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SPE Distinguished Lecturer Series Luncheon

Date: Thursday, November 13, 11:30 am

Speaker: Ron Sawatzky – SPE Distinguished Lecturer

Topic: Cold Production : Recovery Mechanisms & Field Performance

Place: BP Conference Rooms A & B

Please RSVP Robert Younger at younger2@bp.com before November 10th.
Luncheon cost is \$20.

Abstract

Cold production is a method for enhancing primary production from heavy oil reservoirs by producing sand aggressively along with the heavy oil. It has been applied with commercial success in the area surrounding Lloydminster, Alberta, Canada. Oil production rates are improved substantially in this recovery process through the creation of regions of increased permeability - wormholes. The process seems to key on the formation and flow of foamy oil into wormholes, as they grow into the reservoir. The wormholes provide significantly increased access to the reservoir. This lecture will have two themes: a description of the dominant recovery mechanisms, foamy oil flow and wormhole network growth, obtained from laboratory-scale investigations; and, a description of field performance, illustrated through case studies involving field data and field-scale reservoir simulations.



Ron Sawatzky is a senior research scientist in the Heavy Oil & Oil Sands business unit at the Alberta Research Council. He holds B.Math. (Hons.) and M.Phil. degrees in applied mathematics from the University of Waterloo, and a Ph.D. in applied mathematics from the University of Alberta. He has 18 years of experience working in research and development for in situ heavy oil recovery processes. For the past 15 years he has served as one of the team leaders for

ARC's cold production research group. He has been invited to participate in heavy oil activities organized by SPE, including a Heavy Oil Forum held in Cascais, Portugal (2006), an ITOHOS held in Calgary, Alberta, Canada (2005), and an ATW on Field Management of Mature Wells held in Vienna, Austria (2004). During the past 3 years, together with two industry colleagues, he has offered an industry training course on cold production annually for the SPE Calgary section and upon request for individual heavy oil producers in Calgary, Lloydminster, Venezuela, and Alaska.

Monthly Luncheon Schedule

Date	Location	Speaker	Topic
11/13/2008	BP Building CR B & C	Ronald Sawatzky	Cold Production: Recovery Mechanisms & Field Performance
12/3/2008	BP Energy Center	Trina Cooper	Completion of a Horizontal Well With Swellable Packers to Control Water Production

To volunteer as a speaker for the 2009 schedule or to suggest others with outstanding topics of technical interest, please contact Bob Younger, Alaska Section Program Chair.

younger2@bp.com

(907) 564-5392

December SPE Luncheon

Date: Wed. December 3, 11:30 am

Speaker: Trina Cooper

Topic: Completion of a Horizontal Well With Swellable Packers to Control Water Production

Place: BP Energy Center

Please RSVP Robert Younger at younger2@bp.com before Dec 1.
Luncheon cost is \$20.

Abstract SPE Paper 116263

A long horizontal sidetrack was drilled into the thin Sag River formation in the Prudhoe Bay field in Alaska. Original plans included a well completion with a simple slotted liner. However, lost circulation and water-swept zones in the production section made a solid, cemented, and perforated completion necessary. At a certain point of total losses in the drilling of the well, seawater replaced the original drilling fluid. This allowed the well to be drilled, but complicated log interpretation and perforation placement from the seawater invasion.

There was a risk of a channel developing in the cement along the top of the well during the primary cement job due to the length of the horizontal section. A swept and faulted section in the middle of the well held the largest risk of excessive water production, therefore four packers which swell in specific reservoir fluids helped isolate this problematic section from a possible channel. The horizontal length of the well, the high risk of losses, and the four swellable packers made the cement job challenging. The completion team had several options available for the cement job. The team ultimately chose a one stage job with additional excess volume and loss circulation material added. Closely monitored returns ensured the accuracy of the cement calculations, and a back-up plan for a top-down job was available if needed. The ultimate success of the primary job made the back-up plan unnecessary. After completing the primary cement job, just over 1300 feet of perforations were shot in the well.

The ability to change completion plans at the last minute allowed the installation of a successful completion with swellable packers which controlled water production. Also, an effective cement job proved possible even with multiple swellable packers in the well.

