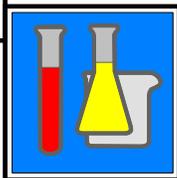




THE SOCIETY FOR ORGANIC PETROLOGY



NEWSLETTER

Vol. 29, No.1

March, 2012

ISSN 0743-3816

**29th TSOP ANNUAL MEETING
& 64th ICCP Meeting
September 15 – 24, 2012
Beijing, China**



Stone Forest, Yunnan Province, China.

Photo from meeting website:

www.iccp-tsop2012.org

Call for Papers - Abstracts due July 15, 2012

**TSOP 29th Annual Meeting
& 64th ICCP Meeting**
September 15-24, 2012
Beijing, China

www.iccp-tsop2012.org

Call for papers: Abstracts due July 15, 2012

Abstract should be submitted by July 15, 2012 via email at tsopiccp2012@gmail.com or daishifeng@gmail.com

If submitting by post, please enclose a copy of your abstract on a CD at the following address:

Prof. Shifeng Dai
State Key Laboratory of Coal Resources & Safe Mining
China University of Mining and Technology (Beijing)
D-11, Xueyuan Road, Haidian District
Beijing 100083
P.R. CHINA

Organizing Committee:

Chairs: Profs. Jianyong Qiao & Suping Peng

Executive Chairs: Profs. Shifeng Dai & Kuili Jin

Co-Chairs: Yaodong Jiang, Yucheng Chai,
Jinxing Dai, Tieguang Wang,
Zhijun Jin, Yupeng Yao,
Yu Liu, Yuzhuang Sun,
Mingquan Zhang, Dahua Li,
Yuegang Tang, Hongmei Wang,
Daiyong Cao, Jian Li.

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 and field trips; sponsors research projects; provides funding for graduate students; and publishes a web site, a quarterly Newsletter, 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. Members are eligible for discounted subscriptions to the Elsevier journals *International Journal of Coal Geology* and *Review of Palaeobotany and Palynology*. Subscribe by checking the box on your dues form, or using the form at www.tsop.org. Contact Paul Hackley 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

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

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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, 46202, USA
e-mail: drwalker@gmail.com

Address Changes

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

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

The TSOP Newsletter 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:

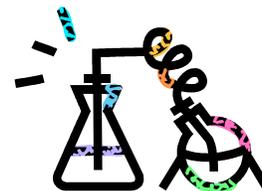
www.tsop.org

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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Newsletter Submission Deadlines

June Issue: June 10th, 2012
September Issue: September 10th, 2012
December Issue: December 10th, 2012
March 2013 Issue: March 10th, 2013

Members-only Website Update



Do you know what you are missing? The advantages of activating your Members-only account keep stacking up as new features and improvements are added to the site. Logged in members now are able to:

- see their dues history (My dues history),
- edit their contact information or see other private information like dues expiry date (My information),
- search the online membership directory (Online directory),
- access Annual Meeting abstract volumes along with group photos and even some field trip guides and short course notes (Ann Mtg Documents),
- easily access dues and/or voluntary donations via the online payments system.

Access to your dues payment history is a new feature which lists all of the dues payments of the member as far back as 1998. The limit of 1998 is because it is the approximate start date of the records available when the current dues payment database was created.

Recent improvements: Addition of the option to include **your photos in the online directory**, improved layout and operation of Annual Meeting Abstract Volumes pages, separation of My dues payment history from My information, and automation of the account activation process.

The Abstracts pages have been significantly improved so that the selection of a specific meeting and the list of items from that meeting are all presented on one page so the member does not need to 'Go back' one page to browse the items from another meeting. Items available from the meetings vary from just the Abstracts Volume to the six items from the 2004 Sydney meeting. Thanks to the Sydney group for providing their abstract volume, two group photos, two field trip guides and notes from the short course.

