

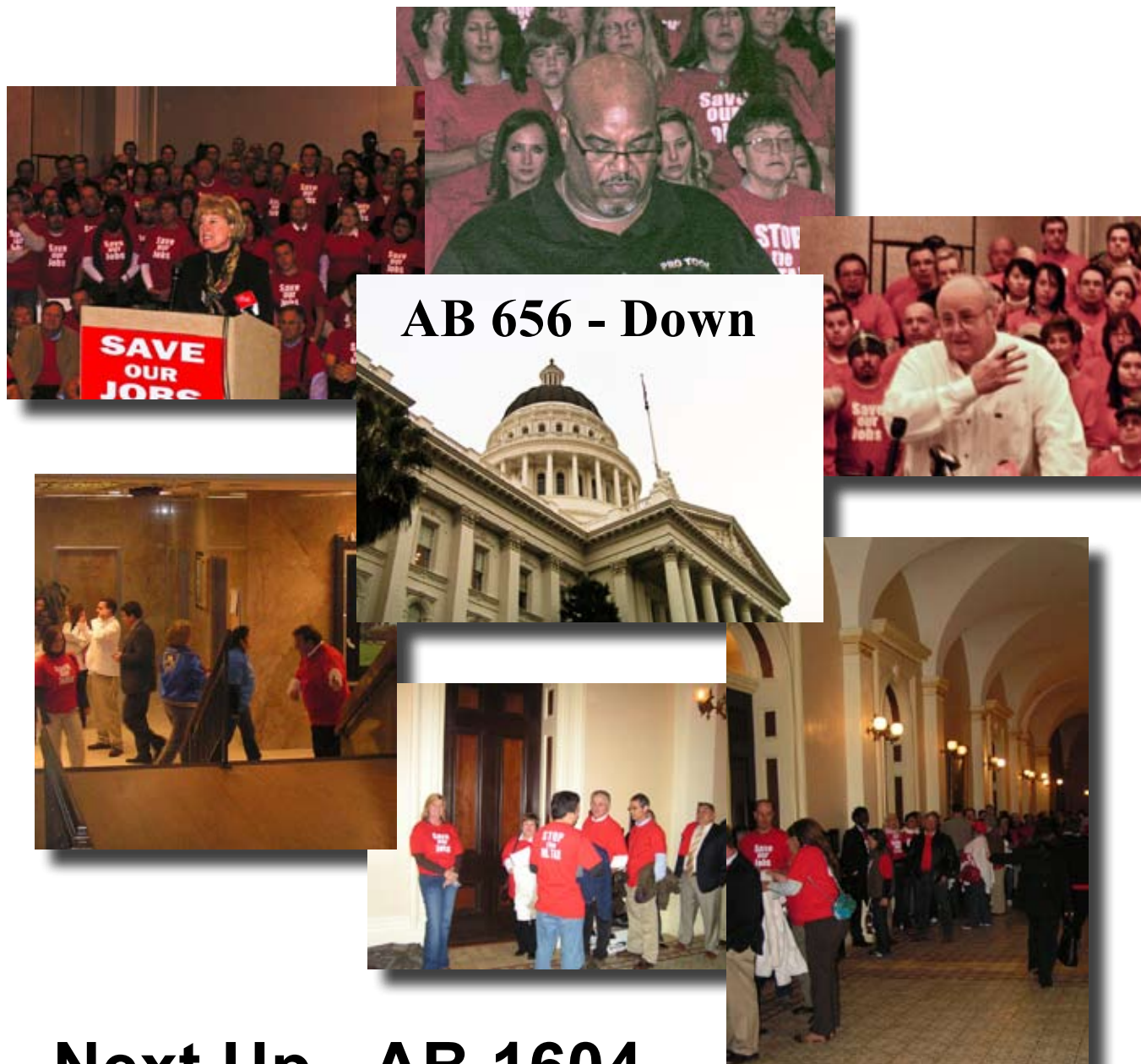


Pacific Petroleum Geology



Pacific Section • American Association of Petroleum Geologists

January & February • 2010



AB 656 - Down

Next Up - AB 1604

“The Oil Industry Fair Share Act”

