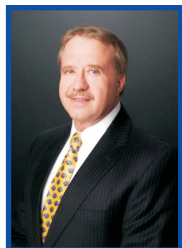


## The Baton Has Been Passed to a New Generation

by Daniel J. Tearpock, Chairman Emeritus



Now that the baton has been passed to a new generation of SCA Management, I want to take this opportunity to reflect on what SCA has accomplished over the past 25 years and what the new management team is committed to in terms of preserving the company's integrity and growth. We as a company will continue to honor a well-established tradition of ethics and technical expertise, and will strive to continually help all of

our existing and future clients in their quest to find more oil and gas through the assistance of SCA's consultants and training methodology.

Recently, I was diagnosed with Stage IV Pancreatic Cancer. I need not tell you the severity of this terminal disease. The SCA family has provided their unwavering support during these trying times. The new management team and staff is a dedicated group of professionals who will ensure the ongoing success of SCA and will remain faithful to its **Mission Statement and Philosophical Doctrine**. I wish them, and all of you, success and prosperity.

### SCA'S History and Accomplishments

I founded SCA in 1988, along with several ex-Tenneco managers, geoscientists, engineers, and bright business management executives. Over the past quarter century, we built SCA into a premiere consulting and training operation with a record of accomplishments in over 50 countries. Our client base includes over 350 companies; ranging from small independent, to large international oil and gas companies, from government institutions to OPEC companies, as well as financial institutions around the world.

(Continued on page 5)

### About SCA and geoLOGIC

*SCA is a worldwide petroleum industry leader in professional consultancy and advanced training services. From major synergistic field studies to sequence stratigraphy, from property evaluations to prospect reviews, our staff of geologists, geophysicists, and engineers have the expertise and experience to provide you with the very best consulting and training services available. Since 1988, we have helped our clients discover billions of barrels of oil equivalent and trained tens of thousands of professionals for the challenges of the new millennium. We are proud to serve you and hope you enjoy reading geoLOGIC. For more information on SCA, please contact us today.*

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## FROM THE PRESIDENT



As a provider of consulting and training services to the upstream oil and gas business, we at SCA have a keen interest in the demographic challenges facing our industry. The impending loss of large numbers of "baby boom" petro tech professionals over the next ten years puts strong pressure on the industry to continue aggressively hiring and developing fresh faces. SCA is engaged in the training of geoscientists and engineers, especially those at the earlier end of the experience spectrum, and helping to develop the skills that are fundamental to finding and developing oil and gas.

We are also actively seeking those geoscientists and engineers who in the final stage of their careers are retiring from full time employment and continuing to pursue their passion for finding hydrocarbons as consultants. These highly experienced individuals are playing a critical role in bridging the skills gaps for many companies, and are also serving the critical role of mentoring the next generation.

Multiple industry sources report steady hiring during the first half of 2013 and offer predictions of increased hiring through the end of the year. This includes full time and contract positions, and seems especially focused on the engineering disciplines. SCA has recently seen steady demand for veteran geoscience and engineering consultants, especially in the following areas:

- experience with unconventional reservoirs,
- geographic experience in West Africa, South America and the global deepwater plays,
- well operations and monitoring
- geo and engineering technical support and data management.

In coming newsletters we will discuss various aspects of the global competition for talent in the oil and gas industry, and offer our perspective based on interaction with our clients, consultants and training course attendees.

*Hal F. Miller*



## Exploring the Ten Habits: Habit Four - Using All of the Data

by Robert C. Shoup and Daniel J. Tearpock

In SCA's ongoing series of articles and blogs highlighting, "[The Ten Habits of Highly Successful Oil Finders](#)" we are now featuring Habit Four.

**Habit Four:** Successful oil finders use all of the AVAILABLE data to ensure that they have reasonable and accurate subsurface interpretations and three dimensionally valid maps.

Many years ago, I (Bob Shoup) had the pleasure of attending an AAPG fieldtrip with my friend Robert M. Sneider, AAPG Sidney Powers Medalist and discoverer of the giant Elmsworth deep basin gas area. Knowing that Bob Schneider had made a small fortune buying mature fields, I asked him to let me in on the secret to his success. His answer was:

*"If a company selling a field has their exploration and production offices in different cities, I will almost certainly buy the field. If their offices are in the same city but different buildings, I will probably buy their field. If they are in the same building, but different floors, I may buy their field. But if they are on the same floor, I won't even look at the field"*

I was at first disappointed by that answer, as it did not seem the sort of technical secret I could use to duplicate his success. **Truth be told**, I did not really understand the significance of his statement until years later when I took SCA's class "Applied Subsurface Geological Mapping". In that class, Dan Tearpock showed an example from a company that had drilled two dry holes in the middle of a producing field.