The **automation of account activation** provides a much better response time when a member is activating their account for the first time or resetting a forgotten password. The member goes through a step to identify themselves and then a unique activation email is sent to their email address. This only takes a few minutes and is

accomplished without any interaction from the site manager. This greatly reduces the workload of the site manager as well as making it more convenient for members.

Activating your account is easy. See 'Activating your account' on the Member-only main page at www.tsop.org/mbronly or via the 'Members only' link on www.tsop.org.

Again, your suggestions for how to make use or improve the secure site are welcome.

Mike Avery
TSOP Treasurer and secure website manager

Photos for online directory

The option of including your photo in the secure online directory was inspired from the recent initiative to include photos of new members in the Newsletter. This feature has become popular for the online directory as well and since its announcement a number of members have provided a photo for their information display. At the moment there have been more than 54 photos uploaded. The names of members with photos are highlighted in the dropdown selection list. Portrait or passport-like photos work the best.

Photos of all sizes are gladly accepted but the web display is restricted to 150x200 pixels. Therefore, all large images are cropped and resized to provide a jpeg file of appropriate size.

On a point of interest, the request for photos from the members included a request for 150x200 pixel size photos but of the 40 plus submitted only one was sent with these exact dimensions. Congratulations go to new member Justin Birdwell!

Send us a photo for the directory. They don't have to be glamour shots just snap one and send it in. Take a look at some of the photos in the directory and get to know your fellow members. Thanks.

Mike Avery
TSOP Treasurer and secure website manager

Dues reminder

Members who have not paid their 2012 dues by January 1st are considered in arrears and if they haven't paid by March 31st they are dropped from the membership list. Please make an effort to keep your dues payments current. Many members are now choosing to pay their dues online at www.tsop.org/dues. The form is easy to follow and works for all payment methods including checks (mostly for US members), money orders, wire transfer and credit/debit/bank card.

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 or contact the Treasurer at 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.

Mike Avery
TSOP Treasurer

New TSOP Members



Gareth Cooper

Gareth Cooper graduated with a PhD from Monash University in 1996 where he studied the structural and petroleum geology of the Otway Basin. As part of this study he incorporated organic petrology and vitrinite reflectance (VR) measurements using reflected light microscopy facilities at the Herman Research Laboratories. His main area of interest has been the utilization of VR and maceral data in the Otway Basin, NW Shelf and PNG as a compliment to understanding basin evolution and for palaeo-heat flow modeling, in particular the incorporation VR data with FMM and fission track thermochronology.



Ioannis K. Oikonomopoulos

Dr. Oikonomopoulos completed his undergraduate education at the University of Patras in geology and PhD at the National Technical University of Athens in 2010. His research interests include the application of FTIR to structural analysis of lignite macerals, paleoenvironment reconstruction through organic petrology techniques, and the role of clay minerals in the formation of lignite-bearing sequences.



Kayode Adegoke

Mr. Adegoke completed his undergraduate education in geology at Ekiti State University, Nigeria, in 1998, and MSc in geology at the University of Ibadan, Nigeria, in 2003. Currently he is pursuing PhD studies in organic petrology and organic geochemistry at the University of Malaya in Kuala Lumpur, Malaysia, under the supervision of Dr Wan Hasiyah Abdullah. He is also an Assistant Lecturer at the Department of Geology, Ekiti State University.

2012 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, 2013 for awards granted in 2012).

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 2012 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 18, 2012. Grants will be awarded in September, 2012.

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

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



The John Castaño Honorary Membership Award 2012 Final Call for Nominations



Deadline: May 31, 2012

Once again, members are invited to nominate candidates for the 2012 John Castaño Honorary Membership Award. Candidates must have distinguished themselves in either research and/or teaching in Organic Petrology or Geochemistry; or made outstanding contributions to the Society. The Award will be announced at the annual meeting in Beijing on Sept 24th, 2012. The recipient for 2012 will receive a lifelong membership in the Society.