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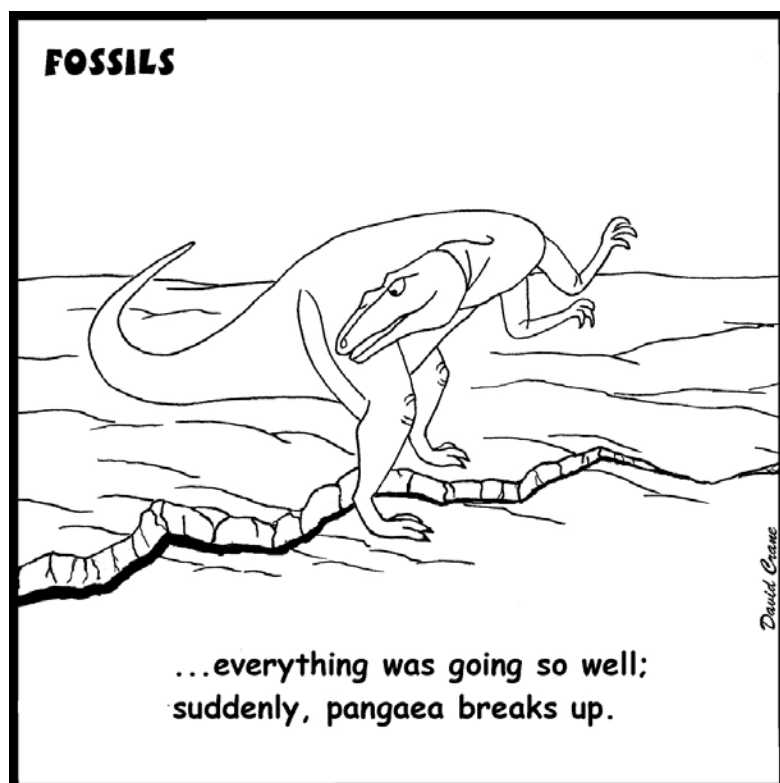
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MESSAGE FROM THE PRESIDENT

SCOTT HECTOR

The world may be facing its greatest energy crisis yet. There may not be enough oil to go around in just a few years! The International Energy Agency may have greatly overstated the ability of the world to produce enough oil to keep us living as we so desire. Despite the recent downturn in the world economy, most experts in the field of energy feel that the demand for oil will go up and up, and eventually exceed the ability of the world to produce it.

This idea is not new. As most geologists know, there was a geophysicist named M. King Hubbert who proposed the idea that the production of world oil would, over time, look like a bell shaped curve (to mathematicians, a "Normal" or "Gauss" Curve). When he proposed this idea in 1956, the peak of the curve had not yet been reached. Mr. Hubbert felt that the peak would happen in 1970, and he showed this when he presented both World and United States curves in 1974. However, people argue even today, with 40 more years of production data, as to when the peak was, is, or will be reached.

I have accessed a number of websites that discuss the Hubbert Curve to better understand

where we, the oil and gas professionals, sit on this curve. That is, if we sit on the curve. Many of the bold soothsayers are looking into a crystal ball, Hubbert's Gaussian bell and forecasting a terrible future for the worldwide and USA economy. They see a time in the not-to-distant future when the production of oil falls short of the world's need and drives the price to dizzying heights. Part of the dilemma that this will create is more complicated than many of you reading this report may suspect. Please, read on.

One of the best sites that I came across was one called hubbertcurve.com. This site had a list of some of the most famous analysts of the past, present and future of world oil production. These included: Dr. Albert Bartlett, Emeritus Professor, Univ. of Colorado, Boulder (author of *Forgotten Fundamentals of the Energy Crisis*, (1978)); Dr. Colin J. Campbell, Director, The Oil Depletion Analysis Centre; Dr. Cutler Cleveland, Director, Center for Energy and Environmental Studies, Boston University; Dr. Kenneth S. Deffeyes, Professor Emeritus, Princeton University (author of the book "Beyond Oil: The view from Hubbert's Peak"); Dr. Richard Duncan, (author, "The Olduvai Theory of Industrial Civilization"); Mr. L.F. "Buzz" Ivan-



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hoe, former Oxy economist and founder, The M. King Hubbert Center for Petroleum Supply Studies, Colo. School of Mines; Mr. Jean Laherrere, former TOTAL economist; Dr. Douglas B. Reynolds, Prof. Univ. of Alaska-Fairbanks; Mr. Ron Swenson, creator of "Swenson's Law", and Dr. Walter Younquist, Ret. Prof., Univ. of Oregon (author of the book "GeoDestinies: The inevitable control of Earth resources over nations and individuals"). I have had the good fortune of meeting one of these erstwhile individuals, Buzz Ivanhoe. He was very interesting to talk to, and his talks on world oil were very interesting. I have also heard another great speaker on the subject, Mr. Matthew R. Simmons of Simmons & Company, International.

