

Los Angeles Basin Section Society of Petroleum Engineers

Recipient of the SPE President's Section Award for Excellence & a SPE Gold Standard Section.

A Message from the Chair



Sam Sarem Honored

Dear LASPE Members,

I hope you are all doing well. This month LASPE has been real busy and the motivation real high.

I want to mention first the most important event in my opinion that we had at USC which is "Dr. Sam Sarem celebration".

In a joint venture with USC we have organized a reunion of colleagues, family and friends of Sam Sarem who has dedicated 62 years to this industry, and still dedicates his time to SPE, USC and many more organizations. His commitment to his profession makes him a Role Model for all of us.

- He is always appreciative of those who participate and contribute to SPE's activities.
- He always focus on the goal of petroleum technology transfer and professional growth.
- He is always aware of all meetings, events, articles and opportunities to share with SPE members.
- He is member and contributor of SPE Foundation.
- He has brought hundreds of new members to SPE association and to LASPE

Thank you Sam for what you have done and for what you are for us and SPE. More detailed information is in this newsletter provided by Richard Finken, close friend, colleague and member of SPE and LASPE.

This upcoming Tuesday Dec 8 we are going to have the outstanding speaker Andrei Popa PhD from Chevron and WNAR Director he will talk about: "Data-Driven Analytics for Production Impact Assessment" *continued on page 2....*

Contents

Petroleum Technology Forum
Tuesday December 8th,
"Data-Driven Analytics for
Production Impact Assessment
During Unplanned Facility
System Events"
pages 1 & 3

Photos from Nov 10th Forum
page 4

USC & LASPE Honor Dr. Sam
Sarem
pages 5 - 6

Student Chapter Reports
pages 7 - 10

BOD Minutes September 9th
pages 11 - 13

LASPE Upcoming Events
& Newsletter Submission Dates
page 14

Services Offered
page 15

Board Members - Committee
Chairs
page 16

PETROLEUM TECHNOLOGY FORUM, TUESDAY DECEMBER 8TH

The next Petroleum Technology Forum is "Data-Driven Analytics for Production Impact" by Andrei Popa, PhD, Chevron North America Exploration & Production, on December 8th. *Details follow on page 3 ...*

<u>Location:</u>	<u>Time:</u>	<u>Cost:</u>
Long Beach Petroleum Club 3636 Linden Avenue Long Beach, CA 90807	Registration: 11:30 AM Buffet Lunch: 11:30 AM Presentation: 12:00-1:00 PM	\$25.00 members, \$30.00 non-members, Free for 1st 4 students, others \$5 each

Message from the Chair...continued from page 1

during Unplanned Facility System Events” at the Long Beach Petroleum Club.

With Sam Sarem’s attitude and teaching I invite you to apply for SPE Membership and attend our events - you can do that here: <http://www.spe.org/join/>

We are setting up the Golf Tournament with great effort of our team and in cooperation with other Sections. I invite you to read our newsletters for more information and updates at <http://connect.spe.org/losangelesbasin/home>

Inspired by Sam Sarem I would like to remind you to renew your Membership for the upcoming 2016 check the details at <http://www.spe.org/join/> (Note: SPE Membership Dues can be waived for 2016 if the Member is unemployed).

Thank you for your attention,
Sincerely
Christian Vaccese
LASPE Section Chair 2015-2016
c.vaccese@gmail.com

LASPE Website
[connect.spe.org/
LosAngelesBasin/Home](http://connect.spe.org/LosAngelesBasin/Home)

LASPE Facebook
[Young Professional Facebook](#)

SPE Young Professionals

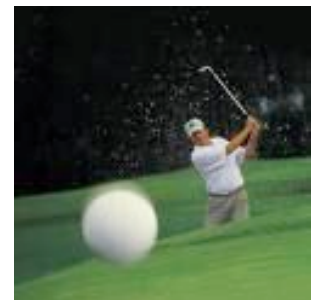
Please join us at our Ugly Sweater Social Event on Thursday, December 10th at **Tequila Jack’s** in Long Beach’s Rainbow Harbor from 05:30 to 07:30 pm. Appetizers will be provided. Sponsors TBD. This will be our final event for 2015. We look forward to seeing you there!