If you wish to nominate a colleague or member, please consult the TSOP website for specifics regarding qualifications and requirements and submit the nomination and supporting documents to:

*Dr. Judith Potter
JP PetroGraphics
90 Patterson Close SW
Calgary, Alberta
Canada T3H 3K2*

or e-mail: jpp@sitogeo.com.

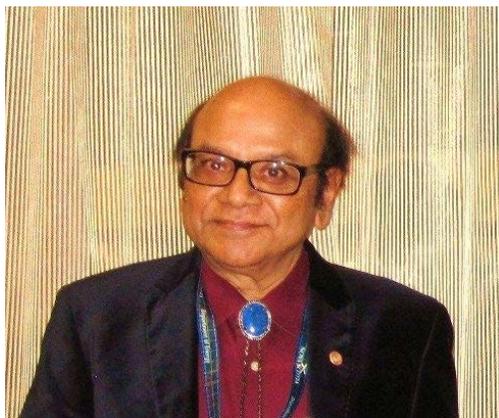


***2011 Castano Honorary Membership
Award***

Dr. Prasanta K. Mukhopadhyay (Muki)

Awarded during TSOP Halifax 2011 Meeting

(Reply by Muki on that day)



Wow! Thank you, thank you, thank you. This honour is amazing and fascinating. It feels like receiving an Oscar from the Academy in Hollywood although it is from my beloved society of TSOP. Once again, I would like to thank to Hamed (Outgoing President), and Isabel (Incoming President) and all of the TSOP Council and Committee Members for bestowing me with the greatest award that as an Organic Petrologist can achieve. As always, this day, I am quite happy, honoured and proud to be an Organic Petrologist. I am still in great shock

because I had not being informed earlier about the award by either Mike Avery or Hamed Sanei. I was not sure what I was going to say in my acceptance speech.

My first outburst of expression brings back one country song by Bill Carrington that says "God is Great, Beer is Good, People are Crazy". The key idea of this song is to thank God for providing me with an astonishing blessing and by giving me this award. I would also like to thank all the people who gave me this award. I am sure at this moment that all of the TSOP Members who were sitting at the Head Table in front of me at the TSOP Halifax 2011 General Body Luncheon Meeting must be crazy enough to present me with this great award. As mentioned earlier, I would sincerely thank the God Almighty for all the help, guidance and opportunity that were given to me throughout my life.

At the beginning of my speech, I would like to sincerely thank to my parents Debendra Nath and Gouri Rani Mukhopadhyay to whom I am always grateful for their constant love, affection, and proper guidance on health and education. My Dad was my primary mentor for all my research. I learned from my Dad (a Pulp & Paper Chemist) the meaning of organic chemistry which helped me in understanding the meaning of subtle details of petroleum geochemistry. I also gracefully acknowledge and thank my wife (Seuli) and my son Saikat for their constant help, support, and guidance for my work.

For my educational and professional life, I have at least two to three mentors who have changed my path of understanding organic petrology and petroleum geochemistry. My next mentor after my Dad is my Masters and PhD Thesis research guide Prof. Bankim Mukherjee of Jadavpur University, Calcutta who incidentally was also the Founding Member of ICCP. I sincerely acknowledge his help for my choice of educational direction which helped me becoming an organic petrologist. In 1964, Prof. Mukherjee introduced me to the mysteries of "vitrinite reflectance" (using Berek's Photometer) and coal facies analysis for my PhD thesis work on coal geosciences. Two other mentors who immensely helped to change my career choice are as follows: (1) Dr. Marlies Teichmuller (legendary organic petrologist from Krefeld, Germany) who was later my PhD Thesis external examiner and (2) Prof. Dietrich Welte from RWTH Aachen and Institute of Petroleum Geochemistry, Juelich, Germany (world renowned petroleum geochemist and the father of source rock geochemistry).