The field was located in an extensional tectonic setting and the trap consisted of a number of fault blocks associated with a major growth fault (Figure 1). The reservoirs consisted of deltaic sandstones and were producing from Fault Blocks B, C, and F under a depletion drive mechanism. Well No. 19 in Fault Block D was completed in a different horizon. After the completion of this new map on the 14,000' horizon, the company planned wells to drain Fault Blocks D and E based on available 3-D seismic, producing and non-producing well data, and production and pressure information.

Both wells proved to be uneconomic (cement storage facilities). After the wells were P&A'd, a detailed review was conducted using a variety of geological techniques including Quick Look Techniques, as presented in the textbook "[Quick Look Techniques for Prospect Evaluation](#)" by Tearpock, (contributing authors Bischke and Brewton), and as taught in several SCA training courses.

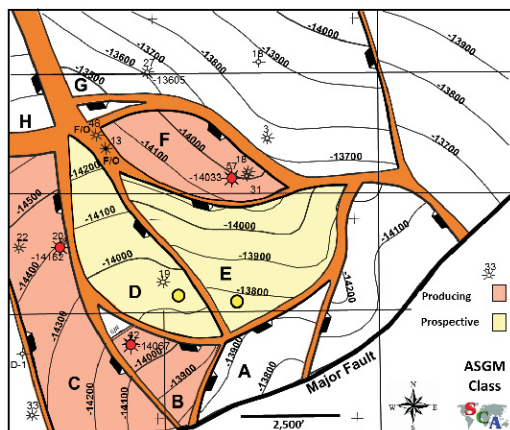
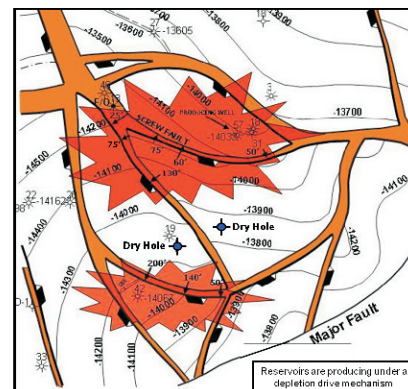


Figure 1: Proposed Locations for Fault Blocks D and E

Post Mortem evaluation techniques applied in this case that defined Prospects 1 & 2 as dry holes:

- Screw Fault
- Restored Tops Not used
- Invalid Fault Intersections
- Reversal of Dip Direction
- Discontinuity of structure across small faults
- Did not incorporate engineering data



A critical review of the map indicated a number of problems. For example, the contours in Fault Block C do not honor Well No. 20. Fault Block F dips toward the south, whereas all of the other blocks dip toward the north resulting in structural incompatibility.

Note that the fault that separates Fault Blocks E and F has zero or opposing vertical separation, referred to as a 'screw fault' in SCA's prospect evaluation text book and courses. There is contour incompatibility across a number of faults showing structural incompatibility of Fault Block F relative to the other fault blocks. Based on the number of map errors, management should never have drilled these wells; they were cement storage facilities from conception.

Besides all of the geoscience errors, there is a major engineering error in the work done; **they failed to use all the available data**. Well No. 13 was drilled into the fault gap. Had the interpreters calculated and used restored tops from this well for the mapped horizon, they could have better constrained their map and found a major structural and mapping error. More significantly, had they worked more closely with the reservoir engineers, they would have learned that the producing Fault Blocks B, C and F were producing under a depletion drive mechanism, and that Fault Blocks B and F had significantly overproduced the volumetrically calculated reserves. Well No. 57 had already produced 150% of the calculated reserves for Fault Block F and was down 50% of original pressure. Reservoir B had also out-produced the volumetrically calculated reserves, and the pressure was significantly lower than original pressure. **Where was this excess gas coming from?** Figure 2 shows after a detailed post mortem why the wells drilled in Blocks D and E ended up as dry holes. Figure 2 also illustrates the QLT techniques used to evaluate the original interpretation.

This question was answered when the two prospects were drilled. Fault Block E had the same reduced pressure as Fault Block F, and Fault Block D had the same pressure as Fault Block B. Additionally, the remaining reserves in these two fault blocks were insufficient to complete the two drilled wells.

I finally saw the wisdom in Bob Sneider's answer to my question of long ago when Dan Tearpock made the comment in the mapping class that "had the interpreters worked more closely with the reservoir engineers on the pressures and production, these two dry holes could have been avoided." When the interpreters and engineers do not work together, they are not communicating. When interpreters and reservoir engineers are not communicating, companies leave behind reserves, or drill unnecessary dry holes. (Continued on page 3)



The following was published with the AAPG Program materials in conjunction with Dan Tearpock's recent Honorary Member Award. We congratulate Dan on this remarkable achievement.