Los Angeles Society of Petroleum Engineers -Young Professionals
Visit our Facebook Page and Like us on Facebook:
Los Angeles Society of Petroleum Engineers Young Professionals

2016 Annual SPE Charity Golf Tournament - May 13

The Annual LA Basin SPE Charity Golf Tournament, Awards Banquet and raffle is set for Friday May 13, 2016. Once again we will be returning to Los Serranos Country Club in Chino Hills for a guaranteed 1:00 PM scramble start. Tell your friends and acquaintances about this great tournament and plan to attend. Make your plans to attend early, form your teams and watch the LASPE website connect.spe.org/LosAngelesBasin/Home or the following newsletter for sign up links. We expect this event to sell out, as usual, so don't get left out.



Interested parties and VOLUNTEERS PLEASE contact
Brian.tran@doverals.com

PETROLEUM TECHNOLOGY FORUM**TUESDAY DECEMBER 8TH***The Forum can now accept credit cards!***Data-Driven Analytics for Production Impact Assessment
During Unplanned Facility System Events**

by Andrei Popa, PhD

Chevron North America Exploration & Production

Abstract

A data driven approach to successfully analyze and evaluate the production fluid impact during facility system “divert” events is presented. The workflow effectively identify opportunities for prompt mitigation and system optimization. The methodology used included data streaming, advance computations (i.e. low pass filtering, moving averages, standard deviation) on high frequency data (i.e. 1-5 seconds), visualization, data mining, and rules extraction. Additionally pattern recognition technologies were employed for detection and computation of event duration, maximum and average pressure during event together with corresponding maximum, and average impact production. Custom tools were developed to allow visualization and computation of the massive amounts of data available (40 streams @ 5 seconds measurement frequency) for the selected events over the past few years. The methodology was successfully applied to one of Chevron’s heavy oil field and due to its practical effectiveness, it is now being expanded for surveillance and monitoring of other facility systems in the San Joaquin Valley. The study demonstrates that applied data-driven analytics let to learning and observations that have a positive effect on the management of facility system during divert events.

Biography

Dr. Andrei Popa has over 18 years of experience applying Artificial Intelligence technologies to complex optimization problems in the energy industry. He has published more than two dozen papers on the subject, and most recently co-author the book “Artificial Intelligence & Data Mining (AI&DM) Applications in the Exploration and Production Industry”, part of SPE’s “Get Up To Speed” Series. Dr. Popa’s service within industry organizations has earned him several awards including the 2015 SPEI “Distinguished Service Award” and currently Dr. Popa is the SPE WNAR Director 2015-2018. He is a Technology Advisor for the Applied Reservoir Management team at Chevron’s San Joaquin Valley Business Unit. Since joining Chevron in 2002, Andrei has had multiple assignments including production and reservoir engineer, special projects lead engineer, subsurface team lead, and i-field supervisor. Since 2009 he has taught “Applied Reservoir Engineering” and “Natural Gas Engineering” at University at Southern California, and served as a guest lecturer for several course within the “Smart Oilfield” program. Dr. Popa earned his Ph. D. and M.S. degree in Petroleum and Natural Gas Engineering from the West Virginia University and he holds a B.S. degree in Petroleum and Natural Gas Engineering from the University of Ploiesti.



**PHOTOS FROM NOVEMBER 10TH
PETROLEUM TECHNOLOGY FORUM**

**Improving Connectivity in Oil and Gas Wells
with Electro-Hydraulic Stimulation**

by Mike Perri, Blue Spark Energy



USC AND LASPE HONOR DR. SAM SAREM

USC and LASPE Honor Dr. Sam Sarem's 63 Years of Contributions to the Petroleum Industry

More than thirty friends, family and colleagues met Monday November 30th for lunch at USC to surprise and honor Sam Sarem for his contributions to the Society of Petroleum Engineers, the Los Angeles Basin Section and to the petroleum industry in general during his long and continuingly productive 63-year career. Those present were joined via phone connection by Andrei Poppa (current SPE Western Regional Director) and Tom Walsh (former SPE Western Regional Director). Nathan Meehan (current SPEI President) sent a voice mail message of congratulations.



Ted Frankiewicz and Christian Vaccese present LASPE's recognition plaque



Dr. Sarem and Dr. Ershaghi with USC's recognition plaque

The program included recognition plaques from USC and LASPE in addition to heart felt testimonials from his colleagues and friends.

