Gregory P. Wahlman— PBS-SEPM Luncheon Speaker

— Biography on page 2—
— Tuesday, May 17, 2011 —
—11:30 am, Midland Center, Midland, TX—
RSVP by 3 pm Monday, May 16th : 432-683-1573 or email: <wtgs@wtgs.org>

“Stratigraphy and Significance of the New Global Pennsylvanian-Permian Boundary in the Permian Basin Region”

Abstract:
A new global Pennsylvanian-Permian boundary stratotype has been designated by the International Stratigraphic Commission in the type Permian region in the southern Ural Mountains of Kazakhstan. The conodont-based correlation of that chronostratigraphic boundary to Midcontinent North America has significantly elevated the traditional period boundary in the North American stratigraphic section. Exploration geologists need to be aware of the new position of this period boundary in order to make accurate and consistent applications of both old and new stratigraphic, sequence stratigraphic, biostratigraphic, paleogeographic data, and paleoclimatic data. In Permian Basin terminology, the Pennsylvanian-Permian boundary has essentially moved upsection from the base to the top of the so-called Bursum interval (= PW-1 zone of Wilde, 1990), and so the
Bursum interval is now considered to be latest Pennsylvanian. Stratigraphic aspects and exploration implications of the new period boundary will be discussed for the northern Midcontinent region, north-central Texas, Eastern Shelf, Midland Basin, Central Basin Platform, Hueco Mountains, and Glass Mountains. Throughout the Permian Basin region, the new Pennsylvanian-Permian boundary interval is characterized by active collisional tectonics, a marked sea level lowstand, and a significant erosional unconformity. Early Wolfcampian (Nealian) sealevel highstands remained relatively low, but then sea levels generally increased through Late Wolfcampian (Lenoxian) and Leonardian time.

Bio—Permian Basin Section SEPM Speaker—May, 17, 2011

Gregory P. Wahlman, Ph.D., Wahlman Geological Services, LLC, Houston, TX

Professional Association: Wahlman Geological Services, LLC, Houston

Education: BS Indiana University Year 1972
MS Indiana University Year 1974
PhD University Of Cincinnati Year 1979

Brief Summary of Professional Experience:

1974 – 1975: Texaco, New Orleans
– Exploration Geologist

1979 – 1999: Amoco, Houston
1988 – 1991 – Regional Stratigrapher (Africa and Middle East Region)
1991 – 1999 – Global Stratigraphy Program Coordinator, Carbonate Sedimentologist and Biostratigrapher (E&P Technology Group)

1999 – 2009: BP Amoco and BP America
– Carbonate Sedimentologist (E&P Technology Group)
– Co-Leader of Global Carbonate Sedimentology Network
– Senior Advisory Group for Sedimentology-Stratigraphy
– Retired from BP, June, 2009

2009 – 2011: Wahlman Geological Services, LLC

“The voyage of discovery consists not in seeking new landscapes, but in having new eyes.”

Marcel Proust, French novelist (1871—1922)
Q-Land is a point-receiver acquisition and processing system capable of acquiring up to 30,000 channels in real time. The Q-Land system was built to record data from individual geophone accelerometers (GACs). Each sensor transmits a digital trace to the Q-Land central system through a cable-based ground network that uses a hybrid of copper and fiber optic transmission media to support the high data volumes. The Q-Land ground network is designed to operate in temperate and desert climates.

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More Information:
http://www.westerngeco.com/content/services/q_technology/q_land/index.asp

"There are grounds for cautious optimism that we may now be near the end of the search for the ultimate laws of Nature."
A Brief History of Time: From the Big Bang to the Black Holes.
On Tuesday, May 17, 2011 I will say adios to all of you at our annual luncheon, but only as your outgoing president of the PBS-SEPM. When publishing my first PBS-SEPM President’s column in September, 2010, the price of west Texas intermediate crude was $75.00/bbl for October delivery. As I leave office, the price has increased to $104.00 /bbl for June delivery. We have all been very fortunate through this year as the oil patch in West Texas has kept each of us as busy as we want to be.