## D.J. Tearpock Receives the Honorary Member Award at the AAPG 2013 ACE

May 19-22, 2013 in Pittsburgh, PA

### Citation

To Daniel J. Tearpock, for his dedication to improving our industry through his contributions to the AAPG and DPA and by having taught and mentored thousands of geoscientists around the world.

### Condensed Biography

Few people in our industry have had as large an impact on the careers of so many geoscientists and petroleum engineers around the world as Dan Tearpock. Through his three best-selling text books and flagship course, *Applied Subsurface Geological Mapping*, and his Philosophical Doctrine, the 10 Habits of Highly Successful Oil Finders, Dan has helped thousands of individuals and dozens of companies to be more successful oil finders.

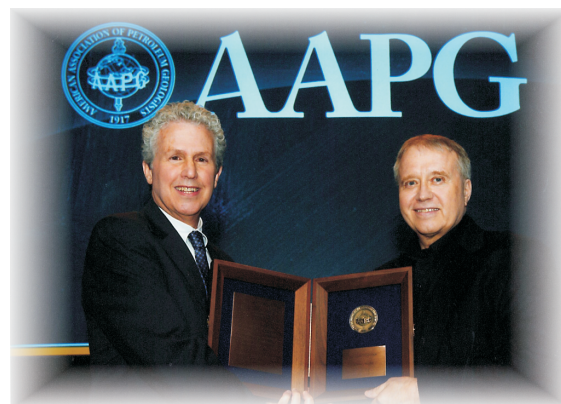
Daniel John Tearpock is the founder and Chairman Emeritus of Subsurface Consultants & Associates, LLC (SCA), which is an international petroleum consultancy and training firm. Dan built SCA into an internationally recognized, client-focused company that offers world class training and high quality consulting and staff placement.

Raised in Pennsylvania's coal-mining country, Dan's childhood was spent exploring the woods and mines close to his house, collecting fossils, quartz and other minerals and dreaming of exploring other planets. As a boy, his career path was already clear: he wanted to become a geologist.

Upon graduating from Bloomsburg University in 1970 with a B.A. in Earth and Planetary Science, Dan faced a tough job market in his chosen field. In response, he took strong initiative and started a computer consulting company, a business whose sale two years later provided part of the funds needed to return to school for his Masters Degree in Geology from Temple University (1977).

As a working geoscientist, Mr. Tearpock has generated numerous exploration and exploitation prospects, either as the sole generator or as part of an organized multidisciplinary team. He is the co-author of three textbooks, *Applied Subsurface Geological Mapping* (1991) ©, *Quick Look Techniques For Prospect Evaluations* (1994) © and *Applied Subsurface Geological Mapping With Structural Methods* (2003) ©. In addition to his three books, Dan has authored or co-authored numerous technical articles. He is a recipient of the AAPG Division of Professional Affairs 2012 Heritage Award and the AAPG 2013 Honorary Member Award. Mr. Tearpock was a finalist in the 1996 and 1998 Ernst & Young Entrepreneur of the Year program and in 1998 received the Distinguished Service Award from Bloomsburg University, Bloomsburg, PA from which he received his Bachelors degree in 1970.

Mr. Tearpock is a member of numerous associations including the AAPG, SPE, SIPES, SEG, GSA, HGS, EAGE, NOGS, LGS, IPA, SEAPEX & PESGB. He was the President of the AAPG's Division of Professional Affairs (10-11). He is a founding member and Vice-Chairman (09-11) of the intersociety "Joint Committee on Reserves Evaluator Training" (JCRET). The member societies represented in JCRET include the AAPG, SPE, SPEE, SEG and WPC.



Ted Beaumont, AAPG Immediate Past President, Chair, presenting Daniel J. Tearpock the AAPG Honorary Member Award



### "Ten Habits" in the News

Following Dan Tearpock's successful presentation of the "Ten Habits of Highly Successful Oil Finders" at the AAPG Playmaker Forum in Houston in January, we were happy to see coverage of his talk by both the *Houston Chronicle* and the *AAPG Explorer*. A video of the presentation can be found on YouTube, for those interested in seeing what sparked so much interest.



### Talking Offshore Ethics at OTC

Dan Tearpock was a featured Ethics Breakfast speaker at the annual OTC Annual Convention in Houston, Texas. The topic was "Ethics in the Dynamic Offshore Industry," presented to an audience of several hundred attendees.