Sam has an outstanding volunteer service record with SPE. He has served as a Distinguished Lecturer, a Distinguished Author, the Western Regional Director during 2009-2012, LASPE's Vice Chairperson 1996-97 and Chairperson 1997-98. He served on the Board of Directors 1996-2000 and 2003-2006 and was the 2003 Western Regional Meeting Co-chair. He has also served and continues to serve on several committees and served as LASPE Treasurer. Sam has judged numerous student paper contests and has offered advice and encouragement to the authors. Sam's contributions to the petroleum industry also include over 30 patents and 20 technical papers.

In recognition for all these contributions, SPEI has recognized Sam as an SPE Distinguished Member, SPE Lifetime Member and Sam has received the SPE Western Regional Service Award. He has recruited over 100 members to SPE.

This recognition luncheon was initiated by LASPE's current Chairperson, Christian Vaccese and enthusiastically joined by Dr. Iraj Ershaghi who arranged the venue at USC and the lunch. It was difficult to keep it secret, but we all managed and Sam was truly surprised.



Sam with his wife, Loretta, his son, daughter-in-law and grandsons.

Congratulations to a truly deserving professional!

MORE PHOTOS OF SPECIAL EVENT HONORING DR. SAREM



SPE STUDENT CHAPTER NEWS

USC SPE Chapter Activities

Second General Body Meeting

On October 26th 2015, the USC SPE student chapter held its Second General Body Meeting for the Fall 2015 semester. Our guest speaker Dr. Ted Frankiewicz, (Past Section Chairperson, Los Angeles Society of Petroleum Engineers) delivered a very informative talk emphasizing the significance of Society of Petroleum Engineers in the oil and gas industry, coupled with an overview of how it can benefit student members as well as for professional members of the organization and encouraged student participation.

He discussed the long term career options in E & P and shared his personal experiences on how he avoided a lay-off through 5 downturns in his career span. He advised on developing the skill sets needed for working in the energy industry. His optimistic view on the employment future in the petroleum industry in spite of the current downturn made the students feel confident about their futures. USC SPE is grateful to Dr. Ted Frankiewicz for the wonderful words and his constant support towards our chapter.



Mork Carnival

The USC SPE Chapter in association with the Viterbi Graduate Students Association (VGSA) & Mork Family Department Masters Student Association (MFDMSA), organized a Halloween celebration with pumpkin carving, jumbo games, food, drinks and music on the evening of November 1st, 2015, at the Engineering Quad on campus. It had a great turnout of more than 70 students mainly from USC SPE affiliated to Mork Dept. It marked as one of the biggest social events of this semester. Students were cheerful and stress-free as it was one of the weekends after

USC SPE STUDENT CHAPTER CONTINUES...

the midterms. It played as a perfect break to relax and enjoy with the fellow Trojans in a social setting. Everyone enjoyed the good music, food and games that were set at the venue. The overall consensus was a successful event when we asked some of the attendees, and many even requested for more of such social events. We would like to thank VGSA & MFDMSA for their immense support throughout the event.



MESA Madness 2015

On November 14th, 2015, the University of Southern California organized Fall 2015 semesters MESA Madness Day. USC SPE Chapter provided volunteers for this cause to help facilitate fun hands-on science activities such as building steady hand circuits, water bottle rockets, helicopters, GAK, simple flashlights etc. for local middle school students. Throughout the exciting interaction with kids, USC SPE volunteers found a joyful way to give back to the community to develop their leadership skills, along with imparting information about the Oil & Gas Industry to the students. Similar to this MESA event, USC SPE has had many other community events this semester, and we are looking forward to having more community events the coming semester to have more chapter members engaged in contributing back to our community.



USC SPE STUDENT CHAPTER CONTINUES...

Final General Body Meeting

The Final General Body Meeting of the USC SPE Student Chapter for Fall 2015 was held on November 16th at Seeley G Mudd Hall on campus. The meeting started with our student chapter President, Rahul Ranjith, welcoming everyone and giving a brief summary on the current year's events along with a review of the schedule of events planned for the spring semester. Our guest speaker Dr. Farhad Ghassemi, Senior Reserves Consultant at Shell Upstream International Finance (Houston, Texas) and a USC Alumni, gave an informative talk on the future of oil & gas industry jobs. Highlights of his talk were to treat problems or issues as an opportunity, oil and gas price cycles and the resulting hiring and layoffs which will always characterize the oil industry. The best part of his talk was him sharing personal experience to put things in perspective. We are proud of the Trojan spirit he showed and would like to thank him for taking the time to visit us and imparting such valuable knowledge to us.



