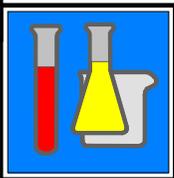




**THE SOCIETY FOR ORGANIC PETROLOGY**



# NEWSLETTER

Vol. 28, No. 1

March, 2011

ISSN 0743-3816

**28th TSOP ANNUAL MEETING  
July 31 – August 4, 2011  
Halifax, Nova Scotia  
Canada**



**Halifax Harbour – Downtown View.**

**See Pages 9-14 for details!**

# TSOP 28<sup>th</sup> Annual Meeting

(Held in partnership with CSCOP)

World Trade & Convention Centre  
Halifax, Nova Scotia, Canada  
See pages 9-14

Conference Theme:  
“Energy Resources and Petroleum Systems in the 21st Century”

Meeting website:

[www.tsop.org/2011Halifax](http://www.tsop.org/2011Halifax) or [www.tsop.org/TSOP-Halifax2011](http://www.tsop.org/TSOP-Halifax2011)

Deadline for abstracts:

**April 30, 2011**

## Planned Schedule

Sunday, July 31 **Short course** - 8:30 to 5pm (*with one hour in-house lunch*)

Tentative title: Geochemistry, Maturation, and Petroleum System Modelling Related to Shale Gas Resource Evaluation TSOP Council meetings (*tentative*)

Monday, August 1 **Technical sessions** - Day 1 (8:30 - 5:30 *with 2 hour break at noon*) Petroleum Systems and Evaluation of the Unconventional Resources (Shale Gas or Shale Oil, Coal Bed methane and Gas Hydrate)  
TSOP-CSCOP 2011 Banquet (7:30-10:00)

Tuesday, August 2 **Technical sessions** - Day 2 (Two concurrent sessions: 8:30 - 5:30 *with 2 hour break at noon*)

1. Offshore Exploration: Source Rocks & Petroleum Systems
2. Clean Coal Technology, CO<sub>2</sub> Sequestration and Other Environmental Issues related to Coal and Petroleum use

Wednesday, August 3 **Field trip** – Day 1: Joggins Fossil Cliffs World Heritage Site & Fossil Museum, Bay of Fundy, Joggins, Nova Scotia.

Thursday, August 4 **Field trip** - Day 2: Mississippian fluvial and lacustrine outcrops and shale gas evaluation in Elgin and Moncton subbasins (with a possible visit to recent shale gas development site)

## The Society for Organic Petrology

**TSOP** is a society for scientists and engineers involved with coal petrology, kerogen petrology, organic geochemistry and related disciplines. The Society organizes an annual technical meeting, other meetings, and field trips; sponsors research projects; provides funding for graduate students; and publishes a web site, this quarterly Newsletter, a membership directory, annual meeting program and abstracts, and special publications.

Members may elect not to receive the printed Newsletter by marking their dues forms or by contacting the Editor. This choice may also be reversed at any time, or specific printed Newsletters may be requested.

Members are eligible for **discounted subscriptions** to the Elsevier journals *International Journal of Coal Geology* and *Review of Paleobotany and Palynology*. Subscribe by checking the box on your dues form, or using the form at [www.tsop.org](http://www.tsop.org). You will then be billed by Elsevier. Contact Paul Hackley <[phackley@usgs.gov](mailto:phackley@usgs.gov)> if you do not receive a bill or have any other problems with a subscription. For the best prices on subscriptions to **AGI's Geotimes**, see their web site at [www.geotimes.org/current](http://www.geotimes.org/current)

**TSOP** is a Member Society of AGI and an AAPG Associated Society.

## The Society for Organic Petrology Newsletter

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**DEADLINES: June Issue: June 5, 2011  
Sept. Issue: Sept. 5, 2011**

Writers, Photographers and Associate Editors Needed!

### GUIDELINES:

The TSOP Newsletter welcomes contributions from members and non-members alike. Readers are invited to submit items pertinent to TSOP members' fields of study. These might include meeting reports and reviews, book reviews, short technical contributions including those on geologic localities or laboratory methods, as well as creative works such as poems, cartoons and works of fiction. Photos, graphs and other illustrations are welcomed. Low resolution images are discouraged as they cannot be reproduced well in print. Articles are preferred in Microsoft Word, RTF or plain text formats.

### Contact the Editor:

Rachel Walker  
1529 N. Alabama St  
Unit D  
Indianapolis, Indiana  
USA 46202  
e-mail: [drachelwalker@gmail.com](mailto:drachelwalker@gmail.com)

### Address Changes

Please report any changes in address or contact information to: Paul Hackley, TSOP Membership Chair, [phackley@usgs.gov](mailto:phackley@usgs.gov)

Members can update their own information by logging into the secure TSOP website: [www.tsop.org/mbrsonly/](http://www.tsop.org/mbrsonly/)

### Society Membership

The TSOP Newsletter (ISSN-0743-3816) is published quarterly by The Society for Organic Petrology and is distributed to all Society members as a benefit of membership. Membership in the Society is open to all individuals involved in the fields of organic petrology and organic geochemistry. For more information on membership and Society activities, please see:

**[www.tsop.org](http://www.tsop.org)**

For purposes of registration of the TSOP Newsletter, a permanent address is: The Society for Organic Petrology, c/o American Geological Institute, 4220 King St., Alexandria, VA 22302-1520 USA

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Officers and Committee Chairs are reminded to provide their records to Ken Kuehn, **TSOP Archivist**. Please contact Ken at [kenneth.kuehn@wku.edu](mailto:kenneth.kuehn@wku.edu) for further information.