Trina presented this SPE Paper 116263 at the 2008 Annual Technical Conference and Exhibition held this September in Denver. Co-authors of the paper re Katrina Cooper, SPE, Adrienne McVey, Daniel Schafer, SPE, and J.D. Cox, BP, Nathan Hilleary, SPE, Schlumberger, Donald Parker, SPE, Petroleum Equipment & Services, Inc., John Crooks, SPE, TAM International.

Biography

Trina Cooper was born and raised in Alaska, even spending some time in a small village in western Alaska and 1989 valedictorian of East Anchorage High School. She graduated in 1994 with a BS in Chemical Engineering from the University of Washington at Seattle and immediately began working for BP. Trina has worked in North Slope operations, Prudhoe Bay Facilities Development Engineer, and held reservoir engineering and production/wells engineering and lead technical positions in Milne Point and Greater Prudhoe Bay. She is currently the East Waterflood Subsurface Team Leader. She is a registered professional Petroleum Engineer and has been an SPE member for many years.



Thank you Tom

for your service to SPE and to the citizens and oil industry in Alaska

Additional Readings

"Our giants paved way to prosperity" by Tim Bradner, Anchorage Daily News, October 25, 2008. <http://www.adn.com/money/story/567887.html>

Excerpts from Tom's Biography from the soon to be published 50th Anniversary Publication of the Alaska Oil and Gas Conservation Commission. Article named "The Discovery of Prudhoe Bay – How a Huge Oil Find was Almost Lost", Tim Bradner, AOGCC.

Finally see "Crude Dreams: a Personal History of Oil and Politics in Alaska" Jack Roderick, November 1997.

Tom Marshall - 50 Year Continuous SPE Member

The Alaska Section SPE Chairman Tim Crumrine presented Tom Marshall with a 50 year Continuous SPE Membership Award at the November SPE/AADE luncheon.

Tom was born in Nebraska in 1925 and, after serving in WWII, earned a geology degree from the University of Colorado, Boulder. After graduation, he worked oil and gas exploration in Rocky Mountains.

Tom moved to Alaska in 1958, at start of oil development in Cook Inlet and homesteaded near Wasilla. In 1960, Marshall signed on as a land selection officer with the newly organized state Department of Natural Resources to help choose lands from the 103 million acre land endowment the federal government had conferred when the Alaska Statehood Act was passed.

Some were in favor of acreage near settled communities, forest lands, or lands with mining potential. The oil industry favored land to the South in the Brooks Range foothills. Marshall favored a diagonal coastal strip of land on the Beaufort Sea Coast of Arctic Alaska. Marshall realized that any oil discovery on the Slope, to be economic, had to be huge. The broad coastal area of the slope looked similar to basins he'd worked in Wyoming, with thick sedimentary rock formations that cropped out on the eastern North Slope and appeared in the western and southern slope. But, there were no oil seeps or other indications of petroleum in the region.

State leaders didn't take Marshall's advice at the time; but the selection difficulties were eventually overcome. In 1984, acting on Marshall's recommendation, Natural Resources Commissioner Holdsworth and Director Roscoe Bell convinced Governor Bill Egan to agree to the plan. The state filed its first North Slope land selection covering 1.59 million acres of lands along the coast and held its first lease sale that year.

13 successive dry holes were subsequently drilled on these lands. The coastal selection recommendation was referred to as "Marshall's Ice Box" and "Marshall's Folly" by some. In a last ditch attempt, Atlantic Richfield and Humble Oil (now Exxon Mobil) drilled Prudhoe Bay State No. 1 in 1967-68, the discovery well for the super-giant Prudhoe Bay oil field.

The rest of the story is history. The pipeline was built, oil flowed, and today we have a wealthy state government, the Permanent Fund and \$2,000 dividends. Tom, in his usual modest fashion has always been quick to say that industry, which took the risks that led to the discovery at Prudhoe Bay, is the real hero.

Tom served as Executive Secretary for Alaska Oil and Gas Conservation Committee ("AOGCC") (1965-1978) and Chief Petroleum Geologist (1969-1978) for Division of Mines and Minerals, Alaska State Department of Natural Resources (DNR). In his work for the AOGCC, he handled all phases of oil and gas regulatory activity from issuing drilling permits to instituting conservation order (including Prudhoe Bay Unitization and Pool Rules). Tom retired from State service in 1978 and continued to consult into the '80s.