Poster Presentation Session

On the same day as the Final General Body Meeting, the USC SPE Chapter, in collaboration with the USC Global Energy Network and a few Ph.D students from the Petroleum Engineering Department, organized a poster presentation session for our guest Dr. Farhad Ghassemi. The 13 posters presented covered various research areas currently being pursued by students and faculty from our Petroleum Engineering Department. Dr. Ghassemi was given a brief summary of each poster by its author, and that was followed by a Q & A session. We would like to thank all the students and faculty, who helped make this event a great success.



USC SPE STUDENT CHAPTER CONTINUES...

Luncheon honoring Dr. Sam Sarem

On November 30th, 2015, the USC Petroleum Engineering Department in collaboration with the Los Angeles Society of Petroleum Engineers (LASPE) organized a Luncheon at the Ronald Tutor Hall, USC, to celebrate and recognize Dr. Sam Sarem for his 63 years of service to SPE and the Oil & Gas industry. Delegations from throughout the SPE universe and long time colleagues from his then company of service, Unocal, all came forward to shower praises on Dr. Sarem for his contributions. He was overwhelmed on this occasion as the purpose of this Luncheon was kept a secret from him till his arrival at the venue. There were vibrant testimonials on Dr. Sarem from Dr. Ershaghi (Director, USC Petroleum Engineering Department), Dr. Fred Aminzadeh (Director, USC Global Energy Network), Christian Vaccese (LASPE Section Chair), Dr. Ted Frankiewicz (LASPE Past Section Chair) and many other colleagues of Dr. Sarem. The occasion was also graced by Dr. Sarem's family. All spoke about how and how much he has given to the community, and about how he spread the good will of petroleum industry through all avenues of his life.

Dr. Sarem has been a role model for many professionals and academia in the Oil & Gas industry. Through his career serving the industry, he has held multiple positions in SPE from the Western North American Region Director to the LASPE liaison, to name a few. This Omega Club member, a person who has been a Charter member of SPE Foundation, has brought over 150 members to SPE, which is in itself a great feat. We thank Dr. Sam Sarem for all the help and support he has provided to our chapter, and wish him all the very best for the future.



**LASPE BOARD MEETING MINUTES
BOARD OF DIRECTORS MEETING, OCTOBER 13, 2015**

Attendance:

Christian Vaccese, Section Chair 2015-2016 and Board Member
Ted Frankiewicz, Jr Past Chair 2014-2015 and Board Member
Baldev Gill, Senior Past Chair, Special Event Chair, Board Member – Proxy by Uduak
Brian Tran, Vice Chair, Scholarship Committee, Board Member through 2016
Uduak Ntuk, Outreach Committee, Student Chapter Committee Liaison and B M through 2016
Robert Schaaf, Program Chair, Awards Committee and Board Member through 2016
Susan Weinfurther, Treasurer and Board Member through 2018 – Proxy by Robert
Sergey Piletski, Young Professional Chair, Secretary and Board Member through 2018

Committee Members and Affiliates:

Rick Finken, Past Treasurer
Scott Hara, Outreach Committee
Sam Sarem, Membership Committee
Firas Khan, UCI Student Chapter (not present)
Anjan Chidambaram, UCI Student Chapter (not present)
Uyen Nguyen, UCI Student Chapter (not present)
Harmony N, UCI Student Chapter (not present)
Yangyao Ding, UCLA Student Chapter Social Chair (not present)
Rebecca Chen, UCLA Student Chapter, President (not present)
Everardo Ibarra, UCLA Student Chapter, Vice President (not present)
Aqil Pasua, UCLA Student Chapter, EVP (not present)
Harrison Beamer, UCLA Student Chapter, Treasurer (not present)
Rahul Ranjith, USC Student Chapter, President
Luran Tan, USC Student Chapter, Vice President
Karthik Balaji, USC Student Chapter, Treasurer (not present)
Ashish Mudegowdra, USC Student Chapter, Secretary
Frederick Ojosu, USC Student Chapter, Operations Coordinator (not present)

Proceedings:

- 1) Call to Order – 10:36 AM; Quorum is present
- 2) Approval of this Agenda
Robert Schaaf moved to approve the Agenda, Susan Weinfurther seconded. Approved
- 3) Approval of the Minutes of the Meeting of September 9, 2015. Robert Schaaf moved to approve the Minutes with minor corrections, Uduak Ntuk seconded. Approved

LASPE BOARD MEETING MINUTES
BOARD OF DIRECTORS MEETING, OCTOBER 13, 2015 CONTINUES

- 4) Christian Vaccese has been formally introduced as the LA Basin Section Chair for 2015-16 starting in October.
 - a) Steve Chueng left LASPE Board for OCEC commitment as Chair Person, leaving a vacant spot on the Board Member. We have discussed at the meeting and we would like to ask Steve to keep his Board Position, he is a valuable and irreplaceable Member of our Board.
 - b) Baldev Gill has been announced as the Sr. Past Chair and will serve as Special Events Chair.
 - c) Brian Tran has been announced as the new Vice Chairperson
 - d) Sergey Piletski has been announced as the new Secretary.
 - e) All the Officer positions and Board member Terms has been confirmed.
 - f) Golf Committee new Chair and Members active search. Waiting on Juan's email with potential candidates. Waiting on Mike Filbey and Scott Walker to reply.
- 5) Action Item: official list of Students who received the Scholarship Award (Brian Tran)
- 6) Awaiting for requests from Universities the Student Support for ATCE Registration and Travel, \$8,000 Budgeted, \$4,000 went to USC, remaining \$4,000 to be distributed upon request or kept for future needs.
- 7) REPORTS:
 - a. Treasurer's Report – Susan Weinfurther
 - i. Presentation of proposed Format for Monthly Treasurer's Report. Approval to be requested at October Board meeting.
 - ii. Discussion of proposed 2015-2016 budget. Ted F. outlined the details of 2014-2015 Section spending and suggested Section income requirements for 2015-2016. Focus on golf fundraiser
 - b. Program Chair – Robert Schaaf
 - i. Forum Program for Wednesday October 13, 2015 is Dr Iraj Ershaghi USC;
 - c. Golf Committee: High Priority to find New Chairperson and Member List – Juan Santillian and Mike Filbey dropped out, Scott Walker might be a good candidate or a good helper to find one.
 - i. Continue to hold tournament at Los Serranos or change location is a topic to be discussed with the new Committee. Set Date & # of courses.
 - d. Scholarship Committee – Brian Tran is hosting the Award Ceremony introducing the Awarded Students as previously mentioned the following is the budget/expense report
 - i. \$22,000 Budgeted, \$13,000 Awarded (2 HS, 3 BS, 5 MS, 2 PhD).
 - e. Outreach Activities – Uduak Ntuk is working on the upcoming events.
 - f. YP Activities – Sergey Piletski and Brian Tran are coordinating the upcoming events the next YP meeting will take place on October 29th.

LASPE BOARD MEETING MINUTES
BOARD OF DIRECTORS MEETING, OCTOBER 13, 2015 *CONTINUES*

- g. Awards Committee – Awards Chair person is needed and some additional help as well, we have to act soon.
 - h. Orange County Engineering Council (OCEC) – Steve Cheung is unable to attend in person, we'll have an update from him soon.
- 8) Student Chapter Reports
- a. New Slates of Officers updated by Larry Gilpin on the website: USC, UCI, UCLA, CSULB
 - b. UCLA to complete “Establishment Paperwork” and be included as Student Chapter
 - c. Discussion of Newsletter Report.
- 9) New Business: Approval of new projector. Robert Schaaf moved to approve the purchase, Susan Weinfurther seconded. Approved

The meeting was adjourned at 11.30 am
(Pacific Time Zone).

