Decommissioning, taken in the context of simply being the reverse of construction, is far from the truth and often misleading. The reality is, it happens to be one of the biggest challenges and liabilities in the oil and gas industry. With fields being marginal or below economic threshold, coupled with stricter regulations, operators tend to delay or give little attention to their commitment to decommissioning. In the current low oil price environment and uncertainties, well and facilities decommissioning activities are now requiring innovative approaches to keep the cost down and allow operators to fulfil their commitments while maintaining investment programmes in ongoing assets production.

The technical challenges for facilities decommissioning revolve around the structures’ final disposal, including alternative usages. For wells abandonment, the goal is to provide the equivalent of a rock-to-rock seal across the wellbore system as an eternal barrier. Improper abandonment execution may lead to serious HSE consequences down the line. Thus the primary objectives of decommissioning is to ensure compliance with relevant international and local legislation and regulation, while finding the best practicable environmental option which minimises the future risks for other users of the sea. The interpretation and application of decommissioning law and regulations and well plug and abandonment (P&A) standards will determine the final work scope.

Session Highlights
This workshop will focus on:
• Keeping up with the latest trend on current best practices, technology and emerging innovation in decommissioning shallow water wells and facilities
• Dissecting the significant constraints related to platform removal such as heavy lift vessels and cutting technologies from various perspectives
• Gaining strategic insights through recent case studies of regional and international projects that implemented innovative processes and technologies
• Promoting greater synergy between operators and service providers to drive innovative solutions to efficiently retire their shallow water assets

SPE WORKSHOP:
Decommissioning - Innovative Approaches to Shallow Water Platforms and Wells
23 - 26 OCTOBER 2017
HILTON KUALA LUMPUR, MALAYSIA

Who Should Attend
Professionals involved in designing, managing and operationalising decommissioning of wells and facility:
• Abandonment Project Manager
• Decommissioning Engineer
• Drilling Engineer
• HSE
• Marine Biologist
• Production Engineer
• Reservoir Engineer
• Rig Designer
• Solutions and Technology Provider
• Structural Designer
• Structural Integrity
• Well Integrity and Decommissioning
• Wells Workover

Technical Programme Committee
CHAPRERSONS
M Zaki Ibrahim
Head of Front End Engineering Wells
PETRONAS Carigali Sdn Bhd
Ir. Mohamad Ikhranizam Mohamad Ros
GPD, Project Delivery and Technology
PETRONAS
Thomas Leeson
Principal Consultant & Well Abandonment Manager
Reverse Engineering Services Ltd

COMMITTEE MEMBERS
M Redzuan A Rahman
GPO, Project Delivery and Technology
PETRONAS
Mohd Fahrul Nizam Engan
Head of Project Implementation - Asset Decommissioning
PETRONAS
Nurul Ezalina Hamzah
Head Wells Workover and CTD
PETRONAS
Nik Aman Manaf
Head Wells Integrity and Decommissioning
PETRONAS Carigali Sdn Bhd
Darwin Tangkalalo
General Manager
PCPP OC Sdn Bhd (Pertamina)

POST-WORKSHOP TRAINING COURSES
Offshore Facilities Decommissioning
25 – 26 October 2017
Hilton Kuala Lumpur, Malaysia

Well Plugging and Abandonment (P&A)
25 – 26 October 2017
Hilton Kuala Lumpur, Malaysia

GROUP REGISTRATIONS AVAILABLE!
Contact us at speks@spe.org to arrange your group.

www.spe.org/go/18WM08
Workshop Objectives

The goal of this workshop is to provide an avenue for presentations and engaged discussions in trying to achieve verified well isolations i.e. decommissioning of shallow water wells at sustainable levels for the future and to propose efficient removal of facilities by exploring innovative and potential cost-effective methods in the current economic outlook. The focus will be on both methods currently available, and what are emerging technologies and practices to drive the cost down.

The industry is seeking out-of-the-box approaches to mitigate all these challenges, specifically, in shallow water environment where abandonment activities ought to have wider options technically, with less complication and cheaper compared to deep water facilities or those with subsea trees. Hence it is imperative that innovative and creative solutions are explored to turn decommissioning projects into a more cost-effective option. Decommissioning is undeniably a complicated and much debated topic, thus requiring extensive knowledge and experience to understand the practices and challenges involved to ensure efficient operations and economics.