Hopefully, discussion of the Oil Peak has peaked your interest by now. Most authors appear to think that the world will have trouble producing enough oil to meet its' needs by 2020 or 2030. Simmons feels that the global oil production peaked in 2005 at 73,728,000 barrels of oil per day. He has estimated the 2009 production to be only 71,723,000 barrels of oil per day. He feels that part of the problem is that there is no third party accounting for the oil and gas production statements made by many of the world's greatest oil producers, especially those that are members of OPEC. These topics are taken at face value by the OPEC Secretariat, the IEA and EIA: Total Country oil flows, potential oil producing capacity, remaining "proven reserves" and quality of flows and reserves. Simmons goes on to say "with no independent audits of flow, capacity and reserves" we are heading into a potential world-wide oil crisis "like heading into WWII without radar".

Simmons goes on further to say that his company has studied the fields of the North Sea (oil production peaked there in 1999) and in the onshore USA (oil production peaked there in 1980) and he sees that around the world there are accelerating rates of decline, diminishing flow size in most new discoveries, and rapidly declining flow of high quality oil.


I don't normally like being called or even associated with Zombies', but one of Simmons slides called me one. Yes, part of THE PROBLEM is not just the decline of oil but also the decline of the oil industry. These are additional problems as the world tries to cope with less and less abundant oil:

THE ZOMBIE LIST

- 1) Rusting oil and gas infrastructure
- 2) Graying oil field workforce
- 3) Lack of new pool of properly trained engineers and geologists
- 4) Diminishing oil field technological advances

I have the gray, I feel rusty, and I'm sure I could be better trained. OK, Zombie it is. Thank you, Mr. Simmons.

What about the hype about other sources of energy? I already alluded to this in my last message. It was with some amusement that I noticed that there were lawsuits from environmental groups stopping the start of a very large solar project in Southern California. Though the environmentalists want renewable sources of energy to replace non-renewable ones, they



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did not want this one where it was planned by a public utility in the desert because of ITS ENVIRONMENTAL FOOTPRINT. The area is inhabited by the desert tortoise and another endangered species, and the “sue-ers” were preferring that the “sue-ee” move the location of the project. To top this story, the New York Times reported on December 22, 2009 that Senator Diane Feinstein (D-Calif.) just introduced legislation that will protect 1 million acres of Mojave Desert land that will be “scuttling 13 big solar power plants and wind farms planned for the region”. The Times went on to say “But before the bill to create two new Mojave national monuments has even had its first hearing, the California Democrat has largely achieved her aim. Regardless of the legislation’s fate, her opposition means that few if any power plans are likely to be built in the monument area, a complication in California’s effort to achieve its aggressive goals for renewable energy”.

Another nugget that I dug up in this research is a comment by Dr. E.F Watt of U.C. Davis on the book “GeoDestinies” by Youngquist: “One particularly gripping part of the book is a 64 page treatment of proposed new alternative energy sources. All these imaginary panaceas turn to mists in a swamp at night when examined with the lenses of net energy and energy profit ratios. Nothing will replace what we are burning up quickly now. Every possible replacement has problems that have received little publicity”.

Where does this leave us, the petroleum geoscience professionals on the West Coast, USA? I think in a pretty good spot! I can’t say that I am intimately familiar with all of the oil producing basins across the area covered by the Pacific Region, but I know there are a lot of reserves left in Alaska and I know that there are millions of barrels of oil left in California. The Golden State still produces some 600,000 barrels of oil per day, not far below that 1,000,000 barrel a day “peak” that California hit back in 1968. Our production is dropping each year, but at a fairly

slow decline. God bless the 13 gravity crude oil! It will take decades and decades, perhaps hundreds of years, to finally produce the last of our heavy oil. I envision improvements over time that will unlock even more of this oil for production, or higher prices that will allow more and more of the California black gold to go to market. There is a good future in California for those that want to join the oil and gas industry. Take it from this one gray-haired “Zombie” who needs to be replaced by a young, well-trained geologist from one of our institutions of higher learning. This is a great industry to work in! Pass the word along!

Before I leave you, let me comment on the topic of the article. The baseball season is over, but I refer to the “Hubbert Curve Ball”. Changes in price might change that Hubbert Curve. Definitions of what oil you are talking about also can change the curve, as it is often described as “conventionally recoverable reserves”. I just read a 20-page dissertation by a mathematician concerned about why Hubbert did not reveal the equations for his curve. I think that those that envision Hubbert somehow pitching us a curve ball is not correct, but rather in the eye of the beholder. It was an attempt to create a simple presentation of a complex problem. I don’t think he meant to serve up a curve ball, but rather a fastball right over the plate. Any problems with his pitch is caused by the many that have tried to make too much of it. And struck out.