### Exploring the Ten Habits: (continued from page 2) by Robert C. Shoup and Daniel J. Tearpock

**In our industry, failure to use all the data is one of the most common causes of dry holes.**

Geologic and analog databases are two of the more commonly under-utilized data types. Knowledge of the various fold geometries, and their relationship to the faults that form them are powerful tools for helping make accurate maps. Likewise, a strong understanding of depositional models is needed to properly interpret and map reservoirs. Analog databases can provide useful information for validating your reservoir interpretation and for constraining your reserve estimates.

**So, to be a successful oil finder, be sure to use all the available data!**

Want to learn how to use all of the data? SCA's "Applied Subsurface Geological Mapping" class will help you to integrate all of the available data to make accurate subsurface maps. Our "Clastic Reservoirs: Interpretation and Prediction" class will show you how to use all of the data, including analog data bases, to make accurate reservoir maps. SCA has an exciting training line-up featuring short courses tailored to the requirements of upstream professionals. Review our online training calendar and take the next step towards ensuring your oil finding career is a successful one for many years to come.

## SCA UPSTREAM TRAINING

## SCA FEATURED INSTRUCTOR:

Alan Cherry



Alan Cherry has been associated with SCA since 2005 and is currently one of SCA's Senior Geoscience Specialists. His integrated skill set includes strong 2D and 3D geophysical interpretation, field development, reservoir engineering, formation evaluation, economic assessment, reserves evaluation, drilling, completion, and production operations. He is exceptional in exploration prospect generation and screening experience. He has conducted numerous integrated field studies and is highly proficient in the use of multiple geologic and seismic interpretation tools. As an instructor, he teaches public sessions of SCA's "Seismic Interpretation Workshop", as well as several in-house courses.

Alan is part of an SCA team currently developing a new course that integrates fundamental geologic mapping principles with computer mapping software tools. Designed in response to participant and client feedback, this course will bridge the gap between the "tried and true" geologic principles taught in traditional pencil and paper mapping courses and the reality of today's workplaces that are heavily centered on workstation technology.

Mr. Cherry has over 26 years of industry experience. His areas of expertise include Offshore GOM, Texas Gulf Coast, South Louisiana, East Texas, Permian, Uinta - Piceance, Williston, North Slope, Cook Inlet, and onshore California. Internationally he has worked projects in Ukraine, Russia, Indonesia, North Sea, Senegal, Nigeria, Gabon, Tanzania, Morocco, Somalia, Iran, Qatar, Thailand, South China Sea, Ecuador, Venezuela, Argentina, and Colombia.

Mr. Cherry received his BS in Geology at the State University of New York and did his graduate studies at the University of Houston and Wright State University. He is a Licensed Professional Geologist in Texas and a Certified Professional Geologist in Indiana.



## OBTAIN YOUR CEU'S WITH SCA

SCA is certified by the International Associate for Continuing Education and Training (IACET) to award Continuing Education Units (CEU's) for its entire line-up of training courses.

Professionals who are required to obtain CEU's or Professional Development Hours (PDH's) to maintain their state, federal or society licensing, registration or certification, can now fulfill their requirements by attending SCA training courses. One (1) CEU is equal to ten (10) Professional Contact or Development Hours.

For more information, contact our Training Department today at +1.713.789.2444.