Despite the time crunch we have all been under, many have stepped forward to make this a very successful year for PBS-SEPM. The efforts our executive board members, committee chairs and volunteers have dedicated continue to allow the society to produce events that are beneficial to our geologic community.

I would like to share a few of the “behind the scenes” highlights that many of you may not be aware of. Emily Stoudt took the time and effort to put together a nice collection of fossils and minerals to be photographed for our 4th annual PBS-SEPM calendar. Of course the calendar would not have been possible without the beautiful photography work done by Wendy Savage, the efforts of Brady Kolb lining up our generous calendar sponsors and Cathie Party putting on the final touches. Robert Nail has put a tremendous amount of effort into organizing what will be a rewarding field trip for many to the Sacramento Mountains with Xavier Janson kindly offering to lead the trip. PBS-SEPM continues to have great success in educating our up and coming star geologists, engineers and landmen through our Young Professionals and Intern Field Trip led by Bob Trentham, Emily Stoudt, Robert Campbell and Chris Fling. This annual field trip continues to be the most successful field trip in our society’s history. David Orchard has taken on a tremendous effort in leading the Core Location Committee. The committee is still in the datagathering stages as they attempt to manage the huge amount of information that continues to mushroom. I believe one day, this committee will pull together a data base for core location that will be a giant benefit to our society members. Mitch Harris has graciously agreed to donate his time and valuable knowledge by putting on what I believe will be an outstanding core workshop this August. This will be a full-day core workshop on the Geology of the Capi- tan Shelf Margin as we examine 2500 feet of core from the Gulf PDB-04 well. The core workshop could not happen without Wayne Helms. Wayne will make an awesome contribution by handling the core for us. I would also like to give a very special thanks to our Executive Director Paula Mitchell. Without her support, I do not believe this society could exist. She has been a tremendous support to me the entire year and there is not enough I can do for her to adequately show my appreciation.

I am sure there are many more which I owe a great deal of gratitude. If I have missed anyone, a special thanks is directed your way.

I now look forward to handing gearshift over to Dave Thomas as incoming President of PBS-SEPM for the 2011-2012 term. I know, as I believe all of you do as well, that Dave and his executive board will do an outstanding job for the society in the forthcoming year.

Teri McGuigan
President, PBS-SEPM 2010-2011
http://www.pbs-sepm.org
PBS-SEPM Executive Board (June, 2010—May, 2011)

President: Teri McGuigan  tmguigan1@suddenlink.net  770-7099
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Second Vice President: Wayne Helms  Wayne.helms@weatherfordlabs.com  684-8800
Treasurer: Cindy E. Bowden  Cindy_bowden@kindermorgan.com  688-3785
Secretary: James Hawkins  jhawkins@midland.oilfield.slb.com  571-4626
Executive Director: Paula Mitchell  wtgs@wtgs.org  683-1573
Past-President Fred H. Behnken  fred_behnken@kindermorgan.com  688-2344

Do you have an idea for an interesting luncheon talk? Have a core workshop you’d like to present? Have some suggestions on how PBS-SEPM can better serve the geologic community? Just click on the e-mail above and drop us a note—your PBS-SEPM Executive Board would LOVE to hear from you!

Corporate Sponsors (2010-2011) see others on p. 3

If you are interested in a sponsorship opportunity, please call Paula Mitchell for more details at (432) 683-1573

"Nothing tends so much to the advancement of knowledge as the application of a new instrument”.

Sir Davy Humphry

British inventor, chemist and philosopher

(1778—1829)

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Your Corporate Logo could be here.
Your logo will be on the website, in every newsletter, on the Power Point shown prior to every luncheon and in the calendar credits for one year June to May.
2011—2012 PBS-SEPM Executive Board Nominations

President Elect Nomination

Robert S. Nail, PhD
Sr. Geoscientist
Whiting Petroleum Corp.
Midland, TX 79701

Education: Ph.D., Geoscience, Texas Tech University; M.S., Geology, University of Texas at Arlington; B.S., Geoscience, Texas Tech University
Memberships: SEPM (National, Permian Basin Section, Gulf Coast Section); AAPG; West Texas Geological Society (WTGS); Houston Geological Society (HGS); North American Micropaleontology Section (NAMS); Geological Society of America (GSA)
Activities: PBS-SEPM - First VP (2010), Second VP (2009), Luncheon Speaker Chair (2008); WTGS – WTGS Fall Symposium Technical Co-Chair (2011), Website Chair (2007-present); SWSAAPG – Website Chair (2010-present); GCSSEPM – Website Chair (2000-2010); NAMS – Secretary (2002-2006)