Tom is a Certified Professional Geologist, member of American Association of Petroleum Geologists, past president to both the Alaska Geological Society and Alaska Chapter of American Association of Professional Geologists, and has received many awards.

At the SPE/AADE luncheon, Crumrine thanked Tom for all he's done for SPE, the Alaskan oil industry and the citizens of Alaska.

Tom stated that SPE has rewarded him throughout the years, especially in the many friends and associates he has made over the years. Tom gave the following advice to those present. "Stay in SPE!"

Annual Technical Conference and Exhibition Photos

2007-08 SPE President's Award for Section Excellence!

The Alaska Petroleum Section was selected to receive the 2007-08 SPE President's Award for Section Excellence. This prestigious award recognizes SPE sections whose efforts in membership development, member programs, technology dissemination, cooperation with other civic and professional organizations are exceptional and much more. This is the first time we have received this award in the Alaska SPE Section's 50+ year history



SPE President Dr. William Cobb presents the 2007-08 SPE President's Award for Section Excellence award to the 2007-2008 Alaska Section Chair, Christopher Jenkins, during the President's Luncheon of the SPE Annual Technical Conference and Exhibition (ACTE) in the Colorado Convention Center (CCC), Denver, Colorado.

Great Job Alaska SPE Section!



Special thanks to the outstanding leadership of the outgoing Section Chair

Chris Jenkins

Tim Crumrine Recipient of 2008 SPE International Young Member Outstanding Service Award!

Tim Crumrine was a recipient of the SPE International Young Member Outstanding Service Award.

Tim has served for many years on the SPE International Young Professionals Coordinating Committee, helping young professionals to be active in SPE and prepare for future leadership roles in the Society and throughout industry. Tim spearheaded development of programs and activities designed to meet these goals (among them SPE's Ambassador Lecturer program). Tim served locally as our section's Young Professionals Committee Chair, and is currently Section Chair for 2008-2009.



Tim Crumrine

Recipient of the
2008 SPE
International
Young Member
Outstanding
Service Award



SPE President Dr. William Cobb presents 2008 SPE International Young Member Outstanding Service Award at the 2008 SPE Annual Technical Conference and Exhibition (ACTE) to Tim Crumrine and other recipients.

New SPE Regional Scholarship Program

SPE has started a new scholarship program that will be administered regionally through its 15 Regions. The program will start in the Fall Semester / Quarter of 2009. SPE will award

- 15 student scholarships valued at a maximum of USD 5,000/year, renewable yearly, for up to four years and
- 15 fellowships valued at a maximum USD 10,000/year, renewable yearly, for up to four years.

As the number of SPE regions changes, adjustments to this program will be made. SPE's commitment to this program is more than USD 1 Million. Note: Applications are due by 15 December to the SPE office that supports our Region.

The plan is for faculty sponsors of all the student chapters in our region to meet and determine the selection method for each category. After receiving their recommendation, a Regional Scholarship Committee will be assembled to operate as the selection committee. See Website for further details.

Thanks to all who helped make the BBQ Fundraiser a Success!

Annual AK SPE BBQ Fundraiser

The Nov. 5 SPE BBQ Scholarship Fundraiser was a great success thanks to all the generous sponsors and volunteers. We wish to thank the following sponsors.

<u>Platinum Sponsors: \$2000 donation</u> <ul style="list-style-type: none">• PDS• Alaska Frontier Constructors• Nabors Alaska• ExxonMobil	<u>Gold Sponsors: \$1000 donation</u> <ul style="list-style-type: none">• BP Exploration, Alaska• ConocoPhillips• Petroleum News• NANAColt Engineering, LLC• Welltec• Shell Exploration & Production
<u>Silver Sponsors: \$500 donation</u> <ul style="list-style-type: none">• Expro• OilTracers• Doyon Drilling• Weatherford• FMC Corporation• Marathon Oil Company• Dowland-Bach• Nalco Energy Services• Schlumberger Oilfield Services• Petroleum Reservoir Data• Petrotechnical Resources of Alaska• CH2MHill• Tuboscope	<u>Bronze Sponsors: \$250 donation</u> <ul style="list-style-type: none">• Arctic Lift Systems• Udelhoven Oilfield System Services• Halliburton• Champion Technologies• Little Red Services• Prudhoe Bay Hotel• Fairweather E&P Services

Very special thanks to Amanda Rebol who lead the organization of the event, and the many other SPE volunteers!