## 2013 UPCOMING TRAINING COURSES

**Basic Petroleum Geology**

July 22 - 26, 2013 (Houston, TX - 5 days) - J. Willis

**Drilling Basics for the Geoscientist**

August 5 - 8, 2013 (Houston, TX - 3.5 days) - B. Siegel

**Applied Subsurface Geological Mapping**

August 5 - 9, 2013 (Dallas, TX - 5 day course) - S. Agah

**Basics of the Petroleum Industry**

August 12, 2013 (Houston, TX - 1 day) - H. Miller

**Structural Styles in Petroleum Exploration and Production**

August 13 - 16, 2013 (Houston, TX - 4 days) - S. Mitra

**TX Hill Country Field Course**

August 17 - 18, 2013 (TX Hill Country - 2 days) - L. Taylor

**Applied Sequence Stratigraphy of Clastic Depositional Systems**

August 19 - 23, 2013 (Houston, TX - 5 days) - J. Snedden

**Applied Subsurface Geological Mapping**

August 19 - 23, 2013 (New Zealand - 5 days) - B. Shoup

**Cased Hole and Production Log Evaluation**

August 19 - 23, 2013 (Houston, TX - 5 days) - J. Smolen

**Economic Evaluation of Petroleum Opportunities**

August 26 - 27, 2013 (Houston, TX - 2 days) - E. Savage

**Practical Interpretation of Open Hole Logs**

August 26 - 30, 2013 (Houston, TX - 5 days) - R. Maute

**Shale, CBM and Tight Oil & Gas Reservoirs: Exploring, Appraising and Developing**

August 26 - 30, 2013 (Houston, TX - 5 days) - C. Jenkins

**Petroleum Geology of Deepwater (Turbidite) Depositional Systems**

August 26 - 30, 2013 (Houston, TX - 5 days) - R. Slatt

**Practical Seismic Exploration & Development**

September 3 - 6, 2013 (Houston, TX - 4 days) - J. Willis

**Applied Subsurface Geological Mapping**

September 9 - 13, 2013 (Houston, TX - 5 days) - J. Brewton

**Seismic Interpretation Workshop**

September 16 - 18, 2013 (Houston, TX - 3 days) - A. Cherry

**Basic Petroleum Engineering for Non-Engineers**

September 19 - 20, 2013 (Houston, TX - 2 days) - D. Lanman

**Modern Depositional Systems Field Course**

September 21, 2013 (Houston, TX - 1 days) - J. Wellner



*Reserve Your Seat Today!*

**Point...Click...Register!**

SCA's Website is User-Friendly and Convenient when signing up for Training Courses.

REGISTRATION should be made at least one month prior to the start of a course. Paid registrations will be accepted until the day before the course. Registrants will receive a confirmation email within 48 hours of registration and will receive complete venue information two weeks prior to the first day of class. Registration is confirmed upon receipt of payment.

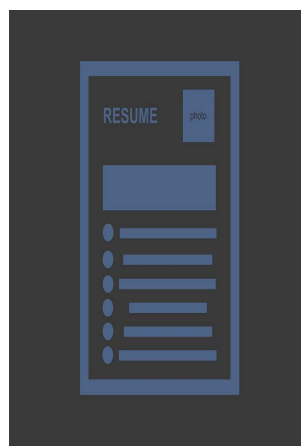
For a complete list of the 2013 public course schedule including course descriptions, target audience and dates available, please visit our website at [www.scacompanies.com](http://www.scacompanies.com)



## The Importance of Resume Layout

by Mark Connor, SCA Sr. Recruiter

Studies have shown that an experienced Recruiter will spend little more than six seconds scanning through a resume before making the decision to short list it or not. That may not sound like much, but in reality, that length of time can be even shorter. As we discussed in previous articles, Recruiters are looking for a very specific person, with a very specific skill set and very specialized experience. If the resume title reads to be significantly inappropriate to the position in question, the Recruiter will instantly move on to the next in their quest to find the "Golden Egg." It may seem cut throat to an outside observer, but trying to fit a square peg into a round hole will ultimately result in time wasted and business relationships damaged.



With this in mind, the easier it is for a Recruiter or Hiring Manager to determine whether or not you're a good fit for an open position, the better. Resume presentation and layout can be challenging, but the KISS rule (KeeP It Short and Simple) needs be applied here.

Begin the resume with a brief professional summary, keeping it objective and factual, no more than 1-2 sentences. As mentioned in previous articles, Recruiters are looking for evidence and information specific to your background in three main areas.

### "The BIG 3"

- 1) Technical specializations
- 2) Geographical areas of the world you have worked
- 3) Software you are capable of operating

After an objective professional summary, add 3 bullet points listing your experience in the "BIG 3", summarizing your entire career. Bullet points will make the information jump off the page and help to focus those 6 seconds of attention to the most relevant aspects of your background. Depending on what the Recruiter is looking for, you may have just earned yourself another 6 seconds!

Next, break your career history down by employing companies: listing the company name, your job title and dates you were employed there. Follow this with a brief summary of your role including general responsibilities and achievements, taking up no more than six to eight lines of text. Again, using bullet points to make the text easy to scan through, mention your experience in the "BIG 3" specific to your time spent at that company. If you have held multiple roles within the same company, make sure that it is clear to the reader that your tenure with the company was constant but your roles and responsibilities changed. Repeat the process for each company you have worked with over the course of your career (or each differing role within a company if you spent the majority of your career with one employer) and finish the resume by adding your education history and a highlight list of any publications you may have worked on.

Mark Connor is a Sr. Recruiter for  
Subsurface Consultants & Associates, LLC.  
He can be reached at [mconnor@scacompanies.com](mailto:mconnor@scacompanies.com).

## The Baton Has Been Passed to a New Generation

by Daniel J. Tearpock, Chairman Emeritus

(Continued from Page 1)

SCA has helped our clients find and develop over 6.5 billion barrels of oil equivalent. We have trained over 24,000 geoscientists, engineers, technical, management and support staff, offering over 80 petroleum related training courses from onshore to offshore and conventional to unconventional oil and gas resources. Our consulting expertise covers most of the geological basins around the world. In addition, we have served as expert witnesses for litigations ranging in value in excess of 22 billion dollars.