1st Vice President Nomination

Robert Campbell
Consultant
Midland, Texas

Education: BS (1974) and MS (1976) Petroleum Engineering, University of Texas
Memberships: SEPM, WTGS, SPE, SPWLA
Activities: PBS-SEPM Young Professional Field Trip Mentor (2008-present)

2nd Vice President Nomination

Cindy E. Bowden
Geologist
Kinder Morgan Production Co., Inc.
Midland, Texas

Education: Odessa College, AS in Geology 1999, UTPB, BS in Geology 2005, UTPB, MS in Geology, 2010
Memberships: SEPM, AAPG, SEG, PBS-SEPM, WTGS

Remember to return your PBS-SEPM Executive Committee Ballot To the PBS-SEPM Office By May 15th!
P.O. Box 1595
Midland, TX 79702-1595
2011—2012 PBS-SEPM Executive Board Nominations

Secretary Nominations

Sandra Elliott
Geologist
McClure Oil Company
Midland, Texas
Education: B.S. Geology 2003 Sul Ross State University
           M.S. Geology 2009 Sul Ross State University
Memberships: PBS-SEPM, WTGS, GSA,AAPG
Activities: PBS-EPFM Core Committee member 2011, President Geology Club, Sul Ross State University 2003, Vice President Geology Club Sul Ross State University 2002

Debrah S. Gann
Project Scientist / Task Manager / Geologist
Arcadis
Midland, TX
Education: BS Geology, University of Texas of the Permian Basin 1992; MS Geology, University of Texas of the Permian Basin, 2000; Texas Licensed Professional Geoscientist; Tennessee Registered Professional Geoscientist
Memberships: PBS-SEPM, WTGS, AAPG, AAPG-DEG, Business & Professional Women, NGWA, SPE-ESG
I like to take vacation as much as possible and read. I enjoy field trips when I can attend them and hiking when time allows.

Treasurer Nominations

Curtis D. Helms, Jr.
Geologist
Great Western Drilling Co
Midland, Texas
Education: M.S. Geology, The Univ. of Texas of the Permian Basin 2011
           B.S. Biology The Univ. of Texas of the Permian Basin 2003
Memberships: AAPG, Energy Minerals Division of AAPG, WTGS, PBS-SEPM, FCGS, RMAG, Lions Club International-Farmington, New Mexico, NRA
Activities: Hunting, Skeet Shooting, Fishing, Hiking, Golfing, Riding Horses, anything outdoors

Wayne Helms
General Manager
Permian Basin Operations
Weatherford Laboratories
Midland, Texas
35 years of industry experience
Memberships: WTGS, PBS-SEPM, SPE
Activities: PBS-SEPM 2nd Vice President (2010-2011); Continued support to PBS-SEPM and WTGS by overseeing the rig up and rig down of core workshops
UPCOMING EVENT
PERMIAN BASIN SECTION SEPM
YOUNG PROFESSIONAL AND INTERN FIELD TRIP
June 9-12, 2011

- Four day multi-disciplined field trip in the Guadalupe Mountains for geology, engineering and land young professionals and interns
- Trip led by Dr. Emily Stoudt and Dr. Robert Trentham from The University of Texas of the Permian Basin, who have a combined 55 years of geological experience in research, development and production in the Permian Basin
- Robert Campbell and Chris Fling will provide mentoring support in engineering and land and have comparable years of Permian Basin experience in their respective professions
- Goal is to educate participants in combining outcrop data with industry exploration and production techniques in a multi-disciplined environment
- Participants will have opportunity to observe world-class outcrops of shelf to basin deposits that are direct analogues to producing fields in the Permian Basin
- Lectures covering geology of west Texas, carbonates, sequence stratigraphy, quick and simple log calculations and land practices
- Classroom exercises on general land practices, sequence stratigraphy, log correlation, seismic interpretation and production analysis
- Break out sessions specific to each discipline

Participants will leave Midland, TX on June 9, travel to Carlsbad, NM, where they will stay at the Stevens Inn, and return to Midland, TX, the evening of June 12. Cost will be $800.00 for single occupancy and $700.00 for double occupancy. Included in the costs: round trip transportation from Midland, three nights lodging, three breakfasts, three lunches, refreshments in the field, guidebook and handouts.