I graciously acknowledge and thank Prof. Dietrich Welte of Aachen, Germany who introduced me to the source rock petrology and petroleum geochemistry in 1975-1976 and in 1980-1984. I learnt from Prof. Welte and his Group in Juelich, Germany, the intricate details of petroleum exploration strategies using the correlation of organic petrology and petroleum geochemistry from various basins of the world including the DSDP and ODP projects in the Atlantic Margin. This work leads me in 1982 to the discovery of gas hydrates (unconventional resources) in the DSDP Leg 87A in the Nankai Trough, Japan along with the DSDP team. I would also like to acknowledge Prof. Hans Hagemann from RWTH, Aachen, Germany who introduced me to kerogen/whole rock petrography of source rock, crude oil and bitumen extract in 1975-1976. In 1976, I learnt to use spectral fluorescence analysis from Dr. Marlies Teichmuller in her laboratory in Krefeld, Germany.

Finally, for the 2011 TSOP Castano Honorary Membership Award, I am highly indebted to Mike Avery of Bedford Institute of Oceanography, Geological Survey of Canada Atlantic, Dartmouth, Nova Scotia and Dr. Hamed Sanei of Geological Survey of Canada, Calgary, Alberta who initiated and worked for a long period of time on the 2011 Castano Honorary Membership Award. They received full support from all the members of 2010-2011 TSOP Council. I am extremely grateful to both of them for their gracious effort in supporting me. I also gracefully acknowledge and thank three of my great friends for their wonderful support and fascinating references: Dr. Fari Goodarzi, GSC, Calgary, Dan Jarvie, Worldwide Geochemistry, Humble, Texas and Prof. Dietrich Welte, Advisor to Energy Policy for the Current Federal German Government. I would also like to thank the Late John Castaño, a longtime friend (since my ICCP time in 1980s) who first encouraged me to get involved in the TSOP in 1985 in Houston, Texas during the oncoming council meeting of TSOP at the conference.

I thank Dr. Sanjib Biswas, Director, IPE and Mr. S. Talukdar, Chairman, ONGC both of whom gave me the opportunity at the KDMIPE, ONGC (Oil and Natural Gas Company) in Dahra Dun, India to work as a geochemist between 1978-1980 that helped me understanding the source rock petrology and geochemistry and the use of maturation parameters in various oil and gas basins in India in great details. Similarly, I gratefully acknowledge Dr. William Kaiser, Sr. Geoscientist and Prof. Bill Fisher, Director, Texas Bureau of Economic Geology during my research tenure

in Austin, Texas to work on the Texas Tertiary Lignite and Source Rock Geochemistry of the Paleozoic sediments from West Texas between 1985-1987 at the Texas Bureau of Economic Geology, The University of Texas at Austin, Texas. I also thank Dr. Dieter Birk of GeoFuel Research Inc, Sydney, Nova Scotia who first provided me with the opportunity to immigrate to Canada in 1988 which eventually build my research goal and company.

I would also like to thank my friends Wallace G. Dow, Prof. Alan Davis, Dr. Bob Finkelman who have introduced me with various references and help during 1985-1987 and 1990-1992. During my long career (between 2011-1990) as a research scientist on coal and petroleum geosciences, various company executives and sincere friends have helped me in securing contracts that have kept me preoccupied with conducting my research on organic petrology and petroleum geochemistry associated in Coal and Petroleum Geosciences and Environmental Geosciences. I am sincerely grateful to all of them for their help and support.

In Memoriam

Dr Alan Cecil Cook



1935 –2011

Alan was born 22nd of May 1934, in Newcastle-upon-Tyne in Northern England, the son of a coal miner. He undertook his early education at the Royal Grammar School, and won a scholarship to Cambridge. Alan's three great interests were science, aviation and sport and whilst at school was a fast bowler in the 1st XI cricket team.

