A World of Opportunity

Society of Petroleum Engineers

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A Brief History of SPE
SPE Mission
SPE Today
Member Benefits
Preparing the Next Generation

SPE Macaé Section and activities
  • Workshops & Conferences
  • SPE Distinguished Lecturer program
  • Support the local Petroleum Engineering University (LENEP/UENF)

How to become a new member?

Conclusions
A Brief History of SPE
SPE Has Grown with the Industry

- 1871: American Institute of Mining Engineers (AIME) forms in Pennsylvania USA
- 1913: AIME creates oil and gas committee
- 1957: Officially founded as SPE
- 1961: DL series begins with 3 lecturers delivering 28 talks to members in 19 petroleum sections of AIME.
- 1985: SPE incorporates separately
- 2007: SPE celebrates 50-year anniversary
- 2009: SPE surpasses 92,000 members worldwide
SPE Mission

To collect, disseminate, and exchange technical knowledge concerning the exploration, development and production of oil and gas resources, and related technologies for the public benefit;

and to provide opportunities for professionals to enhance their technical and professional competence.
SPE Today: Global, Diverse Membership

92,000 members in 117 countries

• 173 member sections
• 211 student chapters
Diverse Job Focus

- Engineer
  - Executive/Manager
  - Consultant
  - Geologist or Geophysicist
  - Other
  - Educator
  - Superintendent or Foreman
Diverse Technical Disciplines

- Reservoir Description and Dynamics
- Drilling and Completions
- Production and Operations
- Management and Information
- Projects, Facilities, and Construction
- Health, Safety, Security, Environment, and Social Responsibility
Diverse Company Categories

- Independent Oil and Gas Co./Major Integrated Oil/National Oil Co.
- Service/Manufacturing
- Consultant
- Other
- Academia
- Government Agency
SPE Provides Access to Latest Technical Knowledge

- SPE DL series: Learn about both proven and emerging technologies from global experts.
- Network with colleagues at the local, regional and international level.
- Get professional development opportunities at all career levels.
Member Benefits

**Tangible**
- Journal of Petroleum Technology (monthly)
- Membership in Technical Interest Groups, technical sections, geographic sections
- Discounts on technical papers, books, periodicals
- Discounts on conferences, forums, workshops
- Visiting lectures by distinguished experts
- Online resources – www.spe.org

**Intangible**
- Leadership opportunities
- Networking
- Add professional standing to your resume
- Give back to the industry by sharing knowledge
SPE Online Resources

www.spe.org

- Search and download SPE technical papers
- Join Technical Interest Groups
- Access professional networks
- Connect through eMentoring program
- Read peer-reviewed technical journals online
SPE Technical Papers

- 50,000+ SPE technical papers in www.OnePetro.org multisociety library (80,000+ total papers)
- 1,700 new papers added annually
  - Historical papers back to 1884
- 1 million downloads per year
  - 125 papers downloaded per hour
The following organizations currently have their technical documents available through OnePetro:

• American Petroleum Institute (API)
• American Rock Mechanics Association (ARMA)
• American Society of Safety Engineers (ASSE)
• Offshore Technology Conference (OTC)
• NACE International (corrosion engineers)
• Society of Petroleum Engineers (SPE)
• Society of Petrophysicists and Well Log Analysts (SPWLA)
• The Society of Underwater Technology (SUT)
• World Petroleum Council (WPC)
SPE Events

- 100+ conferences, forums and workshops each year globally

- To reduce or eliminate travel expense: SPE is placing technical conferences and workshops close to major petroleum operations
Preparing the Next Generation
No. of Young Members Increases

2009 Average Age of Members: 46
Who Are Young Professionals?

- Under age 35
- Less than 10 years of industry experience
- Industry’s next generation of leaders
Benefits of SPE’s Young Professionals Programs

- Provides opportunities to enhance technical and professional competence, including “soft skills”

- Helps companies get highest returns on their human resources
SPE Young Professionals Programs

- The Way Ahead Magazine – in print and online
- Young Professionals Awards
- Young Professionals Workshops
- Global Young Professionals Coordinating Committee
- Ambassador Lecturer Program to universities
- Online Young Professionals Network
- Local Young Professionals activities in SPE Sections
- eMentoring
SPE Student Member Growth