WATCH pbs-sepm.org WEBSITE FOR UPDATES ON FIELD TRIP
YOUNG PROFESSIONAL AND INTERN FIELD TRIP
June 9-12, 2011

Registration Form

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Limited space is available, so the first to register will be given priority.

Cost (Please check your choice): Single $800.00 ( ) Double: $700.00 ( )

Discipline (Mark One) Geologist ( ) Land Professional ( ) Engineer ( )

REGISTRATION FEE NON-REFUNDABLE AFTER JUNE 1, 2011

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For additional information contact: PBS-SEPM Office (432) 683-1573 or Teri McGuigan (432) 770-7099
Permian Basin Section-SEPM Core Workshop
Tuesday, August 2, 2011 – Midland Center, Midland, TX
Geology of the Capitan Shelf Margin: The Gulf PDB-04 Core
Presented by: Paul (Mitch) Harris, Chevron Energy Technology Company, San Ramon, CA

Registration Form

Outcrops in the Guadalupe Mountains of southeast New Mexico and West Texas superbly expose the Upper Permian (Upper Guadalupian) Capitan reef and its time-equivalent shelf and basin strata. These outcrops have long been the focus of considerable research, which has led to several regional stratigraphic, sedimentologic, and diagenetic models that are used worldwide as analogs for various exploration and development plays, as well as the outcrops serving as an invaluable training ground for geologists and engineers alike.

Guided by the notion that the integration of subsurface and outcrop data can potentially show a much more complete geologic portrayal of the Capitan shelf margin than the outcrops alone and thereby further enhance the analog potential, Gulf Research and Development Company continuously cored and logged a stratigraphic well in 1984, the Gulf PDB-04 well, for the purpose of recovering a complete stratigraphic successions of the Capitan reef and its equivalent facies. This research core and well, first presented by Garber, Grover, and Harris in 1989 as an SEPM Core Workshop, provided an opportunity to better understand and refine outcrop-based concepts of stratigraphic relations, facies, diagenesis, and geologic development of the Capitan shelf margin. The core workshop was repeated in Midland (1990) and Calgary (1993), but has not been shown since.

The PDB-04 well is located in Eddy County, NM, at the northern end of the Delaware Basin, 19 miles (30 km) east-northeast of Carlsbad, which marks the northernmost extent of the same strata exposed in the Guadalupe Mountains. The research well continuously cored (from 510 to 5335 ft [155-1626 m] using a slim-hole wireline coring technique) and logged (using slim-hole logging tools) a complete stratigraphic sequence of the Capitan margin and its coeval shelf and basin strata.

The Capitan reef has time-equivalent shelf strata of, in ascending order, the Seven Rivers Fm, Yates Fm, and Tamnill Fm, which consists of varied carbonate, evaporite, and siliciclastic lithologies. Coeval basin strata of the Bell Canyon Fm are dominated by siltstone and sandstone, but five basinward-thinning carbonate-debris units - the Negler through Laramie limestone-fm - occur along the basin margin. Because of the highly prograding nature of the Capitan shelf margin, the PDB-04 core captured a complete sequence of shelf-to-basin facies similar to those found in outcrops to the west (e.g., McKinney Canyon).

This PBS-SEPM Core Workshop is your chance to see this unique core, gain first-hand knowledge of what it added to our overall understanding of the Capitan shelf margin, and further better appreciate its potential as an analog for plays and reservoirs in mixed carbonate-clastic shelf systems, fractured reef margins, breccia-dominated steep slopes, and toe-of-slope to basin transitions. The core (from 1400ft core depth to ~ 3900ft core depth = 2500ft of core) will be available to examine on Tuesday, August 2 in the Midland Center; 7:30am registration; 8:30-10:00am introductory lecture; 10:00am-12:00 noon core viewing; 12:00-1:00pm lunch; 1:00-3:30 pm core viewing. Registration includes a set of hardcopy workshop notes and two SEPM CD Publications.