\* \* \* \* \*

### Institutional Level Dues Supporter

On behalf of TSOP Council we would like to say thank you to the following Institutional Level Dues Supporter for their consistent support of the Society and its goals.

- [Albert V. Tamashauskyy, Asbury Graphite Mills](#)

## ARE YOU IN THE PRECARIOUS 24 PERCENTILE?

At the moment, 56 members on the active membership count of 237 are precariously sitting on the dues payment arrears fence. On April 1<sup>st</sup>, 20 of these members who are more than one year behind will be dropped from TSOP's active membership list and the rest will continue to have only limited contact with the Society. As soon as you fall into arrears by not paying your dues by Jan 1<sup>st</sup> then you are no longer entitled to receive any TSOP publications which include the quarterly newsletter.

TSOP funding is dependent upon members' dues, so please check to ensure you are up to date. If you are not sure what your dues status is, please check online at [www.tsop.org/mbrsonly](http://www.tsop.org/mbrsonly) or contact the Treasurer at [mavery@nrcan.gc.ca](mailto:mavery@nrcan.gc.ca). Don't forget, you can escape the hassle of yearly dues payments and save money and time by taking advantage of our popular *5 years for the price of 4* discount.

Many members are now choosing to pay their dues online at [www.tsop.org/dues](http://www.tsop.org/dues). The form is easy to follow and allows various payment methods including checks (mostly for US members), money orders, wire and credit/debit/bank card. PayPal provides a secure site for entering your card information and there is NO need to have or create a PayPal account in order to use it. PayPal is the largest online payment provider and it stakes its reputation on proving a safe, secure and hassle free means of paying online.

Since setting up our online dues payment system we have received 38 dues and voluntary donations totaling \$1825 through PayPal without any complaints. One conscientious member donated \$100 online, many thanks to this individual. The majority of registrations for last year's Annual Meeting were processed via PayPal for more than \$13000 without a major hitch.

So please double check your dues status and help TSOP maintain its funding base.

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## 2011 Graduate Student Grant Program Spackman Award

The Society for Organic Petrology (TSOP) invites applications for graduate student research grants, the

Spackman Award. The purpose of the grants is to foster research in organic petrology (which includes coal petrology, kerogen petrology, organic geochemistry and related disciplines) by providing support to graduate students from around the world, who demonstrate the application of organic petrology concepts to research problems.

### Size of the Spackman Award:

Monetary awards up to a maximum of \$1,000.00 US will be granted. TSOP will also provide Merit Awards, in the form of certificates redeemable for TSOP publications, to top-ranking applicants not receiving grants. The program awards a maximum of two grants each year. All applicants are invited to apply for a year's free Student Membership in TSOP.

### Use of the Spackman Award:

Grants are to be applied to expenses directly related to the student's thesis program, such as fieldwork, laboratory analyses, etc. A portion (not to exceed 25%) of the funds may be used to attend TSOP Annual Meetings. Funds should *not* be used to purchase capital equipment, to pay salaries, tuition, room, or board during the academic year.

Funds must be spent by the end of the calendar year following granting of the award, and an account of expenditure with copies of receipts should be provided by the end of that year (December 31, 2012 for awards granted in 2011).

### Review and Ranking of Applications:

A committee of at least three TSOP members (and/or external experts when needed) will review the pool of applications. The reviewers will be drawn from people having no association with the host institution of any applicant. Each reviewer will independently rank each proposal according to established merit criteria, using the Application Evaluation Form included in the application packet. The cumulative score from all of the reviewers will be used to determine the final ranking of the applications. Winners will be notified prior to the 2011 Annual Meeting, and all applicants will be informed by e-mail of the final status of their applications.

**Application Deadline:**

TSOP Spackman Award application deadline is May 16, 2011. Grants will be awarded in September, 2011.

Detailed information and an application form are under "Students" on the TSOP web site:

[www.tsop.org/grants.htm](http://www.tsop.org/grants.htm) Application packages may also be obtained from:

Prof Colin Ward  
Chair, TSOP Research Committee  
School of Biological, Earth and Environmental Sciences  
University of New South Wales  
Sydney, NSW, 2052  
Australia

E-mail: [c.ward@unsw.edu.au](mailto:c.ward@unsw.edu.au)

\* \* \* \* \*

**Call for nominations for the 2011 John Castaño  
Honorary Membership Award**

**Deadline: May 30, 2011**

You are invited to nominate the scientist of your choice for the 2011 John Castaño Honorary Membership Award, The Society for Organic Petrology's highest honor ([www.tsop.org/honmem.htm](http://www.tsop.org/honmem.htm)). The award acknowledges distinction in a scientific discipline of significance to the Society, in recognition of contributions in research, service to TSOP, or education. The John Castaño Honorary Membership conveys life membership in the Society. It is named in honor of John Castaño, one of our most active Houston-based founding members. John served as inaugural Vice-President, and later, as President of TSOP. He was an organizer of three TSOP meetings in the Houston area, and was made an Honorary Member in 1995. John served TSOP in many capacities until his death in 1997; a memorial article was published in the June 1997 issue of the TSOP Newsletter.