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Preliminary Workshop Schedule

MONDAY, 23 OCTOBER 2017

0800 - 0850 Arrival of Delegates and Registration
0850 - 0900 Safety Announcement by Hotel
0900 - 1000 Session 1: Welcome, Introduction and Keynote Address
Co-Chairpersons: M. Zaki Ibrahim, PETRONAS Carigali Sdn Bhd; Ir. Mohamad Ikhramizam Mohamad Ros, PETRONAS; Thomas Leeson, Reverse Engineering Services Ltd

1000 - 1030 Group Photo / Coffee and Tea Break

1030 - 1230 Session 2: Panel Session – Asia Pacific: Unique Challenges and Approaches
Session Managers: Brian Twomey, Reverse Engineering Services Ltd; Mohd Fahrul Nizam Engan, PETRONAS
- Importance of the interpretation and application of Well P&A guidelines and effect on scope of work
- Lack of execution experience in subsea wells
- As-I’s status of the wells
- Execution challenges and lesson learnt, replication of best practices from other regions
- Importance of legal instrument and guidelines to the implementation of shallow water and well abandonment activities
- Lessons learned from other regions
- Possible cost reduction strategies applicable for Asia Pacific
- Role of new technology and alternative approach
- Role of new technology in Well P&A
- Status of shallow water and well abandonment activities
- Well P&A contracting strategies
- Law and regulations applicable to shallow water platforms
- Technologies to remove shallow water platforms and pipelines with lower cost and with higher local content
- Challenges of onshore waste disposal of shallow water platforms and pipelines

1230 - 1330 SPE Luncheon

1330 - 1530 Session 3: Lessons Learnt – Pre-Decommissioning Preparation
Session Managers: Ken Beck and Robert Byrd, TETRA Technologies Inc.
Over 2,000 platforms have been decommissioned in the Gulf of Mexico’s shallow water. The benefits of pre-planning have been experienced and unfortunately when proper planning was not carried out we have observed consequences. Case studies will be presented with actual platform locations, conditions, photographs, and resources used, to illustrate the benefits of proper planning and lessons learnt.

1530 - 1545 Coffee and Tea Break

1545 - 1745 Session 4: Rigless Options for Dry Tree
Session Manager: Nurul Ezalina Hamzah, PETRONAS

POSTER SOLICITATION & INFORMATION

All participants are encouraged to prepare a poster for the Workshop. Presentations on both research and field experience are welcomed. Posters, including unconfirmed / partial results, are to be presented at an assigned time and are open for discussion. Posters will be on display for the entire Workshop period.

When preparing your poster:
- Avoid commercialism. No mention of trademarks / product name
- Poster size should be approximately 0.8m x 1.2m (W x H) or size A0 in portrait layout
- Identify topic by title, affiliation, address, and phone number
- Include a brief abstract that summarises the technology to be addressed
- Make the display as self-explanatory as possible
- Place the information in sequence: beginning with the main idea or problem, method used, results, etc. (Draw a plan keeping the size and number of illustrations in mind)
- Keep illustrations simple by using charts, graphs, drawings, and pictures to create interest and visually explain a point
- Use contrasting colours
- Use large print for narrative materials. (We suggest a minimum of 24 points or 3" high letters for the title)

*Note that the Workshop Programme Committee will review all poster abstracts / materials prior to display, and reserves the right to refuse permission to display any poster considered to be commercial in nature. If you are interested to participate, please email your proposed topic with a short abstract (between 200-300 words) to Jenny Chong, SPE Senior Event Manager at jchong@spe.org by 15 September 2017.

ATTENTION NON-MEMBERS:
Join our worldwide membership!

Non-member full workshop attendees can join SPE at no additional cost. Look for your exclusive offer by email shortly after the event.
Many alternatives for wells P&A and platform decommissioning are being explored as one of the efforts to optimise total operation cost. Methods such as offline rigless intervention using coiled tubing, E-line and rigless marine spread (RMS) are chosen over big rigs due to more simplified and cost-effective operations. This session will provide an avenue for participants to discuss methods for rigless wells P&A and platform decommissioning that are currently available in the market. Participants will also share best practices and experiences from past operations utilising rigless methodologies. 