At Cambridge he studied geology, physics and mathematics with a major in paleontology, and subsequently received his Bachelors, Masters and PhD degrees. In 1990 he was awarded the prestigious Doctor of Science for his international contribution to science. He was also a Fellow of the Australian Academy of Technological Sciences and Engineering and was awarded the Reinhardt Thiessen medal in 1996.

After completing his studies, Alan went on to work for the UK National Coal Board before moving to Australia in 1959 where he joined CSIRO. During his tenure at CSIRO, Alan developed his interests in the petrography of coal and coke. He later worked for the Joint Coal Board of New South Wales where he was introduced to using large computer databases.

In 1964 Alan was appointed as a lecturer in geology in the Department of Metallurgy at the University of Wollongong. As the University grew, geology became a department in its own right and Alan was appointed the first head of the Department of Geology. Under his guidance, staff and student numbers grew and he was appointed Foundation Professor of the department at the young age of 35. While Alan was well prepared for stratigraphy, sedimentology and biostratigraphy, teaching in a small university required him to master subjects including crystallography, organic chemistry and coal beneficiation. His grounding in mathematics allowed him to branch into mathematical geology, geostatistics and computing, becoming a founding member and initial Australian representative for the International Society of Mathematical Geology. One of his first Ph.D students was Bob Johnson who went on to found Maptek a leading Australian mining software company.

Alan continued as head of the department until just before his resignation from the university in 1990. Alan made organic petrography on the important fields of research during his tenure at the university. He used research grants to improve facilities and with the purchase of a microscope with fluorescence capabilities he pioneered fluorescence studies in Australia.

Alan was one of the first heads of department at the University of Wollongong to realize the benefits of international students from Asia, both financially and culturally. Through his efforts, the Department of Geology gained many Masters Degree and PhD graduates from countries such as India, Sri Lanka, Korea, Indonesia, Iran and Iraq.

In 1978, whilst working at the University of Wollongong, Alan set up a consultancy company at home, Keiraville Konsultants Pty Ltd which specialized inorganic petrography, especially vitrinite reflectance and maceral analysis for petroleum source rocks. Keiraville Konsultants became a well-reputed consultancy providing services to the oil and gas industry in Australia and around the world. He was a member of the Petroleum Exploration Society of Australia and the Geological Society of Australia.

Alan gained an international reputation for his expertise in coal, petroleum generation and resources and published over 100 journal articles including some of the seminal work on the use of early maceral studies for the estimation of thermal maturity of oil and gas source rocks. He compiled and edited AUSTRALIAN BLACK COAL (1975) which was the benchmark for both academia and industry for many years. Alan also served on numerous professional committees and editorial boards, including early work for the Australasian Institute of Mining and Metallurgy, the International Journal of Mathematical Geology, the International Journal of Coal Geology, the AAPG Bulletin and Australian Coal.

Alan flew the flag for Australian petrographers at ICCP and TSOP meetings, encouraging other Australian researchers to join and participate. He organized the only ICCP meeting to be held in Australia, at the University of Wollongong in 1990 and was President of ICCP from 1999 to 2007. He was one of the organizers of the ICCP Accreditation Sub-Committee and his command of mathematics ensured the rigor of the scheme.

Both before and after his resignation from the University of Wollongong, Alan regularly presented lectures, workshops and short courses for universities, industry and government organizations in Australia, Canada, China, India, Indonesia, Korea, South Africa, Thailand, UK, and USA. He co-presented the ICCP Course in Organic Petrography in Johannesburg in May 2011.

Alan spent the latter part of his life at the Keiraville residence with his wife Dian, listening to classical music or studying aircraft, his two other fascinations, or together on one of their many overseas journeys back to the UK or Indonesia. Alan passed away peacefully at home, 17th November, 2011.