If you would like to suggest a candidate for the 2011 Castaño Honorary Membership Award, please submit a letter of recommendation and a brief vita of the nominee to **Isabel Suárez-Ruiz**, Instituto Nacional del Carbon, INCAR-CSIC, Ap.Co.,73, 33080-Oviedo.Spain. **Email: [isruiz@incar.csic.es](mailto:isruiz@incar.csic.es)** by **May 30, 2011**. It is suggested that supporting letters of recommendation from colleagues and other scientists accompany the

nomination package. Emphasis should be placed on the significance of the nominee's work.

Nominations are reviewed by the Castaño Award Committee and results are announced at the Annual Meeting. The selection process is confidential and nominees do not have to be former or current TSOP members.

The committee evaluates research, service and educational impact on the following criteria:

- Research contributions including work that demonstrates a high degree of originality and serves to advance the science of organic petrology or related disciplines. Nominees must possess a sustained international record of professional publication and achievement.
- Nominees recommended for service must demonstrate significance contributions to TSOP in a leadership role. Their service must have enabled the Society to stimulate interest and promote innovative research in coal geology. Contributions include educational activities, administrative duties, or the development of the Society.
- Nominees recommended for education must demonstrate a high degree of dedication and significant impact as a teacher of organic petrology or related disciplines.

**Dr. Isabel Suárez-Ruiz**  
TSOP Vice-President and  
Chair of the Honorary Member Selection Committee

\* \* \* \* \*

**International Journal of Coal Geology**

**Special Issue – *Minerals and Trace Elements in Coal***

**Call for Papers**

The International Journal of Coal Geology will be publishing a special issue on *Minerals and Trace Elements in Coal*, with the aim of providing an up-to-date series of papers covering research and technological developments in the nature, origin and significance of the inorganic constituents of coal seams and associated strata.

Topics to be covered include:

- Toxic and valuable trace elements in coal;
- Minerals in coal and associated strata (e.g. tonsteins);
- Analytical techniques for trace element and mineralogical analysis;
- Behaviour of trace elements during coal utilisation (including spontaneous combustion);
- Mineralogical and chemical properties of coal ashes and other utilisation products.

Papers on other topics relevant to the theme, however, are equally welcome. As well as papers describing previously unpublished research on mineral matter or trace elements in coal, authoritative review papers on particular topics are also encouraged.

Manuscripts should be submitted through the Journal's editorial system at <http://ees.elsevier.com/cogel/>. If you are not already registered with this system you will need to complete the "Registration" process and obtain a user name and password before proceeding. Once these are provided, or if they have been provided for previous submissions of review tasks, you can then proceed to the "Submit New Manuscript" pages.

To ensure that all manuscripts are correctly identified for inclusion into the special issue, it is **very important** that authors select: "**Special Issue: Mineral\_Dai**" when the "Article Type" step is reached in the submission process. This will ensure that the manuscript is recognized as part of the Special Issue, and not treated as a more general submission.

**The deadline for submission of papers is June 30, 2011.**

The editors of the special issue, Shifeng Dai, China University of Mining and Technology ([daishifeng@gmail.com](mailto:daishifeng@gmail.com)) and Colin Ward, University of New South Wales ([c.ward@unsw.edu.au](mailto:c.ward@unsw.edu.au)), would be happy to discuss possible contributions with potential authors, and to advise if necessary on submission procedures.

\* \* \* \* \*

### Seeking Unobtainium

We are searching for some difficult to find parts for a 1980's vintage Leitz Orthoplan reflectance microscope. These are obviously no longer made and rarely appear on eBay and other auction sites. If you have any of the following in inventory and would be willing to part with them for a fair price, please contact Bob Cluff at The Discovery Group Inc, Denver, 1-303-831-1515 or [bobcluff@discovery-group.com](mailto:bobcluff@discovery-group.com)

- 32x/0.65 P inf/0 oel objective
- 50x/0.85 P inf/0 oel objective
- Mirror housing 500
- MPV-compact photometer

\* \* \* \* \*

### In Memoriam

**Hoom-Bin Lo**  
**1945 - 2011**



Dr. Hoom-Bin Lo, a TSOP member who specialized in coal petrology and petroleum geochemistry, died of cancer at M. D. Anderson Cancer Center in Houston on February 9th, 2011 at age of 65. He is survived by his wife Cheng-Chiu and daughter Tiffany.

HB Lo was born on March 11, 1945 in a farming family in Taiwan. He studied at National Taiwan

University, majoring in Geology from 1964-1968. He came to the United States in 1970, received a MS degree from the Northwestern University in Evanston, Illinois and earned his Ph.D. degree from the West Virginia University.