Cheers!
Scott T. Hector

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President and Ex Council, AAPG:

It is a very sad day when the geologic evidence for non-manmade climate change is published in the Wall Street Journal (Dec. 17, 2009 by Howard Bloom) instead of a geological publication such as the AAPG publishes.

My local delegate to the AAPG informs me that the AAPG “official” statement says we need “more research”. I guess that hundreds of millions of years of geological evidence is not enough for our brave organization to take a stand and inform the public that many climate changes have occurred without human influences.

He also informs me that within our membership any statement is “very controversial”. This implies that we also have no opinion on “cap and trade” legislation!

Perhaps our membership has too many members that have never looked at rocks or had any experience in the extractive industry. Maybe we should change our membership requirements!

I might also remind you that in the AAPG's own headquarters state, Senator Imhofe would probably welcome some geological input particularly the geological fact that Mother Nature has been able to “sequester or fix” billions of tons of carbon in our limestone, hydrocarbon and coal deposits all without man's or congressional help.

Also if we don't have a stand on legislation that can affect the oil industry, why do we maintain a paid lobbyist in Washington?

Hopefully, this time you will either answer this letter or print it in the Explorer. As a member for 57 years and a former AAPG office holder, it might be a courteous gesture!

R. A. Ortalda

Editor's Response

As California Goes...So Goes the Country

September 27, 2006: AB 32: Global Warming Solution Act signed into law by California Governor.

November, 2009: University of East Anglia Climate Research Unit email system hacked. Exposed emails suggests a conspiracy to hide detrimental information from the public that argues against global warmings.

January 11, 2010: Attempt to suspend AB 32 bill failed.

January 20, 2010: IPCC admits to “poorly substantiated estimates of rate of recession and date for the disappearance of Himalayan glaciers” in their Synthesis Report.

January 20, 2010: Chevron warned of unspecified workforce reductions in global downstream business.

January 22, 2010: Bureau of Labor Statistics - California loses 38,800 jobs in December, highest in nation.

Check and Balances

January 21, 2010: The Supreme Court campaign finance ruling means corporations (and non-profits) can spend freely on political ads leading up to elections.

When I first heard that AAPG had a committee on Global Warming, I thought that was beyond the scope of AAPG. The impact of global warming policies has certainly put this issue within the scope of AAPG: “The purpose of the organization is to foster scientific research, advance the science of geology, promote technology and inspire high professional conduct.” I also encourage AAPG to taking a more active role, especially now, with this Supreme Court ruling.

Geneva, 20 January 2010

IPCC statement on the melting of Himalayan glaciers¹

The Synthesis Report, the concluding document of the Fourth Assessment Report of the Intergovernmental Panel on Climate Change (page 49) state: “Climate change is expected to exacerbate current stresses on water resources from population growth and economic and land-use change, including urbanisation. On a regional scale, mountain snow pack, glaciers and small ice caps play a crucial role in freshwater availability. Widespread mass losses from glaciers and reductions in snow cover over recent decades are projected to accelerate throughout the 21st century, reducing water availability, hydropower potential, and changing seasonality of flows in regions supplied by meltwater from major mountain ranges (e.g. Hindu-Jush, Himalaya, Andes), where more than one-sixth of the world population currently lives.”

This conclusion is robust, appropriate, and entirely consistent with the underlying science and the broader IPCC assessment.

It has, however, recently come to our attention that a paragraph in the 938-page Working Group II contribution to the underlying assessment² refers to poorly substantiated estimates of rate of recession and date for the disappearance of Himalayan glaciers. In drafting the paragraph in question, the clear and well-established standards of evidence, required by the IPCC procedures, were not applied properly.

The Chair, Vice-Chairs, and Co-chairs of the IPCC regret the poor application of well-established IPCC procedures in this instance. This episode demonstrates that the quality of the assessment depends on absolute adherence to the IPCC standards, including thorough review of “the quality and validity of each source before incorporating results from the source into an IPCC Report”³. We reaffirm our strong commitment to ensuring this level of performance.

¹ This statement is from the Chair and Vice-Chairs of the IPCC, and the Co-Chairs of the IPCC Work Groups.

