

C N T A C T

A PUBLICATION OF THE WYOMING GEOLOGICAL ASSOCIATION

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AUGUST 2010

PRESIDENT'S LETTER

Steve Reid

This newsletter will probably be a little late since all of Julia's efforts have been going into the Annual Field Conference. Be sure and say "Thank You" to her and all the other field conference committee members who have worked diligently to produce an excellent and ambitious conference for our members under the direction of Graeme Finley. The list includes JoAnn True and Jordan Revielle for program, Laurie Fletcher and Barb Atkinson for editing the guidebook and road logs, and Julia for record sponsorship and helping with field trips. Beth Anderson has stepped in and done an excellent job of putting the finishing touches to a product we should all be proud of. A special thanks to the unnamed members who have contributed in every aspect of making this conference successful. And most of all, thank you to the people who contributed papers and presentations to the technical program which made this conference possible.

You may have also noticed a copy of the new membership directory in your registration packet and the rest will be getting yours in the near future. This is the first photo directory printed in years and we owe a thank you to Laurie and Beth for the effort. We also have a guidebook at Mountain States for the first time in several years. Hope you enjoyed the field conference and what remains of summer!

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AUGUST 2010 WGA MEETINGS

*Meetings are held at the Casper Petroleum Club
A lunch buffet (\$10.50) is served from 11:15 – noon
Speaker's presentation begins at noon
Reservations: email info@wyogeo.org or 307.237.0027
Guests are always welcome!*

6 August

Annual Field Conference

13 August

Lauren Harrison

Petrographic and Geochronologic Analysis of the
Albany Granite of the Medicine Bow Mountains,
Southeast Wyoming

20 August

TBA

Please check website for information

27 August

Gary Stewart

Peak Oil?

Field Trip Opportunity September 12th & 13th

Rare earth elements & gold occurrences in Black Hills

Rare Element Resource's Bear Lodge Project
Goldcorp's producing Wharf Mine

Call WGA Office for information

LUNCHEON SPEAKER ABSTRACTS

13 August Lauren Harrison University of Wyoming Student
Petrographic and Geochronologic Analysis of the Albany Granite of the
Medicine Bow Mountains, Southeast Wyoming

The Albany granite is one of several similar-looking granite plutons in southeastern Wyoming, all classified simply as pink massive granites. Because of their similar petrology these granites were all assumed to be correlative with the 1.4 Ga Sherman Granite, located in the Laramie Range. However, a recent study used U/Pb zircon to date the Albany granite at ~1.75 Ga. This result called into question the simplicity of the intrusive system in the area, deformation of the Albany granite by the Cheyenne belt shear system, and the relationship of the Albany granite to its wall rock. We address this question through field work, sample collection, rock preparation, modal and geochemical XRF whole rock analysis, petrography, and radiometric dating. We hypothesize that the dated 1.75 Ga rock is actually wall rock to the Albany granite; the age of the Albany granite is ~1.4 Ga; signs of solid state deformation in thin-sections is due to a source of deformation other than the Cheyenne belt; and that the contact between Albany granite and the wall rock interfingers. Alternatively, if the Albany granite is 1.75 Ga, signs of solid state fabric development could be attributed to Cheyenne belt deformation. Work has been ongoing since July 2009 and will continue over the next year.

27 August Gary Stewart Melange International, LLC
Peak Oil? If So, How Can Our Industry Be Ignored?

The 2010 Joint Forces Command JOE Report attempts to predict future Global hotspots and issues for the U. S. Military. The report predicts Global oil consumption will exceed supply by 2014. Gary Stewart, with Melange International, LLC, and co-author Robert Coskey will present an in-depth analysis of World Oil Supplies on a regional basis. How do reserves compare between OPEC and Non-OPEC, industrialized countries versus developing nations? Does OPEC still control the world price? You might find some surprising projections in this valuable and data-driven presentation.

Seeking Full-Time GIS or Geology Position

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Upcoming PTTC Workshops



Mining Online Tech Information (Getting Better Answers, Faster)

Friday August 13, 2010, 8:30 am – noon

Colorado School of Mines; Ben Parker Student Center, Ballroom C

Fee: \$95, includes food at breaks

Instructor: Dr. Dwight F. Rychel, Consulting Petroleum Engineer

This course outlines online information resources (Internet search engines, SPE's OnePetro, AAPG's Datapages including the recently developed PTTC TECHPLACE, and with a particular focus on DOE's Knowledge Management Database (KMD), etc.) – their differences, how to most effectively use them, individually and as part of an established information search process.