In 1977, he worked for the Geo Chem Co. in Houston and later in 1979 as a petroleum geochemist at Exxon Production Research Co. where he stayed until his retirement in 2000. HB Lo's research interests include coal petrography, fluorescence in organic matter and petroleum geochemistry. He was recognized by his peers for his research efforts in studying vitrinite reflectance suppression. He was one of founding members of a former organization of TSOP, "Organizing Committee for Organic Petrology" chaired by Pieter van Gijssel in 1983. These committee members were presented Founder Awards at the 1994 TSOP Annual Meeting.

HB was a kind, good natured and laid back person with a dry sense of humor. He always had a plan for everything. He was non-biased, non-judgmental and always pushed others to view things from different points of views and angles. He had a variety of interests besides his professional work including computers, bridge, personal finance and tennis. He enjoyed his retirement years volunteering to the communities he was a part of in Houston.

By Wu-Liang Huang

\* \* \* \* \*

### In Memoriam

**Russell R. Dutcher**  
1927-2011



Russell R. Dutcher, an outstanding professor, a talented researcher, a wise administrator, and a distinguished editor of *The International Journal of Coal Geology*, died on the 15<sup>th</sup> of February 2011 in Carbondale, IL after a short illness. He was born October 28, 1927, in Brooklyn, NY and was raised in Montclair, NJ and in Sheffield, MA where he graduated from Berkshire School in 1945. He earned his B.A. degree in geology in 1951 from University of Connecticut, his M.S. degree in geology in 1953 from the University of Massachusetts, and his Ph. D. degree in geology from the Pennsylvania State University in 1960.

He then became the assistant director of the Coal Research Section at Penn State where he worked closely with William Spackman. He became a faculty member in the Department of Geology and Geophysics at Penn State in 1963. In 1970, he joined the faculty of Southern Illinois University Carbondale (SIUC) as chair of the Department of Geology. He established the Coal Characterization Laboratory in the department. He was also instrumental in starting the Coal Research Center at SIUC and served as its first director. In 1983 he was appointed Dean of the College of Science at SIUC and served in that position until his retirement in 1993.

His main areas of research were coal carbonization, coal metamorphism, applied coal petrology, and coalbed methane. His research on coal metamorphism due to igneous intrusions of coal seams is still cited and still being followed up by current researchers. He did some of the earliest work using the electron microprobe on coal and mineral matter as well as using laser-mass spectrometry for coal analysis. He also did innovative studies on the microhardness of macerals and high temperature and pressure experimental studies of anthracite coals.

He published 39 journal papers on these topics. He edited the American Society for Testing and Materials Special Technical Publication 661, *Field Description of Coal* and co-edited the Geological Society of America Special Paper No. 153, *Carbonaceous Materials as Indicators of Metamorphism*. He also co-edited both the road log and invited papers volumes of the IX International Conference on Coal held in 1979. Based on his early work on coal composition related to carbonization he was a co-recipient of the Outstanding Research Paper of the Year Award from the American Iron and Steel Institute in 1960. Forty years later in 2000 he was honored with the Gilbert H. Cady Award from

the Coal Geology Division of the Geological Society of America for his outstanding contributions to the field of coal geology.

As a professor he was a gifted and inspiring teacher who demanded the best from his students. He taught courses in physical geology, field geology, and coal petrology. He was well known for his short courses in coal petrology sponsored by the Geological Society of America and the Society for Sedimentary Geology. Under his guidance seventeen students completed their M. S. degrees and three completed their Ph. D. degrees in coal geology and coal petrology. In 1984, he received the Gordon H. Wood Jr. Memorial Award of the Eastern Section of the American Association of Petroleum Geologists for outstanding contributions to the science of coal geology and in recognition of a long and distinguished teaching career.



He viewed professional service as a responsibility and served on a number of university, government, civic, and professional committees and organizations. He served as both vice-president and president of the Coal Geology Division of the Geological Society of America, the Society for Organic Petrology, the Eastern Section of the American Association of Petroleum Geologists, the SIUC chapter of the Society of Sigma Xi, the Midwest Coal Section of the American Institute of Mining, Metallurgical, and Petroleum Engineers, and the Yellowstone-Bighorn Research Association.

He also served in positions in the American Society for Testing and Materials and the American Institute of Professional Geologists. In recognition of his service he was awarded the Distinguished Service Award by the Coal Geology Division of the Geological Society of

America, the Martin C. Van Couvering Memorial Award from the American Institute of Professional Geologists for his outstanding contributions, and the first “Russ Dutcher” Distinguished Service Award from the Yellowstone-Bighorn Research Association.

After the retirement of Willian Spackman, the founder and first editor, he took over the *International Journal of Coal Geology* as Editor-in Chief. He oversaw the publication of 29 volumes (64 issues) of the journal including 14 special issues. He added a number of talented editors and reviewers, encouraged industrial contributions, and maintained the international nature of the journal. He became honorary editor in January of 1999.