² The text in question is the second paragraph in section 10.6.2 of the Working Group II contribution an repeat of part of the paragraph in Box TS.6 of the Working Group II Technical Summary of the IP Fourth Assessment Report.

³ This is verbatim text from Annex 2 of Appendix A to the Principles Governing IPCC Work.

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ASSEMBLYMEMBER PEDRO NAVA
35TH ASSEMBLY DISTRICT
For Immediate Release: January 6, 2010
Contact: John Mann
Phone: (916) 718-7420

Nava Introduces Oil Industry Fair Share Act
New Legislation Introduced to Make Big Oil Pay

On the eve of the release of Governor Arnold Schwarzenegger's 2010-11 Budget Proposal, Assemblymember Pedro Nava (D-Santa Barbara) introduced, **The Oil Industry Fair Share Act, AB 1604**. The legislation will establish an oil severance tax of 10% on the gross value of each barrel of crude oil pumped by companies in California. This tax will provide more than \$1.5 billion in revenue to the General Fund annually. These desperately needed dollars could be used for public safety, education, health programs for children, human services, and other vital programs.

"California oil companies are getting a free ride. Right now, California is the only major oil producing state that does not charge a severance tax on oil extraction. It is time for California to catch up with Alaska, Texas, Alabama, and Arkansas. We need to collect the people's share of this revenue source by forcing Big Oil to pay its fair share," said Nava.

The Governor is advocating for a proposal to allow a single oil company to bypass existing environmental review processes and begin the first new drilling in Santa Barbara in California Coastal Sanctuary waters in more than 40 years, since the 1969 Santa Barbara oil spill.

Said Nava, "The Governor is placing at risk coastal recreation and tourism industries by advocating for new offshore oil drilling in the Coastal Sanctuary. This is just plain wrong and wrong headed. New drilling is not the answer and is not worth the risk. My proposal will generate more than \$1.5 billion a year without any new drilling or jeopardizing California's coastal environment and economy."

Nava's Oil Industry Fair Share Act has received broad support from many different organizations throughout the state:

"With \$18 billion in cuts to education, this could be an important source of revenue to save important services for our students," said Jai Sookprasert, the tax policy analyst for the California School Employees Association.

"Seniors have borne the brunt of these draconian budget cuts; we have seen a reduction in adult day health care programs that allow seniors to stay in their homes, the elimination of Alzheimer's research, and aid to low-income seniors has been slashed," said Gary Passmore of the Congress of California Seniors. "The Fair Share Act will bring much needed revenues to support these essential programs."

"Recent budget cuts are harming nurses' ability to provide for the critical health needs of people in our state," said Elizabeth Pataki, RN, of the California Nurses Association. "An oil severance tax could provide much needed revenue to help pay for Californians' healthcare needs."

"The last round of budget cuts has affected every Californian," said Willie Pelote of the American Federation of State, County, and Municipal Employees. "We are dismantling programs and need to ensure that sufficient revenue is available to mitigate the State's fiscal crisis."

"Oil companies have been making enormous profits while depleting finite natural resources and polluting the environment," said Gina Goodhill of Environment California. "It is time they pay their fair share."

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January 8, 2010

Statement on Governor Arnold Schwarzenegger's Proposed Budget

Plains Exploration & Production Company (PXP) has read the governor's proposed January budget update and is pleased that the many critical economic and environmental benefits that the Tranquillon Ridge (T-Ridge) project will bring to California continues to be recognized. PXP remains committed to working with the diverse and unprecedented environmental coalition in support of T-Ridge to educate Californians on the overwhelming benefits of the project at this critical time for California. PXP is hopeful the State Lands Commission will promptly rehear this issue as quickly as possible given the strong ongoing interest in the project.

The sooner the T-Ridge project is approved the sooner California can begin realizing revenue from the royalty activity. As part of the project, PXP has committed to advance \$100 million immediately to California's General Fund. Up to \$4 billion in state revenue will be generated over the next 14 years, depending on oil prices. PXP has also committed to donate nearly 4,000 acres of coastal area lands to The Trust for Public Land (TPL), including approximately 3,700 acres adjacent to the Burton Mesa Ecological Reserve in the Lompoc Valley and up to 200 acres on the Gaviota Coast, to be protected for open space and public access.

Two out of three Californians support the proposed T-Ridge project, according to a statewide field poll conducted in August 2009. The poll results show that support for the T-Ridge project is overwhelmingly positive among all party affiliations, with a majority of Democrats, nearly 75 percent of Independent voters, and four out of every five Republicans supporting the project. After hearing details about the project, 60 percent of Californians who identify themselves as environmentalists expressed support for the T-Ridge project. The County of Santa Barbara has already approved the project.