**Session 5: Poster/Interactive/Breakout Session**

*Session Managers: Darwin Tangkalalo, PCPP OC Sdn Bhd (Pertamina)*

**Tuesday, 24 October 2017**

- **0830 - 1030**
  - **Session 6: Unconventional Solutions**
  
  *Session Managers: Nik Arman Manaf, PETRONAS Carigali Sdn Bhd; M Redzuwan A Rahman, PETRONAS*

  Alternative facilities removal approaches considering technologies that can reduce the offshore duration should be explored especially in the current oil price economy as the conventional decommissioning process involving Heavy Lift Barges incur a significant cost. The methods on optimising execution strategies and minimising the decommissioning project cost will be covered in the session as well as the applications of unconventional technologies and approaches that has proven to improve operational efficiency of well P&A and facilities removal. In reducing the cost of wells abandonment, operators and regulators are improving the P&A performance including completion removal, annular cementation verification and permanent P&A barrier placement while service providers are developing the tools to increase the efficiency.

- **1030 - 1045**
  - **Coffee and Tea Break**

- **1045 - 1245**
  - **Session 7: Case Studies – Solutions to Alternative Decommissioning Options**
  
  *Session Managers: Md Yusoff Mohamad Nor, Sapura Energy Berhad; Noor Amila Wan Zawawi, Universiti Teknologi PETRONAS*

  Alternative decommissioning options such as reffer and reuse have indeed benefited operators and other sea users. Proper implementation of alternative decommissioning options through collaborative efforts by both operators and service providers have proven the viability and sustainability of such options for the future. In the past, issues surrounding alternative decommissioning options were merely academic exercises which were later discarded during the execution stage. Engineering solutions for issues such as reefing have enhanced the confidence level of stakeholders and other key decision makers to opt for these options. Coupled with mastery in heavy lift engineering and integrated engineering solutions, alternative decommissioning options have become an ideal way forward in the emerging offshore platform decommissioning sector.

**Sponsorship Support Information**

Sponsorship support of the event helps offset the cost of producing workshops and allows SPE to keep the attendance price within reach of operation-level individuals, those who benefit most from these technical workshops.

Supporters benefit both directly and indirectly by having their names associated with a specific workshop. While SPE prohibits any type of commercialism within the workshop room itself, the Society recognises that supporting companies offer valuable information to attendees outside the technical sessions.

**Sponsorship Categories**

Sponsorship categories are offered on a first-come basis. Please contact SPE to enquire and verify the availability of categories. Existing supporters have the opportunity to renew the same level of support for annual workshops.

**Sponsorship Benefits**

In addition to onsite recognition, SPE will recognise sponsors on the SPE website and in all printed materials for the workshop. Based on the category selected, supporting companies also receive logo visibility on promotional workshop items.

**For More Information**

For a detailed list of available sponsorship opportunities, including benefits and pricing, contact Jenny Chong at jchong@spe.org.

**General Information**

**Documentation**

- Proceedings will not be published; therefore, formal papers and handouts are not expected from speakers.
- Work-in-progress, new ideas, and interesting projects are sought.
- Note-taking by attendees is encouraged. However, to ensure free and open discussions, no formal records will be kept.

**Workshop Deliverables**

- The committee will prepare a full report containing highlights of the Workshop and the report will be circulated to all attendees.
- Powerpoint presentations will be posted online and provided to attendees after the Workshop. Provision of the materials by Discussion Leaders will signify their permission for SPE to do so.

**Commercialism**

In keeping with the Workshop objectives and the SPE mission, excessive commercialism in posters or presentations is not permitted. Company logos must be limited to the title slide and used only to indicate the affiliation of the presenter.

**Attendance Certificate**

All attendees will receive a Workshop attendance certificate. This certificate will be provided in exchange for a complete Attendee Survey Form.

**Continuing Education Units**

This Workshop qualifies for SPE Continuing Education Units (CEU) at the rate of 0.1 CEU per hour of the Workshop.

**Travel/Visa**

Attendees are advised to book their airline tickets early. All travellers must be in possession of passports valid for at least six (6) months with proof of onward passage. Contact your local travel agent for information on visa requirements.