Prepared by John C. Crelling

\* \* \* \* \*



**Scenic Peggy’s Cove – Halifax, Nova Scotia, Canada**

**Credit for Peggy’s Cove lighthouse photo: Taxiarchos228 at the German language Wikipedia [GFDL ([www.gnu.org/copyleft/fdl.html](http://www.gnu.org/copyleft/fdl.html)) or CC-BY-SA-3.0 ([www.creativecommons.org/licenses/by-sa/3.0/](http://www.creativecommons.org/licenses/by-sa/3.0/))], via Wikimedia Commons**

**TSOP 28<sup>th</sup> Annual Meeting**  
**July 31 –August 4<sup>th</sup> 2011**  
**Halifax, Nova Scotia, Canada**

Meeting website address:

[www.tsop.org/2011Halifax](http://www.tsop.org/2011Halifax) or [www.tsop.org/TSOP-Halifax2011](http://www.tsop.org/TSOP-Halifax2011)

**ORGANIZING COMMITTEE**

Chair: Prasanta Mukhopadhyay (Muki), Global Geoenergy Research Ltd      [muki@global-geoenergy.com](mailto:muki@global-geoenergy.com)

Co-Chairs: Mike Avery, Geological Survey of Canada - Atlantic      [mavery@nrcan.gc.ca](mailto:mavery@nrcan.gc.ca)  
Dave Brown, Canada Nova Scotia Offshore Petroleum Board      [dbrown@cnsopb.ns.ca](mailto:dbrown@cnsopb.ns.ca)  
John Calder, Nova Scotia Department of Natural Resources      [jhcalder@gov.ns.ca](mailto:jhcalder@gov.ns.ca)  
Paul Harvey, Nova Scotia Department of Energy      [harvey@pj.gov.ns.ca](mailto:harvey@pj.gov.ns.ca)  
Hamed Sanei, Geological Survey of Canada – Calgary      [hsanei@nrcan.gc.ca](mailto:hsanei@nrcan.gc.ca)

**CALL FOR PAPERS**  
**Abstract submission deadline:**  
**April 30, 2011**

**Expression of interest:**

Please send us a note to inform us that plan to attend. If you want to make a presentation then send us a preliminary title for your talk or poster. Abstracts must be submitted by the due date and in the format listed below.

**Author Information:**

All abstracts must be between 200-500 words and include the title, list of authors and their affiliations, and contact information for the presenting / submitting author (email and telephone number). Text must be in 12pt Arial font, with the title in bold and centred, along with the author information (centered and unbolded). The abstract shall be justified left with a space between paragraphs. Please send a copy of the abstract document to the following:

- Prasanta Mukhopadhyay: [muki@global-geoenergy.com](mailto:muki@global-geoenergy.com)
- Mike Avery: [mavery@nrcan.gc.ca](mailto:mavery@nrcan.gc.ca)

Electronic submissions a highly recommended, though if required hard copies can be mailed to the Conference Chair:

Dr. Prasanta Mukhopadhyay  
Global Geoenergy Research Ltd.  
PO Box 9469, Station A  
Halifax, Nova Scotia  
B3K 5S3  
Canada

**Location & Venue:**

All conference events will be held at the World Trade & Convention Centre, 1800 Argyle Street in the centre of the city. The WTCC is steps away from hotels, restaurants, parks and other amenities. Information on the venue can be found on its website: <http://www.wtcchalifax.com>

**Registration:** Pricing to be finalized soon but will be approximately \$300US. Please check the website and watch for email announcements. An online registration form will soon be available along with a printable hardcopy mail-in version.

**Short Course:**

A one-day short course is planned for Saturday, July 30<sup>th</sup>. The course, tentatively titled “*Geochemistry, Maturation, and Petroleum System Modelling Related to Shale Gas Resource Evaluation*”, will have three segments and instructors:

- “*Shale Gas Geochemistry*” - Dan Jarvie, Worldwide Geochemistry Inc.
- “*Shale Gas Modelling*” - Dr. Thomas Hantschel, Schlumberger Inc.
- “*Maturation and Organic Facies*” -Dr. Prasanta Mukhopadhyay

Details on the course and its cost will be provided shortly

**Field Trip:**

A two-day trip is planned with Day 1 being a day-long excursion along the cliffs of the Pennsylvanian fluvial and coal successions of the famous Joggins Fossil Cliffs World Heritage Site followed by a visit to the site’s new museum. Day 2 will be spent in the Sussex, New Brunswick area examining outcrops of Mississippian gas-producing fluvial reservoir and lacustrine source facies, and later a trip to an active shale gas producing facility. Pricing and additional information will be posted shortly.



Above: Outcrop section from New Brunswick shale gas field trip area.

Right: Famous Joggins tree trunk fossil with TSOP Honorary Member Aureal Cross for scale. Photo credit: John Calder, Nova Scotia Department of Natural Resources. Taken during the 1992 Euramerican Coal Province Symposium.