- 2009: 23,500 student members at university chapters in 52 countries

- SPE sponsors student membership
SPE Accelerates Transition for University Students

Development Opportunities

- Regional Student Paper Contests – develop paper writing and presentation skills
- Ambassador Lecturer Program - young professionals visit student chapters to talk about career experiences
- Special student activities – tutoring, field trips, events
- Networking - interact with practicing professionals
- Technology resources – local section meetings, SPE online resources
- eMentoring and online technical groups – connect to professionals globally to get answers to technical and career questions
Keys to SPE’s Success

- Respected resource for technical knowledge
- Diverse, global membership
- Member-driven
- Lifelong opportunities for career development
- Neutral, non-competitive and non-commercial exchange
4 SPE Sections in Brazil
SPE Macaé Section

Chair: Fernando Antonio Machado, PETROBRAS
Program Chair: Carlos Alberto Pedroso, PETROBRAS
Treasurer: Guilherme Castro, PETROBRAS
Membership Chairperson: Heitor Garcia, PETROBRAS
Secretary: Marcelo Ribeiro, SCHLUMBERGER
Liaison Young Professional: Dayana Nunes, PETROBRAS
Technology Transfer Officer: Mauricio Diniz, PETROBRAS
Continuing Education Chairperson: Adolfo Puime Pires, LENEPI/UENF
Section/Student Chapter Liaison: André Bueno, LENEPI/UENF
SPE Macaé Section

ACTIVITIES:

• Workshops & Conferences
• SPE DL series
• Support the local Petroleum Engineering University (LENEP/UENF)
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## Past Events

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<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Location</th>
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<tbody>
<tr>
<td>“Brasil Offshore: the Next Frontier”</td>
<td>16 - 18 de June 2009</td>
<td>Macae Convention Center</td>
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<tr>
<td>“Offshore Mature Fields Management Workshop”</td>
<td>19 a 21 June 2007</td>
<td>Macae Convention Center</td>
</tr>
<tr>
<td>SPE ATW “Reliable Sand Control and Completions for Deepwater Heavy Oil”</td>
<td>12 - 15 July 2005</td>
<td>Buzios, RJ.</td>
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Incoming Events

ATW CCS Búzios – August***
“Carbon Capture and Storage”

Date and Local to be confirmed

Workshop at Brasil Offshore 2011
SPE Macaé Section

ACTIVITIES:

• Workshops & Conferences

• SPE DL series

• Support the local Petroleum Engineering University (LENFP/UENF)
SPE DISTINGUISHED LECTURER PROGRAM

- One of the most popular SPE programs
- 1961: 3 lecturers
- Last year: 173 SPE Sections were visited by 3 speakers.
- DL Program has answered countless questions and advanced technological issues on all fronts
- 400 presentations are made each year
- **2009-10**: 4th DL (HSE, MI, PFC)
PURPOSE:

- Assist SPE sections in obtaining outstanding speakers for section meetings
- Recognize the professional contributions of individuals

FUNDING:

- Principally funded by the SPE Foundation, SPE international, and companies employing the lecturers
VALUE TO LOCAL SECTIONS

CONTRIBUTION TO LOCAL SECTION TECHNICAL PROGRAMS:

• Provides all speakers for some sections (meet only 3 times/year)
• Typically provides their best programs
• Provides most (or all) of their “non-local” speakers
THE PROGRAM PLAYS CRITICAL ROLES IN:

- Introducing local sections to new technology
- Keeping local sections viable

SPE DL are:

- Excellent speakers
- Very knowledgeable on topics of high interest to SPE members
<table>
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<tr>
<th>Year</th>
<th>Name 1</th>
<th>Name 2</th>
<th>Name 3</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>2006-2007</td>
<td>Prof. Pavel Bedrikovtsky (LENEP/UENF)</td>
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<td></td>
<td>Carlos Alberto Pedroso</td>
<td>2007-2008</td>
<td>Agostinho Calderon</td>
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<td></td>
<td>Luis Carlos B. Bianco.</td>
<td>2007-2008</td>
<td>Andre Leibsohn Martins</td>
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<td></td>
<td>Átila Aragão</td>
<td>2008-2009</td>
<td>Otto Luiz Alcântara Santos</td>
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<td>Emmanuel Nogueira</td>
<td>2009-2010</td>
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2007-08 SPE DL Committee Chairman, Fernando A. Machado
SPE DL visiting SPE Macaé Section in 2010