{Memorial provided by Adrian Hutton, with additional information from Sue Fletcher and Greg Smith of The Australian Geologist.}

A Fish Story from Nova Scotia

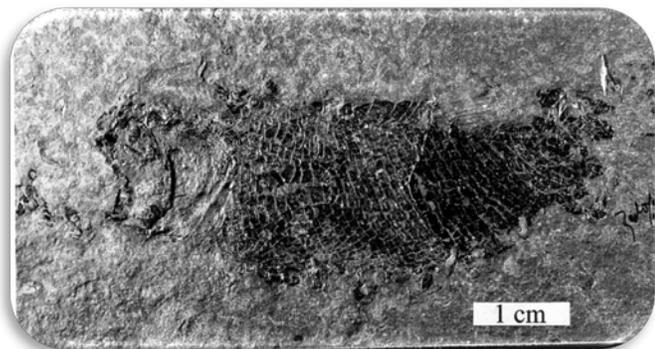


Figure 1

The late Professor J.W. Dawson, first Principal of McGill College, Montreal, had already recognized the rich fossil heritage of Sydney Coalfield, Nova Scotia (Acadian Geology, 1868) which included fishes large and small. The fish fossil shown (Figure 1) originated from a previously unknown locality in the former coal-mining town of Glace Bay, attesting to that rich heritage, particularly as the palaeoniscoid “herring” originated from what can be described as a fish graveyard. It contains huge amounts of dentate scales as shown, brain plates, teeth, thoracic bones, and shoulder girdles. The scales of the “herring” are phosphatic and composed of carbonate fluorapatite ($\text{Ca}_{10}(\text{PO}_4)_5\text{CO}_3\text{F}_{1.5}(\text{OH})\text{O}$).

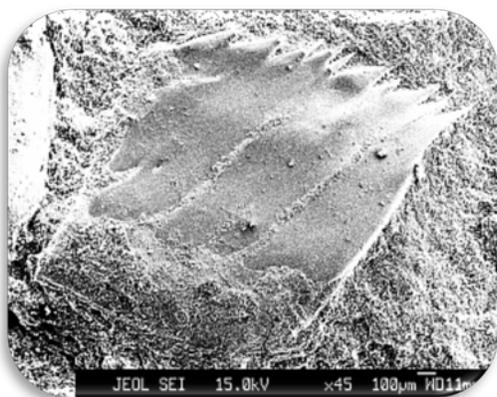


Figure 2

This find again raises the possibility of a more marine origin for parts of the Coalfield. Most significant, and a shot in the dark, is the possibility of DNA preservation in the scales that has been shown to be absorbed parallel to the c-crystallographic axis of the apatite by researchers in Japan. The problem is that the DNA-extraction protocol is outside the public domain. The

SEM image (Figure 2) is of a single scale.

Erwin L. Zodrow
 Emeritus professor
 Cape Breton University, Sydney
 Nova Scotia, Canada
 e-mail: Erwin_Zodrow@cbu.ca

34th

International Geological Congress Brisbane, Australia August 5-10, 2012

Some Themes relevant to TSOP Members

Theme 10: Coal – A Myriad of Resources

10.1 Finding Resources, making reserves:

This Symposium examines advances in our traditional thinking about what makes a coal resource, and more importantly a coal reserve, as new deposits come into the market to face the increasing demand for power and feedstocks.

10.2 Coal – a record of change

This Symposium will bring together researchers to examine coal as a record of climate change and tectonism throughout geological history.

10.3 Clean Coal – what is the global reality?

This Symposium examines what it would take to make “clean coal” a reality across the globe, and what would happen if we cannot as an industry.

Theme 12: Unconventional Hydrocarbons – Emerging Fuels

12.1 Coal Seam Gas

This Symposium seeks contributions on coal seam gas that address the following topics: 1) enhanced coal seam methane; 2) reservoir production engineering; 3) resource characterisation; 4) produced water utilisation, quality, etc; 5) fugitive methane; 6) risk of regional subsidence; 7) infrastructure optimisation, environmental impact and public engagement; 8) lessons learned from North America and 9) public engagement: can we do better?