The T-Ridge project will allow PXP, one of the leading oil and natural gas producers and a National Safety Council 2009 Industry Leader Award winner, to access oil and gas reserves located in California state waters from a federal platform the company currently owns and operates four miles off the Coast of Northern Santa Barbara County. PXP will not have to build any new offshore or onshore facilities or pipelines for this project. The T-Ridge project includes an "end date" which will phase out oil drilling off the coast of California.



Highlights from Statewide Poll – August 2009

- 66 percent, 2/3 of California voters favor the T-Ridge project
- Support for the T-Ridge project is positive throughout California
- 60 percent of respondents who call themselves environmentalists favor the T-Ridge project
 - Support for the T-Ridge project is overwhelmingly positive among all party affiliations
 - A majority of Democrats favor the T-Ridge project
- Nearly 75 percent of Independent voters support the T-Ridge project
 - Four out of every five Republicans want the T-Ridge project
- Californians know about the project, in fact, nearly half of all respondents have heard of the T-Ridge project
- Most Californians would vote in favor of the T-Ridge project if it was placed on the ballot as an initiative
 - Voters who favor the T-Ridge project voiced they support it for several reasons, including:
 - “It would help California's economy and its budget problems, we need the revenues.”
 - It would, “Cut down on foreign oil dependence; we need to get oil from our own country.”

DIBBLEE GEOLOGIC MAP COLLECTION AVAILABLE FOR PURCHASE

The Dibblee Geologic Map Collection is the most complete compilation of geologic mapping of over one quarter of the State of California by one person. This collection is now available through several venues. 359 of Tom's maps are available in digital format. 60 of the original 76 are only available as scanned PDF files.

Dibblee Geologic Map Collection as CS4 .ai files

On a temporary basis as part of our fundraising efforts we are offering the complete Adobe Illustrator Dataset as CS4 .ai files. Data in this set is in a layered format. This will allow the user to examine and manipulate the data to incorporate it into their dataset. A presentation of the data set can be arranged.

At this time we are offering the 419 map set at a per-set price of \$54,470 + Tax. Appropriate prices can be negotiated for partial bulk sets such as the San Joaquin Valley or Ventura Basin.

We are asking for help in contacting the appropriate person within your company that might be able to determine your company's interest in acquiring this dataset. One major oil company has already acquired the dataset. This offer has never been made before this and may change as our funding goal is reached.

Dibblee Geologic Map Collection as Layered GeoPDFs on Datapages

The AAPG is featuring 359 of Tom's maps in digital format in the Datapages section on their web site for downloading as layered GeoPDF files. Maps will be added as they are digitized.

Dibblee Geologic Map Collection as printed map sheets

All Dibblee maps will continue to be available as printed map sheets. 60 of the initial map sheets are only available as printed maps.

Inquiries about the purchase of the map sets should be addressed to:

Dr. John Minch, Editor,
Thomas Dibblee Jr. Geology Center
Santa Barbara Museum of Natural History,
2559 Puesta del Sol, Santa Barbara, CA 93105
805-569-1800 - jmainc@earthlink.net

Contributions are also appreciated and can be made to the Dibblee Map Digitizing Fund, Dibblee Geology Center, Santa Barbara Museum of Natural History Attn: John Minch



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Timothy John Stephenson

July 23, 1957 - December 7, 2009

My beloved Tim finally got to 'go home' after a brief illness at the early age of 52. It was not the home I thought we were talking about but it was the home God knew was best. Tim was a wonderful man who touched lives everywhere. His calm nature simply drew people to him while his kind heart and sincere concern kept them there. He was always willing to help others and try to make their lives a little easier and he often did so without any fanfare or attention drawn to himself. His self-assurance, easy smile, kind heart and generosity made Tim a very special man.

Born in Ukiah, California, he spent his early childhood days in the Northern California area. Later he moved with his mom to Oxnard, CA where he developed a deep love of the ocean. As a teenager he learned to Scuba dive and worked on an Urchin boat. Tim's life's work was the oil industry. Starting out with Shell Oil in 1970's, then he moved to Bakersfield and started his own company 'Dynametrics' which he closed in 1998 so he could move his mother back to her hometown and family in Fulton, New York. While there, he took a break from oil and worked as an IT technician for a large non-profit and started his own computer business. When his wife took a job teaching in Arizona, Tim went to work for the school as their computer lab technician, needless to say the students loved Mr. Stephenson. However, oil began calling him back and in 2006 he accepted a position with PXP in Bakersfield, CA. He loved the Oil business.