**TSOP 28<sup>th</sup> Annual Meeting  
Halifax, Nova Scotia  
July 31-August 4, 2011**

		<b>Sunday July 31<sup>st</sup></b>	<b>Monday August 1<sup>st</sup></b>	<b>Tuesday August 2<sup>nd</sup></b>	<b>Wednesday August 3<sup>rd</sup></b>	<b>Thursday August 4<sup>th</sup></b>
<b>800</b>	am	Registration			Field Trip  Day 1	Field Trip  Day 2
<b>830</b>		Short course	Technical Presentations	Technical Presentations		
<b>900</b>						
<b>1000</b>						
<b>1030</b>						
<b>1100</b>						
<b>1130</b>						
<b>1200</b>	pm	Lunch	Business Lunch (Annual General Meeting)	Lunch (Group Photo)	Joggins Fossil Cliffs World Heritage Site & Fossil Museum  Bay of Fundy Joggins, Nova Scotia  Leader: Dr. John Calder  (Travel to and overnight in Sussex, N.B.)	Reservoir and fluvial facies outcrops, and shale gas evaluation site in the Elgin and Moncton Subbasins  Sussex Area, New Brunswick  Leaders: Dr. David Keighley & Steven Hinds  (Return to Halifax with stop at the Airport)
<b>1230</b>						
<b>100</b>		Short course	Technical Presentations	Technical Presentations		
<b>130</b>						
<b>200</b>						
<b>230</b>						
<b>300</b>						
<b>330</b>						
<b>400</b>						
<b>430</b>						
<b>500</b>		Dinner Break				
<b>530</b>						
<b>600</b>						
<b>630</b>						
<b>700</b>						
<b>730</b>	Registration & Ice Breaker	Banquet with Guest speaker	Field Trip – Travel to and overnight in Amherst, N.S (~2 hours drive)			
<b>800</b>						
<b>830</b>						
<b>900</b>						
<b>930</b>						

**Note on Executive Council Meetings:**

The outgoing meeting is tentatively scheduled for Saturday, July 30 from 5:00 to 8:00 pm and the Incoming Meeting for Monday, August 1 from 5:00 to 7:00 pm. Details of meetings venues will be provided shortly.



**Peggy's Cove surf one day after Hurricane Noel, November 4, 2007**

Credit: [gsc.nrcan.gc.ca/coast/storms/noel/peggyscove\\_e.php](http://gsc.nrcan.gc.ca/coast/storms/noel/peggyscove_e.php)

## **Halifax & Nova Scotia: Geology Shapes Our Scenery**

Halifax is located on Canada's east coast and has a deserved reputation as a beautiful scenic area. The rugged Atlantic coastline and gentle topography were sculpted by recent glaciation events superimposed on the largely Cambrian to Ordovician sedimentary deposits of the Meguma Terrane on the south mainland area which butts against the Avalon terrane to the north including Cape Breton Island. The two terranes are joined by the major east-west the Minas Fault Zone, which transects the province from the northeast tip of the mainland on the east to the Bay of Fundy in the west.

The highlands in the 'Celtic' areas of the northeastern mainland and Cape Breton are part of the Canadian Appalachians. For a large part of its coast the Cape Breton highlands rise directly from the shoreline forming magnificent views from the famous coast-hugging route called the Cabot Trail, named after John Cabot the 15th century explorer of the area. If you Google Cabot Trail, you will get a link to [Images from Cabot Trail](#) which will give some of the flavour of this region.

On the south coast another famous area was created by large boulders called glacial erratics, composed of 415-million-year-old Devonian granite. With evidence of the scouring marks are still visible in the nearby bedrock the Peggy's Cove lighthouse area juts out into an often hostile North Atlantic surf that seems to try to beat down these huge granites. If you Google Peggy's Cove, you will get a link to [Images from Peggy's Cove](#) which will display fifty pages or more of one of the most photographed areas in this region.

## Travel Information

The city of Halifax, Nova Scotia is easily reached by air, sea, car, and rail. The Halifax International Airport is the Atlantic Canadian centre for domestic, regional and international flight service. It has over 600 flights a week with direct flights from many Canadian, U.S., European, and Caribbean destinations, in addition to many more connecting flights. Halifax is geographically closer to Boston (fly time 1.45 hours) and New York (fly time 2.25 hours) than any other Canadian city and over one hour closer to Europe than any other major North American city. There are over 20 daily flights from Toronto (fly time 2 hours), 10 from Montreal (fly time 1.5 hours) and 11 from Ottawa (fly time 1.75 hours). A number of non-stop direct flights fly daily / weekly into Halifax:

- International: London (Heathrow and Gatwick), Frankfurt, Paris, Reykjavik, Glasgow and Belfast.
- American: Boston, New York (LaGuardia and JFK), Chicago, Newark, Atlanta, Detroit and Washington
- Canadian: Toronto, Montreal, Ottawa, Hamilton, Calgary, Edmonton, and Regional: St. John's, Deer Lake, Goose Bay, Sydney, Charlottetown, Moncton, Saint John and Fredericton.

For airline contact information visit the [Halifax International Airport website](http://www.hiaa.ca) @ [www.hiaa.ca](http://www.hiaa.ca) . Travel into the centre of Halifax from the airport takes about 25-35 minutes depending on the traffic and can be via taxi, limousine or hotel shuttle bus. Please visit the Airport website for details.