**Dress Code**

Business casual clothing is recommended. The Workshop atmosphere is informal.

**Registration Fee**

- Registration fee ONLY includes all workshop sessions, coffee breaks and luncheons for the registrant.
- Accommodation is NOT included. SPE will provide details of recommended hotels upon receipt of your registration.

**Registration Policy**

- Registration fee MUST be paid in advance for attending the Workshop.
- Full fixed fee is charged regardless of the length of time the registrant attends the Workshop, and cannot be prorated or reduced for anyone.

The Society of Petroleum Engineers (SPE) is a not-for-profit organisation. Income from this event will be invested back into SPE to support many other Society programmes. When you attend an SPE event, you help provide even more opportunities for industry professionals to enhance their technical and professional competence. Scholarships, certification, the Distinguished Lecturers programmes, and SPE’s Energy education programmes Energy4me are just a few examples of programmes that are supported by SPE.
The 2-day course will cover a one-day training followed by a one-day hands-on group discussions and facilitated dialogues. The theme of this course is “an outlook for decommissioning of offshore platforms on uncertainties, opportunities and techniques”.

The course will deliver the following core areas of competencies to participants:

- Decommissioning roadmap: Past-present-future
- Decommissioning of offshore platforms: Dealing with uncertainties
- Various facets of decommissioning alternatives: Opportunities to be tapped
- Challenges ahead and gaps to be strategised
- Best Practicable Environmental Options (BPEO) as a decommissioning option assessment tool

Objectives

- Provide an outlook of oil and gas (O&G) industry decommissioning
- Gives an overview on opportunities, risk mitigation and techniques in the field of decommissioning planning and management
- Gain insights into different legislations and regulations affecting decommissioning and its importance
- Have an understanding on drivers affecting offshore decommissioning and its importance
- Understand the application of BPEO through hands-on experience in case studies
- Experience an interactive environment with the instructors where you may poll and share your thoughts. This will create and encourage knowledge sharing, experience/knowledge acquisition and assimilation in solving decommissioning challenges of today and tomorrow

Daily Technical Agenda

DAY 1: 25 OCTOBER 2017

0900 - 0945  Outlook to Oil and Gas
A broad outlook of latest trends in oil and gas
- Fundamentals – Introduction to petroleum exploration, oil and gas history, challenges, players and value chain
- International oil and gas areas
- Understanding key elements of offshore engineering

0945 - 1045  Overview of Offshore Decommissioning
An overview of decommissioning from wide perspectives i.e. project management, legal, regulatory and drawing the experiences of other regions
- Project management, engineering and planning
- Law, regulation and guidelines applied to decommissioning
- Global decommissioning experiences and best practices
- Regulatory issues and competent authorities

1045 - 1100  Morning Coffee / Tea Break

1100 - 1230  Decommissioning Alternatives
Introduction to decommissioning alternatives, stakeholders, liabilities and waste issues
- Decommissioning alternatives, requirements and drivers
- Stages in the abandonment process
- Public perception, governance and reputation management
- Cutting techniques, risks and cost
- Liability issues and management
- Waste management and HSE issues

1230 - 1400  Group Lunch

1400 - 1530  Reusable Facilities and Structures
Introduction to the concept of reuse for facilities and structures
- Reassessment process and feasibility study (No guideline, reuse check API, inspection for reuse/decommissioning)
- Reuse of static equipment and rotating, electrical, and Instrument equipment, reuse/decommissioning
- Structural integrity, codes and standards (Thailand standards draft for Mechanical and Electrical Engineers)
- Structural reuse, considerations and inspection, integrity assessment, codes and standards
- Risk considerations

1530 - 1630  Afternoon Coffee / Tea Break

1630 - 1700  Q & A / recap of key concepts delivered/ expectation for workshop

DAY 2: 26 OCTOBER 2017

0900 - 1030  Evaluating Decommissioning Alternatives Using Best Practicable Environmental Option (BPEO) Assessment
Introduction to BPEO as a tool for decommissioning alternative selection
- Key principles of BPEO Studies
- BPEO study framework
- Identification and screening of options
- Attribute analysis
- Weighting factors
- Integration into decision-making
- Definition of purpose and scope