His beloved mother, Lula; his father-in-law, Clyde; and numerous other family and friends who have preceded him on this new journey, greeted Tim in Heaven. Tim is survived by his loving wife and best friend, Ora: whose own life was changed by the love of a good man. Their five rescue dogs (did I mention that he had the patience of a saint?) Snowball, Blaze, Roxy, Rosie and Indy; his beloved sister, Ann Earls; mother-in-law, Bobbie Castleberry; sisters-in-law, Nancy Castleberry and Judy Lebon; brothers-in-law, Mike Earls, Clyde L. Castleberry and Donny Lebon; nieces, Kacey Lebon, Kelly Porter, Cindy Davis and Debbie Huber; nephews, Jason Pringle and Tyler Lebon; great nephew, Cameron Lebon; aunt and uncle, Gerry and Dick Emmons; aunts, Othell Pratt and Margaret Castleberry; cousins, Jim White, Carol and Louie Palmer, John and Donna Torrese; his dear friends, Mike Thorsen, Janet McAlee and Neosk Miller. Tim had many other family, friends, colleagues and co-workers. He will be greatly missed.



John Francis Matthews, Jr.

November 23, 1925 - December 3, 2009

John Francis Matthews, Jr. age 84, formerly of Bakersfield, passed away December 3, 2009. John enjoyed a petroleum engineering career spanning 59 years, starting as a drilling rig roughneck in the Oil Patch of Kern County in 1950. In 1953, John joined California's Division of Oil and Gas where he worked 23 years, highlighted by his appointment as Division Chief by Governor Reagan in 1971. After retiring from the D.O.G., John spent 39 years as an Independent Consulting Engineer, still actively practicing until his death. Predeceased by his wife of 55 years, Marilyn, in 2004, John is survived by a sister, Michele Stratton, his five children, John Matthews III (Lori) Jeannine McEvers (Duff), David Matthews, Maureen Matthews and Colleen Karlin (Larry) and six grandchildren, Steven and Ryan Matthews, Tay and Reily McEvers, and David and Rachael Karlin.



2010 PSAAPG - GSA Technical Program

The technical committee welcomes abstracts for the 2010 convention to be held in Anaheim, CA. The theme is “From Mountains to Main Street.” Please give immediate attention to the abstract deadline of **March 9, 2010**.

Oral Sessions

Reservoir Modeling
Fault-Associated Diagenesis and Fluid Flow
Miocene Tectonics and Structural Evolution of Coastal Southern California
Hydrogeological Resources of California
Carbon Sequestration
Wilmington Oil Field
Reservoir Geophysics: Extract More Out of Your Reservoir
Newport Inglewood Fault Zone
Petroleum Resources Offshore California
Petrology and Diagenesis of Oligocene and Early Miocene Reservoirs

Poster Sessions

California Oil Fields
Technology and Techniques
Student Posters

Please submit your abstract(s) to the technical committee through the GSA website:

<http://www.geosociety.org/sectdiv/cord/2010mtg/techprog.htm>

Follow the links to the instructions for abstract submittal. If you need a hard copy application form or have any questions, please call: Hilario Camacho at (562) 326-5219.

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Geologist Runs for the State Superintendent of Public Instruction Office

Karen Blake, a Bakersfield geologist, has announced her candidacy for the Superintendent of Public Instruction for the State of California for the 2010 election. Blake is a Republican.

Blake holds received her Bachelor's of Science degree from Sam Houston State University, in Huntsville, Texas. Since moving to California, Blake has been working in the petroleum industry.

Blake pointed out what she described as a "disconnect" between the near-bottom test scores of California student test scores and California's number one ranking in teacher pay. Blake further deplores the decline of students gravitating to math and science studies. "As America faces the energy challenges, it also faces a decline of students entering the sciences and engineering fields. The challenge of meeting an increasing demand for a technical workforce is complicated by the number of scientists and engineers approaching retirement age.", said Blake.

"California, once a leader in education, fell to 47th in the National Assessment of Educational Progress. It is time for a new perspective, coming from industry.", Blake concluded.