Registration Fee: PBS-SEPM Member: $100.00 ( ) Non-Member: $125.00 ( )
Student Fee: $35.00 ( )

REGISTRATION FEE NON-REFUNDABLE AFTER 5:00 P.M., JULY 22, 2011

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For additional information contact: PBS-SEPM Office (432) 683-1573 or Teri McGuigan (432) 770-7099
Short Biography for Paul M. Harris

Paul M. (Mitch) Harris, a Senior Research Consultant and Chevron Fellow with Chevron Energy Technology Company in San Ramon, California, performs carbonate research, technical service projects, consulting, and training for the various operating units of Chevron. His career’s work has centered on facies-related, stratigraphic, and diagenetic problems that pertain to carbonate reservoirs and exploration plays in most carbonate basins worldwide. Mitch received his B. S. and M. S. degrees from West Virginia University and Ph.D. from the University of Miami, Florida. He has published numerous papers, edited several books, and is active in AAPG and SEPM. He has been a Distinguished Lecturer and International Distinguished Lecturer for AAPG, received the Wallace E. Pratt Memorial Award for best original article published in the AAPG Bulletin in 1998, was awarded Honorary Membership from SEPM in 2002, received the Robert H. Dott, Sr. Memorial Award twice for best Memoirs published by AAPG in 2004 and again in 2006, and received the John W. Shelton Search & Discovery Award for best contribution to the AAPG Search and Discovery website in 2009. Mitch is also an adjunct faculty at the University of Miami and Rice University.
Paleozoic mounds stratigraphic architecture in the Sacramento Mountains: implication for reservoir characterizations

Dr. Xavier Janson
Reservoir Characterization Research Laboratory
Bureau of Economic Geology
University Of Texas at Austin

This two day trip will use the unique suite of carbonate outcrops in Sacramento Mountains to illustrate reservoir-scale stratal architecture and methodologies for interpreting these carbonate mounds geometries from contained facies. Two different platform style of mounds development will be visited. The Mississippian mounds grew on a wide low angle ramp below wave base and are dominated by aphytic to oligophotic biota, whereas the Virgilian algal mounds are dominated by euphotic biota that depends on light to grow and has a result are controlled not only by the hydrodynamic regime but also the water depth (accommodation). We will draw comparison with the subsurface data from the Horseshoe Atoll and in the Fort Worth Basin where these two types of mounds are present or at least suspected whenever possible. We will contrast the two stratigraphic architectures and discuss the applicability of these outcrop and outcrop-derived conceptual model to the isolated platform case in Horseshoe Atoll and Forth Worth Basin.

POSTPONED DUE TO FIRE DANGER IN LINCOLN NAT’L FOREST WHERE THE BULK OF THE OUTCROPS ARE LOCATED. TO BE RESCHEDULED
PBS-SEPM is the Permian Basin Section of SEPM—the Society for Sedimentary Geology. However, you do not need to be a SEPM member or a geologist to join PBS-SEPM.

Our non-profit society relies upon the efforts of dedicated volunteers to serve the geological community—primarily through educational events. These events include monthly luncheon talks, core workshops, annual field trips, and special geological publications. Thanks to our Education Committee we are involved in MISD 5th grade geology presentations to interest elementary students in pursuing a career in geosciences. We would like to increase our exposure on college campuses—reaching out to future earth scientists through scholarships, discounted memberships, and offering full-time geology students the ability to participate in professional-grade field trips at little to no cost.

If you would like to join PBS-SEPM, you may visit our website (www.pbs-sepm.org) to learn more about us, discover how to get involved and download a membership form.

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“When truth is evident, it is impossible for parties and factions to rise. There never has been a dispute as to whether there is daylight at noon.”

Francis Marie Arouet de Voltaire, (1694-1778) French Writer 1764

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Summer is upon us, 'tis time to look at the rocks!