Not a member?
Join online
[www.spe.org/
spe-app/spe/
membership/
joinspe/index.
htm](http://www.spe.org/spe-app/spe/membership/joinspe/index.htm)

The brightest minds of the E&P industry are members of SPE. Join the diverse, worldwide community and be part of the industry's bright future.

Would you like to serve in SPE?
Please volunteer!

Contact:

Tim Crumrine
(907) 265-6402

For more information go to

[www.spe.org/
events/wrm](http://www.spe.org/events/wrm)

2008 Membership Drive

The 2008 SPE Membership Drive has been extended to November 30, 2008.

The Rules...

- Sign up as many "new" members as possible
- Send an e-mail to chidiebere.igbokwe@bp.com when you sign up member
- Referral's name goes on section 8 of application
- Contest is now "*extended to end of November 2008*"
- Winners to be announced at the December, 2008 luncheon and names will be published in December, 2008 newsletter

The Prizes

- 1st Prize: Gift card to one night stay at Alyeska Prince Hotel
- 2nd Prize: iPod Shuffle
- 3rd Prize: Weather channel wireless weather station

...New members will be entered to win a \$30 Orso gift card and a \$15 iTunes gift card

SPE is not just for Engineers. Although engineers are the core of SPE's membership, not all SPE members are engineers. Solving the industry's challenges requires a multidisciplinary effort, and SPE is a place for all of today's industry professionals, regardless of experience or course of study. Facilities, management, information technology, environmental and safety professionals are needed to expand and deliver the supply of oil and gas and can find a home at SPE, with access to valuable technical information and industry contacts and forums.

SPE Membership Requirement

Professional Member

- Employment in work related to the petroleum industry AND one of the following
 - a. A university degree equivalent to a 4-year Bachelors degree in engineering or basic or applied sciences
 - b. A 2-year science or engineering degree or a 4-year degree in a field other than science or engineering
 - c. 6 years of active practice in support of petroleum engineering or in the application of science to the petroleum industry.

Student member

- Must be enrolled in a course of study leading to an undergraduate or graduate degree in petroleum engineering or related field AND
- Must be carrying at least 30% of a normal full-time academic load

[Note: Chevron Corporation will cover the cost of student membership in 2008.](#)

Join online www.spe.org/spe-app/spe/membership/joinspe/index.htm

SPE Western Regional Meeting

The Golden Gate section will host the 2009 SPE Western Regional Meeting at the Double Tree Hotel in San Jose, California on March 24-26, 2009.

This conference offers a full set of topics on interdisciplinary work under the theme "New Solutions for Maximizing Recovery and Value" and provides a platform to discuss solutions to the challenges faced by the diverse set of operators in the Western North America Region. These challenges and solutions are also widely applicable to operations in other parts of the world. The comprehensive technical and continuing education programs will include a collection of technical, poster, and panel sessions; short courses; field trips; an exhibition; and rewarding student activities.

For more information go to www.spe.org/events/wrm.

Alaska Section Membership Update

	<u>Aug-2008</u>	<u>Sep 2008</u>		<u>Aug 2008</u>	<u>Sep 2008</u>
Full	537	537	Transfer In	2	4
Student	75	78	Transfer Out	4	5
New/Re-Instated	7	8			

New Members:

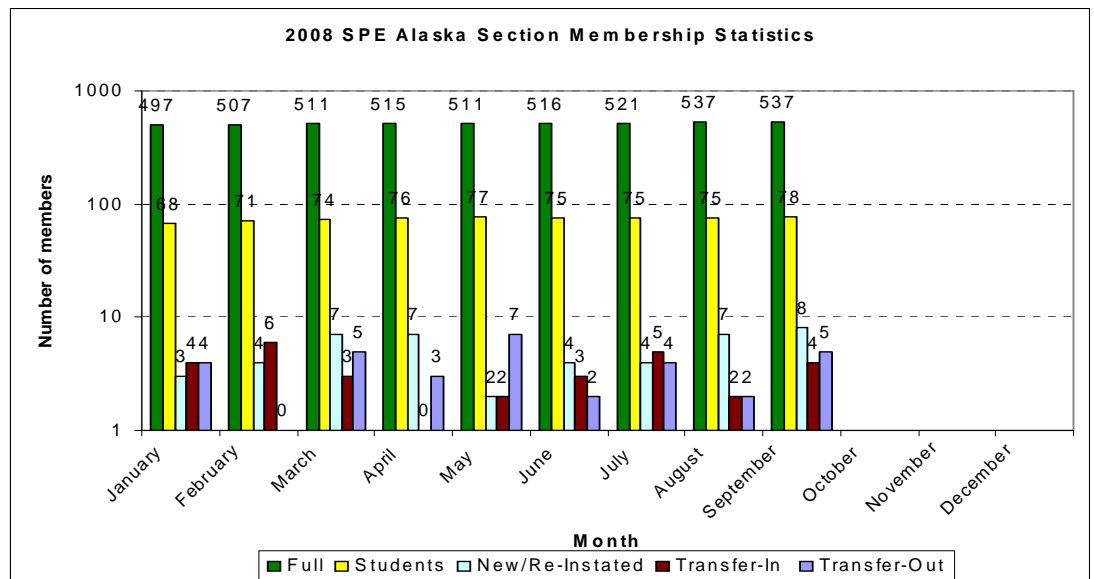
<u>Name</u>	<u>Title</u>	<u>Company</u>
Alan R Dennis	Royalty Manager	State of Alaska
Jeremy O Mardambek	Jr Engineer	ConocoPhillips Co
Mark R Miller	Manager, Computing Services	ConocoPhillips Alaska
Bartholomew Roberts	Technical Sales and Service	GMA Al Salmeen QCS
William P Service III	Exploration & Production Engg.	ConocoPhillips Co
James M Willingham	Workover Operations Superintendent	BPXA
Chee Wong	Regional Manager	TD Williamson, Inc.
Floyd G Bates	Sr Staff Reservoir Engineer	Pioneer Natural Resources USA
Robert Chivvis	Petroleum Engineer	BPXA
Gregory A Griffin	Technical Professional	Halliburton
Susan L Harvey	Owner	Harvey Petr. Consultants Inc.
Scott L Lowry	Staff Drilling Engineer	ConocoPhillips Co
Jovy Roach	Operations Drilling Engineer	BP
Muhammad N Shaikh	Project Manager	BP Exploration (Alaska)
Bradley Smith	OFS Account Manager	Schlumberger

Transfer-In:

<u>Name</u>	<u>Title</u>	<u>Company</u>	<u>Transfer From:</u>
John R Boeger	G-Pad Engineer	BP Alaska Exploration Inc.	Gulf Coast
Stephen D Robbins	Retired	Marathon Oil Co.	Gulf Coast
Robert S Nash	Drilling Engineer	Chevron North American E&P	Aberdeen
David A Ross		InTuition Energy Associates	Gulf Coast
Michael W Wheatall	Drilling & Wells Manager	ConocoPhillips Alaska Inc.	Gulf Coast
Jerome D Herrmann	Junior Engineer	ConocoPhillips Co	South Plains

Transfer-Out:

<u>Name</u>	<u>Title</u>	<u>Company</u>	<u>Transfer Destination</u>
Meghan R McKee	Facility Engineer	El Paso E&P Co.	Denver
Joe E Hess	Senior Technical Professional		Halliburton Energy
Services Group	Gulf Coast Section		
Raymond D Hosford JR	Chevron	Petroleum Engineers Inc.	Permian Basin
Adria C Hosford	Production Engineer	Chevron Corp.	Permian Basin
Dana L Glessner	Petroleum Engineer	ConocoPhillips Co	San Joaquin Valley
Graeme A Lawrie	QHSE Manager Russia	Schlumberger	Tyumen
Johnny O Golden	Senior Engineer	ConocoPhillips Alaska	Western Slope