### The Future

The last 25 years have been an unbelievable, exciting, and challenging ride. I wish to thank all our clients for your confidence in SCA and I have appreciated the opportunity to work with you.

As someone who has been deeply involved in consulting and training for over 30 years, I will remain onboard as **Chairman Emeritus** to provide guidance and expertise to the company as long as my health allows.

I wish the best to the new SCA Management Team: Hal Miller, Jenifer Miller, Mary Atchison, Matt Nowak and Tim Riepe. I also want to thank the original management team, pictured below, for building the company from the ground up.



Thank you and best wishes for a great future.



### SCA Original Management Team



Joe Brewton



Dick Bischke



Hines Austin



Jim Brenneke



Paula Hebert



Renee Ory



Nicole McMoris



Jim Harris



## Data Mining as a Tool for Understanding the Granite Wash Play, Anadarko Basin

by Robert C. Shoup

### Introduction / Part 1

One of the first steps an interpreter should undertake when given a new assignment is a literature search, which is fundamental to see what information can be learned about the geology and exploration history of the new project area. Not so many years ago, this was a fairly easy matter. You went to the company library and conducted a search using key words or authors. You often got a list of a few pages that you could check relatively quickly.

Today, with so much information available from multiple sources, literature searches are now exercises in data mining. The interpreter must be able to screen many items and determine which articles are of good quality and are useful versus those articles that are not of good quality or are not helpful. If the interpreter cannot high-grade the list of articles quickly, they run the risk of wasting considerable time and of suffering from information overload.

### Literature Searches

A well-conducted literature search can help an interpreter quickly come up the learning curve for their project. A literature search can yield considerable information about the various elements of a basin's petroleum system, including source rock formations and geochemistry, key reservoir formations, and the basin's structural history.

The many company reports and industry articles available on the web also make it possible to collect information about a basin or a region's exploration and development history. Not too many years ago, it was all but impossible to find production statistics or any specific information on competitors' fields. Today, one can often find detailed information about a producing trend or about competitors' fields through an internet search.

### Data Sources

Literature searches using general Internet search engines (Google, Yahoo, Bing) will yield many articles. However, a great many of those articles will not be of much use to the interpreter. Compounding the problem, the information provided in some articles will conflict with the information in other articles, and a few articles will be misleading or even wrong. As such, it may take many hours of data mining to find a few relevant articles, hardly an effective use of an interpreter's time.

Because a search using general Internet search engines will include information from geological web sites (AAPG, GSA, state bureaus and surveys), an interpreter can usually save considerable time by starting their search directly on those sites. A search utilizing a geological site such as AAPG's Search and Discovery combined with a search from the local geological survey can often yield considerable useful information.

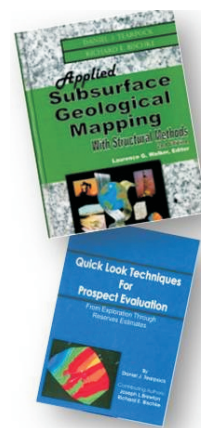
Since company archives and subscriber databases are limited to company employees or database subscribers, those resources will often provide more detailed information than is typically available via public domain internet sites. For example, the DAKS (Digital Analog Knowledge System) database, available from C & C Reservoirs Inc. has detailed information for hundreds of fields around the world. Information from DAKS can be used to provide analog performance data for any reservoir system.

*This concludes Part One of "Data Mining" by Bob Shoup. Please see the next edition of GeoLOGIC for a specific data mining example based on the Granite Wash Play.*

## TWO INDUSTRY BEST SELLING TEXTBOOKS TAUGHT & SOLD AROUND THE WORLD

**Applied Subsurface Geological Mapping with Structural Methods, 2nd Edition (2003)**, one of the most demanded and referenced texts on subsurface interpretation, mapping and structural geological methods is available from SCA, Prentice-Hall, various industry associations and internet bookstores around the world.

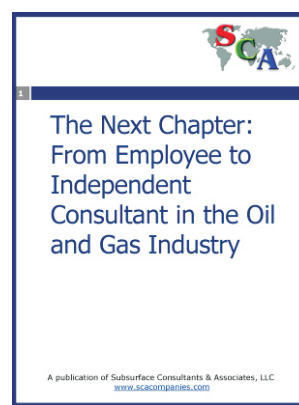
*The 2nd edition of the highly demanded textbook: **Quick Look Techniques: From Prospect Evaluation Through Reserves Estimates**, hit the market in 2007.*



*Publications can be purchased through our website*

## We Practice What We Teach

- SCA offers over 80 training courses taught by world-class instructors.
- The SCA training portfolio includes courses in Geology, Geophysics, Engineering, Cross-Training, Oil & Gas Economics, Field Courses and Management.
- SCA can customize a seminar or entire training program.
- SCA has taught over 24,000 Geoscientists and Engineers worldwide.
- Two SCA textbooks are foundation works for accepted practice in oil & gas exploration and development.