CALENDAR OF EVENTS



Check www.tsop.org/cal.htm for more info!

2012

April:

22-25th, 2012: AAPG 2012 Annual Convention & Exhibition, Long Beach, California, USA.
www.aapg.org/longbeach2012/

June:

17-22nd, 2012: Carbon 2012, The Annual World Conference on Carbon, Krakow, Poland.
www.carbon2012.pl/
Abstract deadline: December 31st, 2011.

24-29th, 2012: 22nd Goldschmidt Conference, Montreal, Quebec, Canada. Session 9b: Geochemistry of petroleum, coal combustion and gasification products.
www.vmgoldschmidt.org/2012/abstracts.htm

July:

15-22nd, 2012: 9th International Symposium on Environmental Geochemistry, Aveiro, Portugal.
<http://9iseg.web.ua.pt/>

21-25th, 2012: 45th Annual Meeting of The Palynological Society, AASP. University of Lexington, Lexington, Kentucky. See flyer page 15. www.palynology.org

August:

5-10th, 2012: 34th International Geological Congress, Brisbane, Australia. www.34igc.org

September:

15-24th, 2012: ICCP and TSOP meetings, Beijing, China. www.iccp-tsop2012.org/
ICCP meeting 15-19th Sept. (registration starts 14th Sept); Yunnan field trip 20-22nd Sept; TSOP meeting 23-24th Sept. These three segments have separate registration fees so that participants may choose to go to one or both meetings and the field trip to suit their own professional and scientific requirements. TSOP registration fees are discounted before 15 July, 2012. Abstract deadline: 15 July 2012.

October:

15-18th, 2012: International Pittsburgh Coal Conference, Pittsburgh, Pennsylvania, USA.
www.engineering.pitt.edu/pcc/
Focus on environmental emissions issues and technologies surrounding the continued use of coal.

November:

4-7th, 2012: Geological Society of America Annual Meeting, Charlotte, North Carolina, USA: Geosciences: Investing in the Future.
www.geosociety.org/meetings/2012/

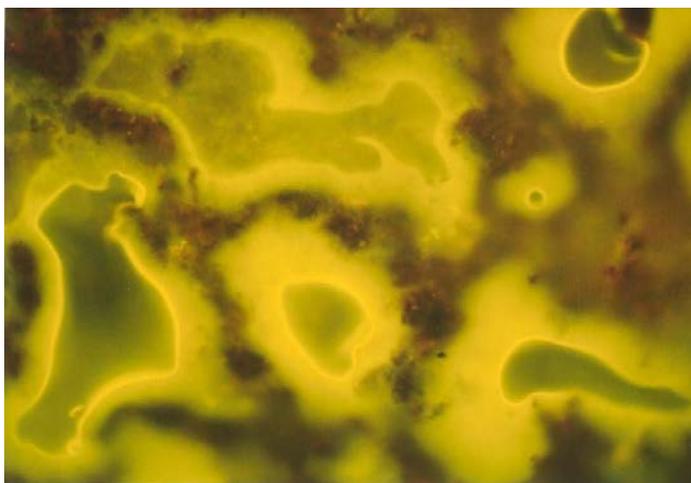


Megascopic to Microscopic: Ice and Oil Photo Montage by Wan Hasiah

umpetrogeo.wordpress.com/2011/07/25/megascopic-to-microscopic-comparisons-frozen-bubbles-and-oil-globules/



Variable size and shape of hydrocarbon-volatile mixtures in oil-prone coal of Sarawak, Malaysia under blue light (lower photo; field width = 0.2 mm) is similar in appearance to the bubbles trapped in the frozen lake of Alberta, Canada (left photo).



Expulsion of early generated 'oil-like' materials in the form of exudatinites-network brecciating the coal/carbargillite in right photo (UV light; field width – 0.2mm), compared with brecciated appearance of glacial lake ice (left photo).