Alaska SPE Officers, Directors and Volunteers

Position Name (Description)	Phone #	Member Name	E-mail Address
SPE Sections Manager	972 952 9451	Brian Wiggins	bwiggins@spe.org
SPE Western Region Director	925 842 3541	Med Kamal	MKamal@chevron.com
Elected Officers & Directors			
Section Chairperson	265 6402	Tim Crumrine	Tim.W.Crumrine@conocophillips.com
Program Chairperson	564 5392	Robert Younger	younger2@bp.com
Membership Chairperson	564 4795	Chidiebere Igbokwe	Chidiebere.igbokwe@bp.com
Secretary	564 5910	Matthew Mower	matthew.mower@bp.com
Treasurer	564 4096	Olivia Bommarito	olivia.bommarito@bp.com
Section Director	793 1226	Jane Williamson	jane.williamson@alaska.gov
Section Director	339 5068	Christopher Jenkins	christopher.jenkins@BP.com
Section Director	263 4280	Forest Bommarito	Forest.Bommarito@conocophillips.com
Section Director	564 5663	Jennifer Julian	jennifer.julian@bp.com
Section Director	564 3718	Brian Magruder	j.brian.magruder@exxonmobil.com
Section Director		Chineme Eke	neme4u@yahoo.com
Volunteer Positions			
Awards & Recognition	564 5392	Robert Younger	younger2@bp.com
BBQ Committee Co-Chair	564 5543	Amanda Rebol	reboa2@bp.com
BBQ Committee Co-Chair	564 5663	Jennifer Julian	jennifer.julian@bp.com
Continuing Education Chair	265 6268	Jack Walker	Jack.A.Walker@conocophillips.com
Engineering Explorers	564 5769	Gordon Pospisil	pospisg@bp.com
Engineering Explorers	564 5092	Alex Yancey	alex.yancey@bp.com
Engineering Explorers	564 5635	Mikie Weeks	micaela.weeks@bp.com
Engineering Explorers	564 5520	Jenny Vorpahl	jenny.vorpahl@bp.com
Engineers' Week	564 5684	Chris Stone	christopher.stone@bp.com
Engineer of the Year	564 5663	Jennifer Julian	jennifer.julian@bp.com
Golf Committee Chair	564 5520	Jenny Vorpahl	jenny.vorpahl@bp.com
Investment Chair	564 4647	Taylor West	taylor.west@bp.com
Newsletter	793 1226	Jane Williamson	akspe@spe.mail or jane.williamson@alaska.gov
Publications Mentor		Vacant	
Publicity	263 4280	Forest Bommarito	Forest.Bommarito@conocophillips.com
Scholarship Chairperson		Chineme Eke	neme4u@yahoo.com
Technology Transfer Officer	265 1015	Randy Roadifer	r.d.roadifer@conocophillips.com
UAF Liaison	474 5127	Shirish Patil	ffslp@uaf.edu
UAF SPE Faculty Adviser	474 6427	Abhijit Dandekar	ffayd@uaf.edu
UAF Student Chapter Liaison	564 5808	Emberley Riddle	emberley.riddle@bp.com
Webmaster	265 1434	Scott Stanley	Scott.M.Stanley@conocophillips.com
Young Professional Program Chair	265 6492	Erica Kappel	erica.j.kappel@conocophillips.com

Would you like to serve in SPE? Please volunteer!

Contact:

**Tim Crumrine
(907) 265-6402**



essential energy education

Energy4me is SPE's energy education program that helps students, teachers, and the public become more educated energy consumers.

Energy4me is for students

The Energy4me website, www.energy4me.org, is a single source for factual information on all types of energy resources, for every grade level. Students will find

- fun activities
- coloring pages
- information for school reports
- science fair project ideas
- scholarship and university program information
- career opportunities

Energy4me is for educators

Energy4me offers teachers of all grade levels tools for teaching about oil and gas and other energy sources. Resources include

- educational curriculum
- fun classroom activities/experiments
- classroom presentations by SPE members
- teacher workshops at selected SPE conferences
- an energy education kit for the classroom
- "Oil and Natural Gas" book for students

Energy4me is for industry professionals

SPE encourages members to make presentations to students and civic organizations to inform them about the energy industry. Classroom presentations are also a great avenue for promoting petroleum engineering careers.

