedimentology;**
- **Modern arctic environments, including geological, climatic, and oceanographic processes;** and
- **Recent advances in arctic research technology**

Contact the organizers: ICAM6@gi.alaska.edu

The Alaska Geological Society

LUNCHEON SCHEDULE 2010 - 2011

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

September 2010	Thurs., Sept. 16 th , David Scholl, USGS, Earthquake and Tsunami Hazards of the Aleutians
October 2010	Thursday, Oct. 21 st , Peter Haeussler, USGSNeo-tectonics of Cook Inlet
November 2010	Thursday, Nov. 18 th , Joann Welton, EXXON, Evaluating siliciclastic reservoir quality
December 2010	Thursday, Dec. 9 th – Alison Till, USGS, Reconstruction of Arctic Alaska
January 2011	Thursday, Jan. 20 th – Chris Waythomas, USGS AVO, Eruption of Kasatochi
February 2011	Thursday, Feb. 17 th , James Coleman, USGS, Tight-Gas Sandstone Reservoirs (AAPG Distinguished Lecturer)
March 2011	Thursday, March 17 th – Lisa Wirth, UAF Alaska Satellite Facility
April 2011	Thursday, April 21 st , Erik Hulm, BP Alaska, Heavy Oil of Alaska
May 2011	Thursday, May 19 th – Robert Swenson, DGGs, Energy development in Alaska

If you would like to volunteer a talk or would like to suggest a speaker, please contact Ken Helmold at 269-8673

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**Conference Dates:
May 9th – 11th, 2011**

Technical Session Topics Include:

Oral Sessions

- Geology and Hydrocarbon Potential of the North Slope, Offshore Beaufort and Chukchi Seas
- Cook Inlet Oil and Gas Fields
- Recent advances in Exploration and Development on the North Slope
- Reservoir Quality: Analysis and Prediction
- Integrated Reservoir Description: Case Studies and Best Practices
- Environmental Geology and Geohazards: Applications for Resource Development
- Reservoir Modeling: Techniques, Workflows and Case Studies
- Paleozoic and Proterozoic Geology of Alaska
- Technology: Advances and Applications
- Alternative Energy: Progressing the Future
- Petroleum Systems in Alaska and the Western Cordillera
- Advances in Seismic Data Acquisition and Processing
- Case Histories and Reservoir Characterization: Application of Seismic and other Geophysical Data

Poster Sessions

- Technology: Advances and Applications
- Integrated Reservoir Description and Modeling
- Geology, Tectonics and Resource Potential of North Alaska
- Oil and Gas Fields of Alaska: Case Studies

Arctic to the Cordillera: Unlocking the Potential

The 2011 Pacific Section of the American Association of Petroleum Geologists (PS-AAPG) meeting will be held in Anchorage, Alaska – the gateway to the 'Last Frontier'. The Pacific Section of SEPM and the Pacific Coast Section of SEG will also be participating in the conference and will co-sponsor several of the technical sessions. The Western Region of the Society of Petroleum Engineers will be co-hosting the conference and helping to provide a cross-discipline forum that offers attendees a wide variety of technical presentation, poster sessions, short courses and field trips.

The themes for the conference will include exploration and development case studies, technology applications and recent advances, alternative energy, environmental geology and geohazards in resource development, and petroleum systems in Alaska, the circum-Arctic, and the western US.

For this to be a successful meeting we need you, your ideas, and your participation. We look forward to a series of stimulating and insightful sessions that will continue to address and lead to solutions for many of the technological, environmental, and political challenges the industry is faced with today.

You are invited to get involved and help shape this conference by submitting an abstract for an oral or poster presentation in the technical program. So, please review your recent work and put together an abstract for a contribution to the technical program. Abstract submissions can be made at the following website between **October 1, 2010 and February 11, 2011**.

<http://www.>

For additional information please contact:

David Hite, PS-AAPG, General Co-Chair: hiteconsult@acsalaska.net

Sandy Phillips, PS-AAPG, Oral Session Chair: sandra.phillips@bp.com

Steve Wright, PS-AAPG, Poster Session Chair: sswr@chevron.com



Pacific Section
American Association of
Petroleum Geologists



Society for
Sedimentary Geology



Society of
Exploration
Geophysicists



Alaska
Geological
Society



Society of
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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>

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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.

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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 Greg Wilson 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

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1/10 Page--\$150/9mo, \$60/1mo; size=1.8 x 3.5 inch
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1mo rate=(9mo rate/9)+\$40 (rounded up).

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

Alaska Recreational gold panning guidebook now available

The popular **Guide to Recreational Gold Panning on the Kenai Peninsula** has been updated and rereleased in a joint effort by the Bureau of Land Management and U.S. Forest Service. The guide provides background on the geology and mining history of the Kenai Peninsula as well as advice on the best panning techniques to recover gold. It describes four sites on the Kenai Peninsula that have been set aside for recreational gold panning only; the closest being about an hour's drive from Anchorage. For those interested in living a bit of the Gold Rush and maybe discovering a bit of the "yellow metal" this guidebook is invaluable. Free copies are available from the U.S. Forest Service Glacier Ranger District in Girdwood (907-783-3242) and the Bureau of Land Management Anchorage District office (1-800-478-1263).



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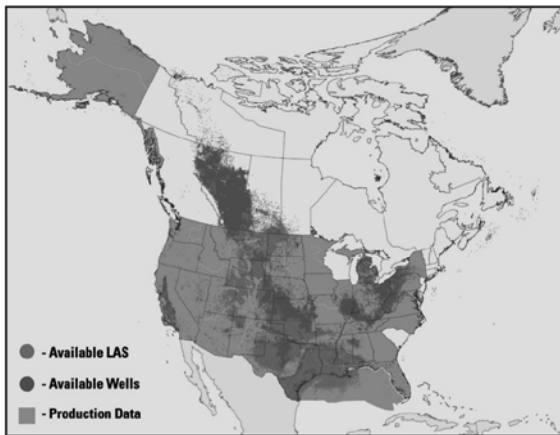
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2010 - 2011 Alaska Geological Society Board

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

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