### Tourist and Related Information / Maps, Etc:

[Google Map Directions](#)

[Halifax Tourism](#)

[Destination Halifax](#)

## Spousal / Partner tours

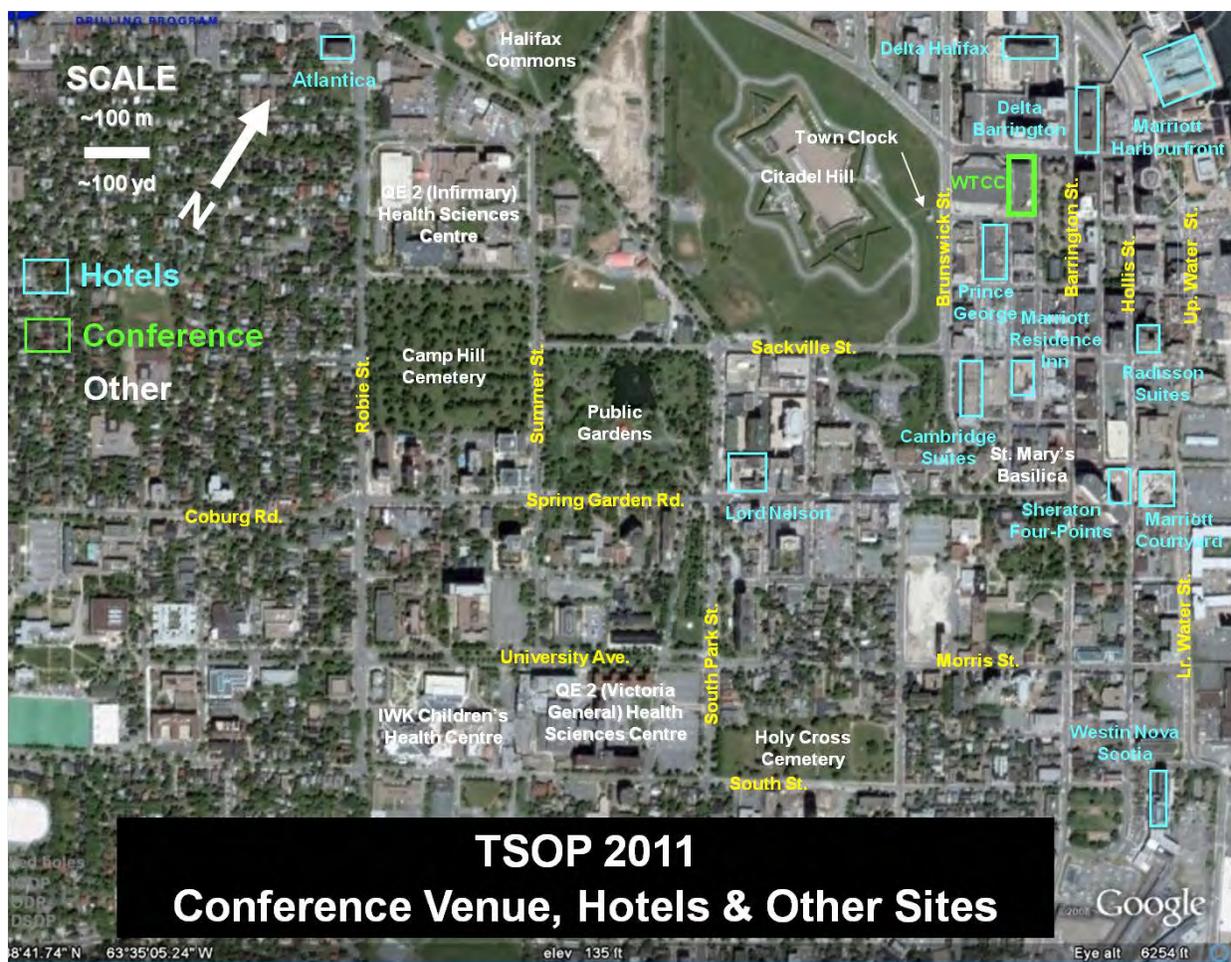
A one day trip is planned to the renowned ship building and fishing port of Lunenburg, another UNESCO World Heritage site. Get a taste of a sea farers life in this famous port (see image below) with an outstanding seafood lunch. A half- day trip is planned to Peggy's Cove and its famous lighthouse.

A view of Lunenburg from the waterfront.