Contact:

Karen Blake

blake.ca2010@gmail.com

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Alaska Geological Society

www.alaskageology.org

P. O. Box 101288
Anchorage, AK 99510

Contact: Tom Homza
907.770.3701



Luncheon meetings are held monthly September through May, usually on the third Thursday of the month, at the BP Energy Center (1014 Energy Court) from 11:30 a.m. to 1:00 p.m. The hot lunch cost is \$20 for members with reservations; \$22 for non-members with reservations; and \$25 without reservations. The box lunch cost is \$13 for members with reservations; \$15 for non-members with reservations; and \$18 without reservations. For reservations, call the AGS reservation voice mail at 907-258-9059 or contact David Hite at hiteconsult@acsalaska.net by noon on Monday before the meeting.

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Coast Geological Society

www.coastgeologicalsociety.org

P. O. Box 3055
Ventura, CA 93006

Contact: Muriel Norton
muriel@subsea-usa.com



Dinner meetings are held monthly September through June, usually on the third Tuesday of the month, at the Poinsettia Pavilion, 3451 Foothill Road in Ventura. Social hour starts at 6:00 p.m., dinner is served at 7:00 p.m., and the talk starts at 8:00 p.m. The cost of dinner is \$18 (with reservations), \$25 (without reservations), or \$10 (students and K-12 teachers); the talk is free. For reservations, please email Christine White at cwhite@dcorllc.com or make reservations online at www.coastgeologicalsociety.org. Reservations should be made by 4:00 p.m. on Friday before the meeting.

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Los Angeles Basin Geological Society

www.labgs.org

515 So. Flower Street, Ste 4800
Los Angeles, CA 90071

Contact: Bill Long
213.225.5900 x 205



Luncheon meetings are held monthly September and October; and January through June, usually on the fourth Thursday of the month, in the Monarch Room at The Grand at Willow Street Conference Centre (4101 E. Willow Street) in Long Beach. Lunch is served at 11:30 a.m., and the talk starts at 12:15 p.m. The cost is \$20 (with reservations), \$25 (without reservations), or \$0 (students are covered by Halliburton and Schlumberger). Reservations can be made online at www.labgs.org or by contacting Marieke Gaudet at 562.624.3364 or marieke_gaudet@oxy.com. Reservations must be made prior to Tuesday before the meeting.

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Scholarship Program	Jean Kulla	949.500.3095	k2mobile@msn.com

Northern California Geological Society

www.ncgeolsoc.org

9 Bramblewood Court
Danville, CA 94506-1130

Contact: Barb Matz
Barbara.Matz@shawgrp.com



Evening meetings are held monthly September through May, usually on the last Wednesday of the month, at the Masonic Center (9 Altarinda Road) in Orinda. Social hour starts at 6:30 p.m., and the talk starts at 7:00 p.m. (no dinner). For reservations, leave your name and phone number at (925) 424-3669, or at danday94@pacbell.net before the meeting. Cost is \$5 per regular member; \$1 per student member; and \$1 per K-12 teachers (new!).

Northwest Energy Association

www.nwenergyassociation.org

P. O. Box 6679
Portland, OR 97228-6679

Contact: Tim Blackwood
503.656.0156



Breakfast meetings are held monthly September through May, usually on the second Friday of the month, at the Multnomah Athletic Club (1849 SW. Salmon Street) in Portland. Meeting time is at 7:30 - 9:00 am. The cost is \$18. For information or reservations, contact Treck Cardwell at 503-226-4211 ext. 4681.

President
Secretary

Tim Blackwood
Treck Cardwell

tblackwood@pacificgeotechnicalllc.com
t2c@nwnatural.com

Sacramento Petroleum Association

P. O. Box 571
Sacramento, CA 95812-0571

Contact: Rick Blake
925.422.9910



Luncheon meetings held monthly January through November, on the third Wednesday of the month. Location: Club Pheasant Restaurant in West Sacramento. The meetings starts at noon. The cost is \$16 - \$20. For information or reservations, contact Pam Ceccarelli at 916-322-1097x2 or Pam.Ceccarelli@conservation.ca.gov.

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blake2@ltnl.gov
M.brennen@Termasource.com
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San Joaquin Geological Society

www.sjgs.com

P. O. Box 1056
Bakersfield, CA 93302

Contact: Kurt Johnson
kurt_johnson@oxy.com



We have dinner meetings on the second Tuesday of the month at the American Legion Hall at 2020 "H Street" in Bakersfield. There is an icebreaker at 6:00 pm, dinner at 7:00 pm, and a talk at 8:00 pm. Dinner is \$20.00 for members with reservations and \$25.00 for nonmembers, \$25.00 for members without reservations and \$30.00 for nonmembers without, and the talks are free.

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