Concepts will be demonstrated for several “common questions” most operators face, such as:

- How to lower operating costs in mature properties?
- How to identify and stimulate damaged wells?
- How to assess behind-pipe and enhanced oil recovery potential?
- How to place and stimulate horizontal laterals?
- How to find reservoir “sweet spots?” – in tight gas and shale gas

Characterization of Madison Limestone Petrophysical Properties – Preliminary Step for Sequestration Permitting

Wednesday, August 18, 2010, 8:30 am – 5 pm

Colorado School of Mines; Ben Parker Student Center, Ballroom C

Fee: \$195, includes food at breaks, class notes, and PDH certificate

Instructors: Dr. Geoffrey Thyne, Enhanced Oil Recovery Inst., Univ of Wyoming,

**Dr. James Myers, Department of Geology and Geophysics and
Director of the Wyoming CCS Technology Institute**

This course will provide an overview of the CCS permitting process based on evolving state and federal rules for the new UIC Class VI well. Course material will include an introduction to a potential permitting work flow model, the well catalog tool and a practical example of the process of acquiring and evaluating petrophysical data for constructing a geologic model of a potential sequestration site. The data acquisition and evaluation includes gathering public-domain petrophysical data from cores, expanding the database with logs and developing the basis for populating 3-D static and dynamic models on the necessary scale for sequestration sites. The example formation will be the Madison Limestone in southwestern Wyoming.

IOR Field Applications and Case Histories

Wednesday, September 8, 2010, 9 am – 4 pm

Denver Athletic Club, Fee: \$350, includes lunch, class notes, and PDH certificate

Instructors: Dr. Betty Felber, Christie Lee, and Paul Burger

Bakken Petroleum System

Classroom and Core Workshop

Friday, September 24, 2010, 8:30 am – 5 pm

USGS Core Facility, Fee: \$195, includes lunch, class notes, and PDH certificate

Instructors: Dr. Steve Sonnenberg and Dr. Rick Sarg, Colorado School of Mines

Completion & Stimulation(s) of Horizontal Wells in Tight and Unconventional Gas Reservoirs

Tuesday - Wednesday, September 28-29, 2010, 8:30 am – 5 pm

Denver Athletic Club, Fee: \$390, includes lunch, class notes, and PDH certificate

Instructor: Larry K. Britt, Britt Rock Mechanics Laboratory at Tulsa University

Class Descriptions and Register Online: www.pttcrockies.org

For more information, contact Mary Carr, 303.273.3107, mcarr@mines.edu

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GEO Wives

Hi Ladies,

The Casper GEO Wives invite you to join our group. We meet for lunch and a program on the second Tuesday of each month, September through May. Special activities include:

Books
Bridge
Gourmet
Chat & Chew
Theater Party
Christmas Party
WGA Spring Dance

Membership is composed of wives and/or women members of the Wyoming Geological Association (WGA) and/or the Casper Geophysical Society, Landman Organization, Society of Mining Engineers (SME), American Petroleum Association and AAPG/RMAG. It is a wonderful place to meet and make new friends associated with the energy industry.

Our autumn membership Brunch will be held at the Petroleum Club on Tuesday, September 14th from 9:30 – 11:00. Cost of Brunch will be \$11.00.

Reservations should be made by September 10th at 265-8466 (Lynne Swank) or 266-6824 (Nanci Andrew). Please join us for a good time.

Hope to see you there.

Nanci and Lynne



CASPER LOG LIBRARY

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cllllc@qwest.net

24 Hour Accessible to members. Staffed, Monday-Wednesday 8:00 am-10:00 am

Historical Geological Library

Well log data, Microfiche, Petroleum Information (Scout) cards, Production Reports, Topographic Maps of Wyoming, Petroleum Ownership Maps (POMCO), Stratigraphic Logs, Sample Logs, Montana Completion Reports, Production Histories, Rocky Mountain Drilling Reports

Equipment and Services

Microfiche viewers, scanner, and log printer. Copier and fax machine. Internet access.

Wyoming Geological Association

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 Monday, August 23rd.**

All ads must be prepaid.
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Advertising space is also available in the membership directory and the annual field conference guidebook. Discounts are available for advertising in all three publications.

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August 2010

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8	9	10	11	12	13 Harrison Lunch	14
15	16	17	18	19	20 TBA	21
22	23	24	25	26	27 Stewart Lunch	28
29	30	31				