Energy4me.org provides speakers with

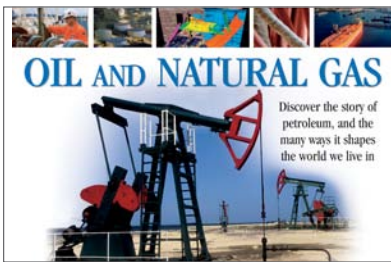
- prepared presentations
- demonstration activities
- incentive programs based on the number of qualified presentations.
- many more useful resources

Energy4me is for everyone

Whether it is the news headline or frequently asked questions that draw the public, everyone is sure to find useful materials on energy4me.org. Energy4me.org provides

- accurate energy information from a trusted resource—SPE.
- answers to important questions like "how much oil is left" information about alternative energy sources and environmental protection

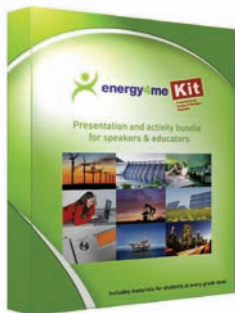
SPE encourages its members to educate students and civic organizations by giving presentations. Energy is the challenging issue of our time, and SPE believes personal contact is the most effective way to provide the facts.



Here are ways you can contribute:

SPE sections

- Get involved in your section's educational outreach or speaker programs
- Start an education program in your section if one has not been established
- Coordinate the distribution of SPE's first "Oil and Natural Gas" educational book for students to your local school libraries. Contact EnergyEd@energy4me.org or visit Energy4me.org for more information.



Presentations

- Contact a local school or administrative district to offer yourself as a speaker
- Talk with your child's teacher about classroom speaking opportunities
- Look for opportunities to speak to local clubs and civic organizations
- Order an Energy4me Kit for speaker resources, sample presentations, videos, and fun classroom experiments for your section or personal use. Visit Energy4me.org to place your order and for more information.



Community involvement

- Volunteer to judge science fair projects or speak at a career fair for secondary students
- Help Boy and Girl Scouts earn Energy or Engineering Merit Badges
- Take part in Engineers Week activities that are held annually in February (SPE is a sponsoring society of this global event that focuses on engineering careers)
- Tell friends, family, and the community about SPE's energy education website, Energy4me.org.



Find additional resources on energy4me.org/speaker or contact EnergyEd@Energy4me.org for additional information.

Energy4me
Society of Petroleum Engineers
222 Palisades Creek Drive
Richardson, Texas 75080-2040 U.S.A.
Tel: +1.972.952.9304 • www.energy4me.org • EnergyEd@Energy4me.org

Introducing a new tool for your SPE section



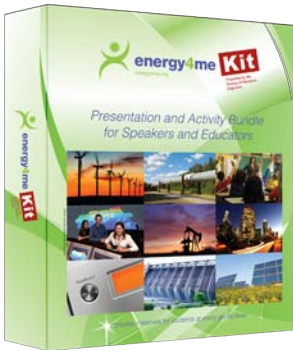
Classroom
presentations
as easy as

1-2-3

Energize a classroom with ready-to-go presentations and activities

SPE's Energy4me program is pleased to provide each SPE section an Energy4me Kit to use in your educational outreach program. The Energy4me Kit, which replaces the Magic Suitcase, offers the tools you need for fun, exciting presentations to primary, intermediate and secondary classrooms!

Getting started is easy!



1

Find a classroom speaking opportunity

- Talk with your child's teacher about giving a presentation
- Contact a local school or administrative district to offer yourself as a speaker.

2

Use the materials in the Energy4me Kit and on www.energy4me.org/speaker to prepare your presentation.

3

Contact EnergyEd@energy4me.org with the school name, address and contact person. SPE will donate a copy of the *Oil and Natural Gas* educational book to the school when a presentation is given. (One book per school, please).

Kit Contents

- Speakers Guide
- Oil Well Poster
- Experiment folder
- Fact or Fiction Quiz Card Deck
- Energy4me Presentation/Materials CD
- Energy Sources of the World Booklet
- Petroleum Engineering Career Brochure
- Smart Energy Choice Bookmarks

Additional Energy4me Kits are available for purchase at www.energy4me.org. (30 USD for SPE members, 35 USD for nonmembers)

We welcome your feedback on the Energy4me Kit, and your energy education ideas to share with other SPE sections. Email EnergyEd@energy4me.org.

www.energy4me.org

Energy4me

Society of Petroleum Engineers

222 Palisades Creek Drive

Richardson, Texas 75080-2040 U.S.A.

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