### "The Next Chapter"

Perhaps you've recently retired and find yourself ready to open a new chapter in your life. Or you are considering retirement, but want to stay professionally involved on your own terms.

With a career in consulting, you can enjoy greater flexibility, diverse project opportunities, and attractive compensation. Visit our webpage for the full document

Follow SCA on:



**Stay up to date with SCA's latest course offerings, career opportunities, special offers, blogs and publications, expert industry perspectives and more:**

[www.scacompanies.com](http://www.scacompanies.com)



## SCA on the Move

### New SCA Website Unveiled

SCA unveiled our new website mid-May, with a fresh look and feel reflective of our forward momentum as we celebrate 25 years in business. We encourage you to look around:

[www.scacompanies.com](http://www.scacompanies.com).



### AAPG 2013 ACE - May 19-22, 2013 in Pittsburgh, PA

While somewhat smaller in total attendees than in recent years, it was widely agreed that the AAPG Annual Convention in Pittsburgh was a success. Great speakers and conference events, well-appointed venues, and beautiful cityscapes made for an enjoyable stay in "Steel City", also aptly nicknamed the "City of Bridges."



It was a thrill for SCA staff, family and friends to watch Founder and Chairman Emeritus Dan Tearpock accept his well-deserved AAPG Honorary Member Award at the opening ceremonies. (We've republished his award citation and condensed biography in this issue so our readers can better understand the scope of the accomplishments being recognized.) Bob Shoup was on hand beginning with the pre-conference short courses, teaching "Black Belt Ethics" and "Quality Control for Subsurface Maps." SCA President Hal Miller, Vice President of Training Operations Mary Atchison, and Directors of Business Development Matt Nowak and Tim Riepe were all present at SCA's revamped display booth, meeting new people and connecting with colleagues and clients.

SCA staff enjoyed taking in an Astros/Pirates game at scenic PNC Park, the Astros won 4 - 2 in extra innings!



## The People and Activities of SCA

### SCA EMPLOYEE 2013 ANNIVERSARIES

January	Mary Atchison	2009 / 4 years
	Alison Greene	2012 / 1 year
March	Don Lanman	2004 / 9 years
April	Cheryl Reynolds	2003 / 10 years
	Tim Riepe	2008 / 5 years
May	Joseph Miller	2008 / 5 years
July	Cathy Jankovic	2011 / 2 years
August	Matt Nowak	2006 / 7 years
	Hal Miller	2004 / 9 years
	Donna Darilek	2010 / 3 years
September	Joe Brewton	1991 / 22 years
	Martha Hester	2008 / 5 years

### Bob Shoup Active on the Speaking Circuit

With only half the year gone, Bob Shoup has been an active presence on the Houston geoscience speaking circuit, with two presentations given to the Houston Geological Society, as well as a separate talk presented to the local Houston chapter of SEAPEX. Not bad for someone who spends half his time overseas! His topics have included:

"What are global temperatures doing, and why are they doing it?"

"Techno-stratigraphic framework and tertiary paleogeography of Southeast Asia: Gulf of Thailand to South Vietnam Shelf"

### Congratulations to SCA's

Mark & Cortney  
Connor

Lyla Connor  
March 15, 2013



Alison Greene &  
Keir Murray

Duncan Murray  
July 12, 2013



### SCA hosted the Spring GCP Event for the Ghana class at NASA in Clear Lake, Texas

June 19, 2013

Based on participant request, SCA's receptionist and 'GCP Counselor', Martha Hester arranged for the most recent Daniel J. Tearpock Geoscience Certification Program (GCP) class to take a day trip down to NASA for some fun and recreation.

After viewing what many consider to be one of Houston's top attractions, they enjoyed dinner at Bubba Gump's on the Kemah Boardwalk.

A great way to spend a well-earned day off!



L-R: Mark Prempeh, Lucie Nyamaah, Martin Kofi Adu, Obeng Kwasi Boadi, James Kofi Agbenorto, Richard Sakyamah