Photo credit:

[www.travelandtransitions.com/stories\\_photos/lunenburg.htm](http://www.travelandtransitions.com/stories_photos/lunenburg.htm)





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## Calendar of Events

2011

**May 9-12, 2011:** World of Coal Ash 2011 Conference will be held in Denver, Colorado at the Marriott Tech Center. Abstracts due by December 1, 2010. [www.worldofcoalash.org/](http://www.worldofcoalash.org/)

**July 31 - August 4, 2011:** TSOP 28<sup>th</sup> Annual Meeting (in partnership with CSCOP), Halifax, Nova Scotia, Canada. [www.tsop.org/2011Halifax](http://www.tsop.org/2011Halifax)

**August 14-19, 2011:** Goldschmidt Conference, Prague, Czech Republic. [www.goldschmidt2011.org/](http://www.goldschmidt2011.org/)

**September 5-7, 2011:** 44<sup>th</sup> Annual AASP Palynological Society Meeting, South Hampton, England. [www.palynology.org/meetings.html](http://www.palynology.org/meetings.html)

**September 12-15, 2011:** 28<sup>th</sup> International Pittsburgh Coal Conference, Pittsburgh, PA, USA. [www.engr.pitt.edu/pcc](http://www.engr.pitt.edu/pcc)

**September 18-23, 2011:** 25th International Meeting on Organic Geochemistry (IMOG) will be held in Interlaken, Switzerland. [www.imog2011.com](http://www.imog2011.com)

**October 9-12, 2011:** Geological Society of America (GSA) Annual Meeting, Minneapolis, Minnesota, USA. [www.geosociety.org/meetings/2011/](http://www.geosociety.org/meetings/2011/)

# 3<sup>RD</sup> ICCP TRAINING COURSE

## Organic Petrology Gondwana Flavour

9 – 13 May 2011

Johannesburg, South Africa



**Course Venue:** WITS Professional Development Hub

University of the Witwatersrand

Empire Road, Johannesburg, South Africa

### Instructors

Dr Alan Cook (Australia)  
Prof (em) Claus Diessel (Australia)  
(International experts & appointed  
by the ICCP)

### Course Coordinators

Prof Nikki Wagner (South Africa)  
Prof Lopo Vasconcelos (Mozambique)  
Prof Rosemary Falcon (South Africa)

**The course is specifically aimed at postgraduate students and people new to the field of organic petrology**

### Programme (Broad Outline)

1. Introduction to Petrology
  - History of organic petrology and the ICCP
  - The petrographic microscope
  - Practical session & techniques
2. Coalification & Classification
  - Coal deposits globally and in Gondwana specifically
  - Coalification, stratigraphy, classification
3. Applications
  - Sedimentological aspects
  - Interpretation for exploration
  - Applications to oil & gas exploration
  - Char petrology & practical session
4. Applications, Case Studies & Extended Practical Session
  - Char petrology
  - Coke petrology
  - Extended practical session
  - Students are welcome to bring along own sample for discussion

### Field Trip 13 May 2011

Explore the wonder of power generation. At Lethabo Power Station Visitor's Centre you will be introduced to the Story Behind the Switch!

### Registration Fees

<b>Company / Professional</b>	<b>€1000</b>
<b>Government / Non profit</b>	<b>€500</b>
<b>Full-time students</b>	<b>€320</b>

Costs exclude travel & accommodation.

Costs include teas, lunches, field trip & notes.

**Course language:** English

**Space limited to 25 participants**

For further details visit [www.iccop.org](http://www.iccop.org) activities or  
Professor Lopo Vasconcelos, Vice President of the ICCP [loloivasconcelos@gmail.com](mailto:loloivasconcelos@gmail.com) or  
Professor Nikki Wagner for local organization enquiries [Nicola.wagner@wits.ac.za](mailto:Nicola.wagner@wits.ac.za)  
**Registration enquires [robbie@rca.co.za](mailto:robbie@rca.co.za)**



**U. PORTO**  
FACULDADE DE CIÊNCIAS  
UNIVERSIDADE DO PORTO

# ICCP Training Course on Dispersed Organic Matter

September 7-9, 2011, Porto, Portugal



## Course venue:

Departamento de Geociências, Ambiente e Ordenamento do Território,  
Faculdade de Ciências da Universidade do Porto (Porto, Portugal).

## INSTRUCTORS:

· Prof. João Graciano  
Mendonça Filho (Brazil)

· Dr. Alan Cook (Australia)

## PROGRAMME

1. Dispersed Organic Matter (DOM): Concepts and definitions  
- João Graciano (1:30h)
  - 1.1. OM production, processing and sedimentation
  - 1.2. OM evolution and chemical composition of biomass
2. Transmitted light microscopy techniques (white and fluorescence lights) – João Graciano (6h theoretical and 3h practical)
  - 2.1. Sample preparation
  - 2.2. Classification of OM
  - 2.3. Maturation: SCI-Spore Colour Index; spectral fluorescence
  - 2.4. Applications: organic petrography, palynology and palynofacies
  - 2.5. Organic facies
3. Reflected light microscopy techniques (white and fluorescence lights) – Alan Cook (6h theoretical and 3h practical)
  - 3.1. Sample preparation and Standardization
  - 3.2. Petrography of OM: Nomenclature and applications
  - 3.3. Maturation: huminite/vitrinite reflectance and spectral fluorescence
4. Case studies (2h theoretical for each instructor and 2h practical for questions)

## Field trip

### September, 10-11, 2010

One and half day field trip entitled "The Lower Jurassic of the west coast of Portugal: Stratigraphy, geological heritage and organic matter record"

## Registration fees

Company / Professional	750 €
Government / non-profit	400 €
Students	200 €
Field Trip	180 €