1030 - 1045  Morning Coffee / Tea Break

1045 - 1100  Guided Workshop: BPEO Assessment - Case Study of a Local Platform
Participants will be assigned as groups of 5-6 members and work on a case study using BPEO. This will be a guided session, with the assistance of a team of facilitators
1100 - 1230  Guided case study on a local platform
- Gaps identification

1230 - 1400  Group Lunch

1400 - 1530  SWOT analysis
- The way forward

1530 - 1545  Afternoon Coffee / Tea Break

1545 - 1745  Group Presentation
Each group will present their recommendations to the members of the floor
- Facilitating team will minute the discussion, provide and invite comments and feedback where applicable.
- The discussion will be captured and the compilation will be shared with participants 2 weeks after the workshop.
This 2-day course is an introduction to the new and growing discipline of well abandonment. This course will introduce the complex cross-discipline nature of well plugging and abandonment (P&A). The course is a mixture of presentations, discussion, videos, animations and workshop exercises.

What will be discussed:
- Objectives of well abandonment
- Overview of historical and global activities and performances
- Impact of law and regulation, and other key drivers
- Abandonment standards and their applications
- Decision-making processes
- Abandonment design process
- The applicability of rigless alternatives
- Cost estimation processes and the identification of risk
- Cost control options

Objectives
Delegates will be introduced to the fundamentals of well abandonment with the objective of understanding the following:
- The range of design standards currently in use and how to apply these to meet the objectives of abandonment at minimum cost
- The concept of an ‘Abandonment Barrier’
- The importance of identifying unknowns and uncertainties to minimise potential cost overruns
- The principles of Good Practise in cost estimation
- The importance of recognising the potential cost impact of technical risks and uncertainties
- The options for, and limitations of, rigless abandonment of platform and subsea wells
- The key principles of good cementing practice
- The key aspects of controlling abandonment costs

In addition the delegates will become familiar with the design and cost estimation processes through undertaking tutorial examples.

Course Description

Delegates will be introduced to the fundamentals of well abandonment with the objective of understanding the following:

- The range of design standards currently in use and how to apply these to meet the objectives of abandonment at minimum cost,
- The concept of an ‘Abandonment Barrier’,
- The importance of identifying unknowns and uncertainties to minimise potential cost overruns,
- The principles of Good Practise in cost estimation,
- The importance of recognising the potential cost impact of technical risks and uncertainties,
- The options for, and limitations of, rigless abandonment of platform and subsea wells,
- The key principles of good cementing practice,
- The key aspects of controlling abandonment costs.

Objectives of well abandonment

What can we do now to minimise future costs?

The drilling legacy
Where can we make the most impact?

I. Cost Control in P&A

0900 - 1030 Introduction to Well Abandonment

I. Course Introduction
   - Purpose, themes, historical and global perspectives
II. Objectives of Abandonment
III. Law and Regulation
   - Layers and regulation effecting decommissioning
   - International law, regulations & guidelines
   - Regional regulations
   - National regulations
   - Production sharing agreements

1030 - 1045 Morning Coffee / Tea Break

1045 - 1200 Good Practices and Processes

I. Well Abandonment Standards and Regulation
   - Barrier concept
   - Common applications
   - Prescriptive versus Goal-setting
II. Decommissioning and Abandonment Processes
   - Decision-making processes
   - Strategic, tactical and operational activities

1200 - 1330 Group Lunch

1330 - 1515 Abandonment Design

I. Design Process
   - Design objectives
   - What do we need to know?
   - What data do we want?
   - Barrier schematics
   - Material choice
   - Cementing best practices
   - Failure modes

1515 - 1530 Afternoon Coffee / Tea Break

1530 - 1700 Design Tutorial

II. Technical Challenges

1330 - 1515 Abandonment Design

I. Design Process
   - Design objectives
   - What do we need to know?
   - What data do we want?
   - Barrier schematics
   - Material choice
   - Cementing best practices
   - Failure modes

III. Law and Regulation

1200 - 1330 Group Lunch

1330 - 1515 Cost Estimation

I. Cost Estimate Example
   - Base case vs. Opportunity case
   - Probability
   - Handling risks and contingency
II. Cost Estimate Tutorial

1515 - 1530 Afternoon Coffee / Tea Break

1530 - 1700 Cost Control

I. Cost Control in P&A
   - Why do costs overrun?
   - Where can we make the most impact?
   - The drilling legacy
   - What can we do now to minimise future costs?