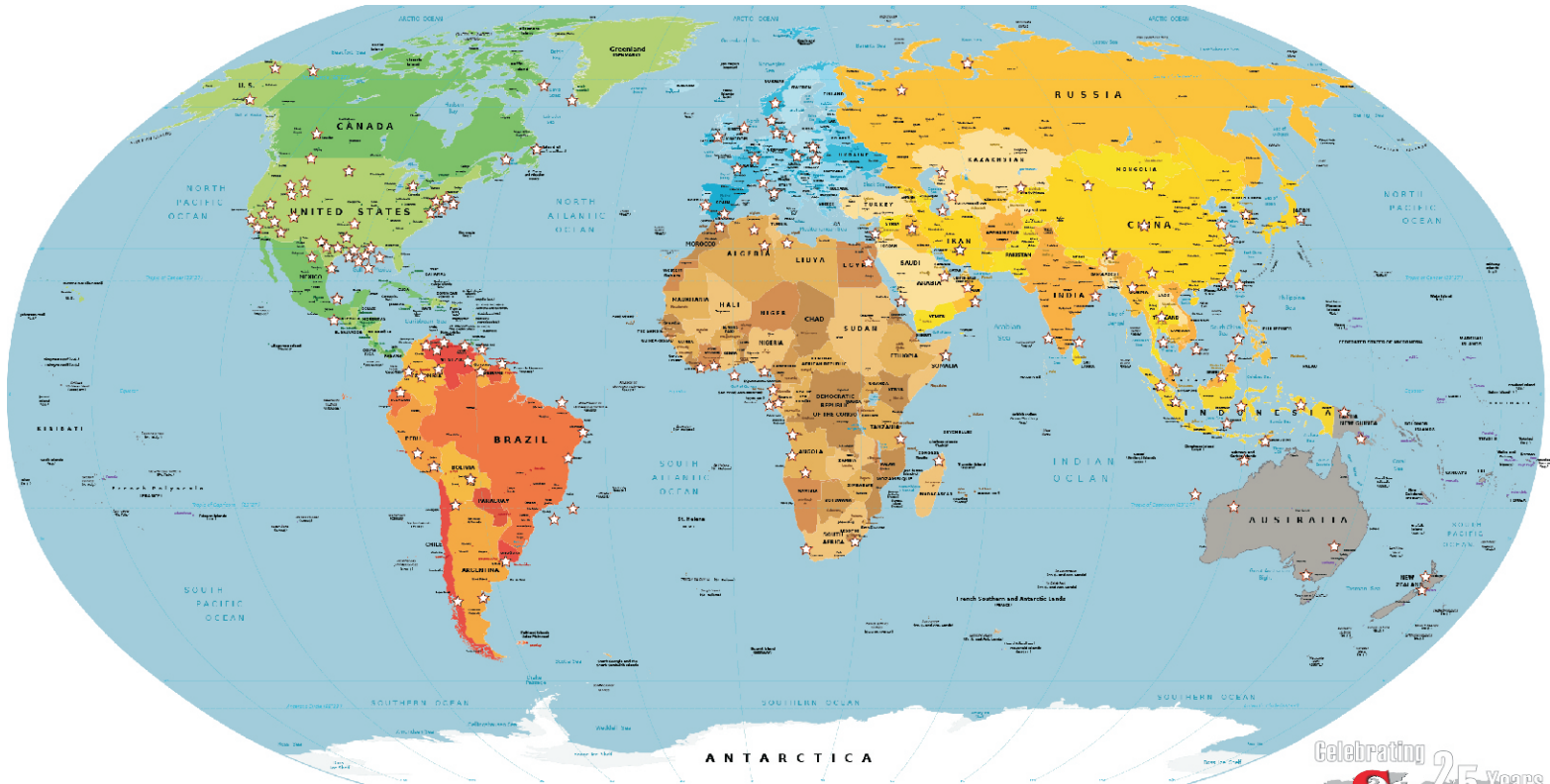
## Upcoming E & P Industry Events -2013

August 12 - 14, 2013  
 August 14 - 16, 2013  
 September 8 - 11, 2013  
 September 30 - October 3, 2013

URTeC fueled by SPE, AAPG and SEG  
 Summer NAPE  
 AAPG ICE  
 SPE Annual Technical Conference and Exhibition

Denver, CO, USA  
 Houston, TX, USA  
 Cartagena, Colombia  
 New Orleans, LA, USA

## SCA's CONSULTING AND TRAINING SERVICES



**REACH AROUND THE WORLD !**



## SUBSURFACE CONSULTANTS & ASSOCIATES, LLC MISSION STATEMENT

TO BE THE LEADER IN PETROLEUM CONSULTANCY AND TRAINING,  
 BY PROVIDING SUPERIOR QUALITY PRODUCTS AND SERVICES, WHILE MAINTAINING PROFITABILITY

### THIS IS TO BE ACCOMPLISHED BY:

1. providing superior quality products and services that fit the needs of our client,
2. consistently applying our proven philosophy and methodology for finding and developing oil and gas reserves,
3. employing the best people available and providing an effective and enjoyable work environment,
4. maintaining current industry tools, technology, and thinking,
5. providing social and financial benefits to our company, people, clients, industry and community.