Feb/05 – Alain Zaitoun
Mar/05 – Roland Horne
Apr/20 – Joseph Ayoub
“Improved Oil and Gas Recovery by Polymer Technology: EOR, Water Shutoff, and Sand Control”
Roland Horne
Stanford University

"Listening to the Reservoir –
Interpretating Data from Permanent Downhole Gauges"

March/05
Special Event – “Lunch and Learn”**

** still being formated - TBC
Joseph Ayoub
Schlumberger

“Realizing Full Potential of Hydraulic Fracturing – Damage Mechanisms and Mitigation”

April/20
SPE DL to be scheduled in 2010

Agostinho Calderon, “Openhole Gravel Packing: New Trends and What We Are Doing to Overcome the Challenges”


Otto Luiz Alcântara Santos, “Well Control Operations and Researches”.

Luis Carlos Marques, “The Production Management of Unstable Light Crude Oils Showing Asphaltenes Deposition Problems”
SPE Macaé Section

ACTIVITIES:

• Workshops & Conferences
• SPE DL series
• Support the local Petroleum Engineering University (LENEP/UENF)
SPE Macaé Section and LENEPE / UENF

• Support to the local SPE Student Chapter activities:

  ENGEP

  • Financial (lecturers travel expenses)
  • Technical Program
  • Lecturers (industry experts)

• Technical seminars (every Friday)
• Books (Petroleum Engineering)
• Online library (www.Onepetro.org)

Sponsorship opportunities
How to become a new member?

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 issues are all part of the resources needed to expand and deliver the supply of oil and natural gas the world needs. All those who work in these areas will find a home in SPE.
Requirements for Membership

Professional Member
Employment in work related to the petroleum industry
AND one of the following

• A university degree equivalent to a 4-year Bachelors degree in engineering or basic or applied sciences

• A 2-year science or engineering degree or a 4-year degree in a field other than science or engineering

• 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
Visit www.spe.org/membership

If you have any doubt, please contact me at famach2008@gmail.com

Society of Petroleum Engineers (SPE) - Microsoft Internet Explorer

Quick Links
- OnePetro (SPE papers+)
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- Meetings Calendar
- Renew Membership
- Update Profile
- Member Directory
- My SPE Network
- Media Center
- SPE E&P Glossary
- Energy4ine.org
- President's Column

SPE Offers SPE Certification Exam

The SPE Petroleum Engineering Certification Programme offers an international, across borders credential that will be recognized by a global industry. SPE invites you to apply. The SPE Certification exam may be waived if the applicant has previously passed a written examination qualifying him/her to practice in petroleum engineering as a registered or licensed professional engineer. To find out if you qualify, simply fill out the exam waiver form.

Drilling Systems Automation Section

There is still time to RSVP and join the Drilling Systems Automation (DSA) Technical Section in a half-day meeting that will be held in conjunction with the IADC/SPE Drilling Conference in New Orleans, Louisiana Monday, 1 February. There is no change to attend the meeting, but there is limited seating. Find out more>>

Gus Archie Scholarship Program

The Gus Archie Memorial Scholarship is supported by the Archie Fund of the SPE Foundation. The Archie Fund awards each scholarship at $10,000 per year. The program provides support of an individual student through up to four years of university study, provided that he/she makes satisfactory academic progress. Find out how to apply>>

Upcoming SPE Events Worldwide

Middle East, India and North Africa
- Fractured Reservoir Development: Challenges and Opportunities
  1 - 3 Feb 2018 | Kuwait City, Kuwait

- SPE 2018 Middle East Technical Conference and Exhibition
  27 - 29 Nov 2018 | Abu Dhabi, UAE
CONCLUSIONS

• 92,000+ members (173 section in 117 countries), and still growing...

• Efficient Knowledge Management
  • 100+ Technical Events (Conferences, ATW, Forum Series)
  • Online resources (TIG, library, peer review articles, JPT)
  • Onepetro.org
  • SPE DL
CONCLUSIONS

Volunteer work

Opportunities to:

• give back to industry, sharing knowledge
• mentor YP and PE students
• be a lecturer
• Develop “soft skills” (leadership, coaching, teaching...)
THANKS
QUESTIONS?
WWW.SPE.ORG