Your Instructors

Thomas Leeson has over 25 years’ experience in well operations and more than 12 years’ experience of well abandonment. Responsibilities have included the development and implementation of rigless techniques for both platform and subsea wells, and project management of several offshore projects, both with and without a rig. Thomas has experience of the regulations and working environments in the UK, Norway, Angola, Brazil, Australia, Indonesia and many other countries. Thomas has expertise range from initial well reviews and cost estimation through strategic project planning to project team set-up and project management of operations.

Brian Twomey is responsible for decommissioning and abandonment operations planning, engineering, peer review work, cost analysis and strategic work in well P&A. Brian has worked on oil & gas facilities decommissioning onshore, offshore, subsea issues for over 33 years and more recently well P&A for over 6 years. He has carried out studies/work on over 780 offshore installations worldwide and has written decommissioning and well abandonment guidelines for 12 countries. Brian has presented over 100 papers and over 40 workshops on all aspects of decommissioning and given numerous public and private training courses on all aspects of decommissioning.

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**REGISTRATION FORM**

**SPE WORKSHOP:**
Decommissioning - Innovative Approaches to Shallow Water Platforms and Wells
23 - 26 October 2017 | Hilton Kuala Lumpur, Malaysia

**SPE Member**
- Yes
- No

**Membership No.**

**First/Forename**

**Middle**

**Last/Family Name**

**Position**

**Company**

**Address**

**Town/City**

**Zip/Postal Code**

**Country**

**Tel**

**Fax**

**Email**

Would you be willing to give a brief (10-15 minutes) presentation?  
- Yes
- No

If yes, please attach the topic with a short abstract of your proposed presentation.

One of the Programme Committee members will contact you to discuss your presentation.

*IMPORTANT: Registrants for SPE Workshops are accepted on the basis of information submitted by each registrant.*

**Technical Disciplines (Check One)**
- Drilling
- Completions
- Management and Information
- Health, Safety, Security, Environment, and Social Responsibility
- Production and Operations
- Reservoir Description and Dynamics
- Projects, Facilities and Construction

**Primary Responsibility (Check One)**
- Drilling
- Operation
- Economics
- Geology
- Geophysics
- Reservoir
- Surveillance
- Management
- Other

**Listing background and experience. (Use additional paper if required)**

List your expectation for the Workshop, so that the committee can tailor a portion of the Workshop to answering attendees’ concerns.  
(Use additional paper if required)

**Registration Fees**

<table>
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<tr>
<th>SUPER EARLY BIRD REGISTRATION</th>
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<td>SPE MEMBER</td>
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<td>Workshop &amp; Training Course A</td>
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| SPE MEMBER                    | NON-MEMBER               | SPE MEMBER                           |
| Workshop & Training Course A  | USD 2,500.00             | USD 2,600.00                         |
| Workshop & Training Course B  | USD 2,500.00             | USD 2,600.00                         |
| Workshop only                 | USD 1,500.00             | USD 1,600.00                         |
| Training Course A only        | USD 1,300.00             | USD 1,400.00                         |
| Training Course B only        | USD 1,300.00             | USD 1,400.00                         |

**Note:** Payment fees include workshop sessions, workbook, certificate, daily luncheons and coffee breaks. Registration fees do not include accommodation.

**Cancellation Policy**
- A processing fee of USD150.00 will be charged for cancellation received thirty (30) days prior to the first day of the workshop.
- 25% refund will be made for cancellation received between twenty-nine (29) - fifteen (15) days prior to the first day of the workshop.
- No refund on cancellation received fourteen (14) days prior to the first day of the workshop.
- No refund will be issued if a registrant fails to show up on-site.

This form may be used as a company invoice. Mail completed registration form with remittance and any supporting material to:

**Society of Petroleum Engineers**
Suite 12.01, Level 12, Menara IGB, Mid Valley City
Lingkaran Syed Putra, 59200 Kuala Lumpur, Malaysia

**T** 60.3.2182.3000 **F** 60.3.2182.3030 **E** spekl@spe.org

**Note:** Forms will not be processed and space cannot be guaranteed unless accompanied by payment for total amount due.