Respectfully submitted,
Sergey Piletski
LASPE Board Member, YP Chair and Secretary

SELECTED SPE UPCOMING EVENTS 2015 - 2016

Date	Title
December 8 *	Forum speaker Andrei Popa, Chevron and WNAR Director Data-Driven Analytics for Production Impact Assessment During Unplanned Facility System Events
January 12 *	Forum speaker Jesse Frederick, Vp of WZI, Inc "New Regulatory Fronts and How We Can Work in The Challenging Paradigm"
February 9*	Petroleum Technology Forum Distinguished Lecturer Dyan Gibbens How to Save Time, Money, and Reduce Personnel Exposure Using Unmanned Aircraft Systems
May 10 *	Petroleum Technology Forum Distinguished Lecturer Warren Hubler Making Safety Personal in the Oil & Gas Industry
May 13	2016 Annual SPE Charity Golf Tournament
May 23 - 26	SPE Western Regional Meeting - Anchorage, Alaska
September 26 - 28	SPE Annual Technical Conference and Exhibition Dubai, UAE
	Note: * LASPE Board meeting starts at 10:30 a.m. and all members are welcome to observe

DEADLINES FOR NEWSLETTER ARTICLE SUBMISSION

Month	1st Submission Call	Last Submission Call	No Submissions Accepted After	Newsletter Publish Date
January	12/21/15	12/28/15	12/30/15	1/4/16
February	1/17/16	1/25/16	1/29/16	2/1/16
March	2/15/16	2/22/16	2/26/16	2/1/16
April	3/21/16	3/28/16	3/30/16	4/1/16
May	4/18/16	4/25/16	4/29/16	5/2/16
June	5/16/16	5/23/16	5/30/16	6/1/16

SERVICES OFFERED

Secure Your Future

Friendly, Professional Investment Manager.



Gary N. Clark, Ph.D., CFA

*“Dedicated to improving
your retirement portfolio
investment returns.”*

- SPE Member
- No Charge for Initial Consultations

(818) 236-3794

gnclark@clarkassetmgmt.com

ClarkAssetMgmt.com



Clark Asset Management
+ ASSOCIATES, INC. Since 1989

2015-2016 LASPE OFFICERS, BOARD & CONTACTS

Name	Position	E-mail
Christian Vaccese	LASPE Chairperson 2015-2016	c.vaccese@gmail.com
Dr. Ted Frankiewicz	Junior Past Chair - Board Member	tfrankiewicz@specservices.com
Baldev Gill	Senior Past Chair - Board Member	Baldev.Gill@longbeach.gov
Brian Tran	Vice Chair - Board member through 2016	briantran01@yahoo.com
Susan Weinfurther	Treasurer - Board member through 2018	Susan.Weinfurther@crc.com
Sergey Piletski	Secretary - Board member through 2018	Sergey.Piletski@crc.com
Robert Schaaf	Board member through 2016	rschaaf@socal.rr.com
Uduak Ntuk	Board member through 2016	uduak.ntuk@longbeach.gov
open	Board member through 201x	
Committee Chairs		
Robert Schaaf	Awards	rschaaf@socal.rr.com
Robert Schaaf	Forum and Program Chair	rschaaf@socal.rr.com
	Golf	
Uduak Ntuk	Community Outreach/STEM	uduak.ntuk@longbeach.gov
Dr. Sam Sarem	Membership	Sam4IPRC@aol.com
Dr. Iraj Ershaghi	Publication Mentor	ershaghi@usc.edu
Brian Tran	Scholarship	briantran01@yahoo.com
A.B. Gorashi	Training	goras9@aol.com
Sergey Piletski	Young Professional	Sergey.Piletski@crc.com
Dr. Steve Cheung	Nominations	steveior@yahoo.com
Larry Gilpin	Newsletter & Website Editor / Publisher	Larry@4thForge.com
Uduak Ntuk	Student Chapter Liaison	uduak.ntuk@longbeach.gov
Dr. Jalal Torabzadeh	Student Chapter Advisor - CSULB	jalal.torabzadeh@csulb.edu
Guillermo Barrera	Student Chapter Vice President - CSULB	guillermo.h.barrera@gmail.com
Dr. Iraj Ershaghi	Student Chapter Advisor – USC	ershaghi@usc.edu
Rahul Ranjith	Student Chapter President - USC	usc.spe@gmail.com
Dr. Frank Shi	Student Chapter Advisor - UCI	fgshi@uci.edu
Uyen Nguyen	Student Chapter President - UCI	nguyenuh@uci.com
James Liao	Student Chapter Advisor - UCLA	liaoj@ucla.edu
Rebecca Chen	Student Chapter President - UCLA	
Andrei Popa	WNAR Director 2015-2018	AndreiPopa@chevron.com
SPE International	Contact for Sections	sections@SPE.org