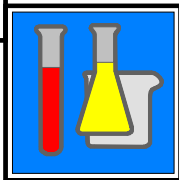


THE SOCIETY FOR ORGANIC PETROLOGY



NEWSLETTER

Vol. 21, No. 3

September, 2004

ISSN 0743-3816



Twenty-first Annual TSOP Meeting
September 26 – October 1, 2004

Sydney, Australia

Organic Matter
Down Under

2005 TSOP Meeting

September 11 - 14

Louisville, Kentucky, USA

Conference themes will include

- CO₂ sequestration
- coal utilization
- coalbed methane
- coal petrography
- organic geochemistry

The planned schedule includes:

Sunday, September 11

CO₂ Sequestration Workshop (morning)

Field Trip to the Falls of the Ohio (afternoon)

Monday, September 12

Technical Sessions

Reception at the Louisville Slugger Museum

Tuesday, September 13

Technical Sessions

Wednesday, September 14

Post-meeting field trip to an underground mine

Special student rates for the conference. 'Best Student Paper' award and prize.

Call for papers available soon on TSOP web site – Abstracts due by April 30, 2005

See article on page 9

Co-convenors Maria Mastalerz and Jim Hower

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 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. You will then be billed by Elsevier. Contact Peter Warwick <pwarwick@usgs.gov> if you do not receive a bill or have any other problems with a subscription. For **subscription at the member rate** to *AGI's Geotimes*, see your dues form.

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

The Society for Organic Petrology Newsletter

ISSN 0743-3816

published quarterly

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DEAD- December issue: December 1
LINES: March issue: March 1

Writers, Photographers and Associate Editors Needed!

The TSOP Newsletter welcomes contributions from members and non-members alike. Submission methods: Text is preferred in WordPerfect, MS Word, RTF or plain text format. Photos as slides or prints (will be returned after use) or as digital files (300 dpi preferred) without strong compression on CD-ROM or as e-mail attachments (if larger than 5 MB, please e-mail me first). Please do not embed images in word processor files. Zip disks are discouraged.

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Society Membership

The TSOP Newsletter (ISSN-0743-3816) is published quarterly by The Society for Organic Petrology and is available 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:

<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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Cover photo: View of the city from Sydney Harbour. The world-famous Sydney Opera House is on the right. Photo: Colin Ward.

Addenda: Cover photo and Sydney article photos in Vol. 21 No. 2, June 2004, also by Colin Ward.

TSOP Dues Form Enclosed please pay before Dec. 31

For those whose paid membership expires at the end of 2004, a personalized dues notice is enclosed with this issue. Please verify your contact information, enter the rate and years being paid (note that a discounted rate of US\$ 100 for 5 years is available) and return the payment to Mike Avery. Please pay before December 31.

Members may elect not to receive the printed copy of the Newsletter by marking the box on the dues form. Portable Document Format (PDF) newsletter versions will be available for downloading from the TSOP web site <http://www.tsop.org/news1.htm> at the same time the printed issue is mailed. Each issue is available in two pdf formats, a smaller file suitable for screen viewing and a larger file including graphics at 300 dpi to provide a better appearance when printed.

To elect no printed newsletter without using the form, simply notify the Editor < xid@psu.edu > at any time.

President's Letter

from Bob Finkelman

As my term as President of TSOP comes to an end once again I am obliged to sing the praises of our dedicated colleagues on the Council, the conscientious committee chairs, and the rank and file that have stepped up to make this society function. It is through their efforts that all the essential business is accomplished. We all owe them a debt of gratitude.

I am especially appreciative because my term in office was shortened by the opportunity that I was offered to spend three months in Africa as an Embassy Science Fellow for the U.S. Department of State. In Africa I not only represented my country but I also represented coal science and, where appropriate, TSOP. This however, was small compensation to our society. The preparations for this assignment, the three full months overseas, and the weeks playing catch-up upon my return to the U.S. certainly reduced my effectiveness for TSOP.

I mention this to emphasize the limited time available for elected officials of TSOP to accomplish something lasting. There is a long and steep learning curve for most of us, constant distractions from our salaried jobs and families, and only the mid-year meeting and the annual meeting where we get together for in-depth discussions of TSOP issues. Under these circumstances it is difficult indeed to implement substantive or long-term changes. For this reason I have recommended that TSOP adopt a two-year term for future Presidents and their Vice Presidents. The longer terms will allow these officials to formulate, propose, and implement strategies that will take TSOP into the 21st Century. After consultation with several members, Maria Mastalerz developed a proposal for two-year terms for our executives. The TSOP Council unanimously endorsed the concept. However, because this is such a significant change in the way TSOP will conduct its business we are asking the full membership to vote on this recommendation. You will soon be receiving a ballot and I urge you to vote in favor of this change. I feel strongly that the two-year term for TSOP executives will strengthen the organization and allow them to more effectively and efficiently discharge their responsibilities.

In closing I want to thank all of you for your confidence in me and for your support of TSOP. I have thoroughly enjoyed my tenure as President and hope that I have contributed to the well-being of our society. I leave very much impressed with the organization and the people who help to run it. I am especially pleased that in the near future TSOP will be in the excellent hands of Colin Ward, the incoming President and Peter Warwick, the President-elect. I look forward to working with them in the service of TSOP. H

TSOP to Co-sponsor Gussow Geoscience - Coalbed Methane Conference

TSOP has accepted an invitation to co-sponsor the 2005 Gussow Geoscience - Coalbed Methane Conference to be held at Canmore, near Calgary, Alberta, Canada, March 9 - 11, 2005. Primarily sponsored by the Canadian Society of Petroleum Geologists (CSPG), additional sponsorship will be provided by the Canadian Society for Coal Science and Organic Petrology (CSCOP), TSOP, and the Canadian Society for Unconventional Gas (CSUG).

See the advertisement in this issue on page 20 (back cover), and watch the TSOP web site for a link to the 2005 Gussow Conference web site, coming soon. Early registration for the meeting begins in December. H

Distinguished Service Award

President Bob Finkelman has arranged for TSOP to resume its Distinguished Service Award after several years of dormancy. A committee chaired by Alan Davis investigated records of service and made their recommendations to Council, which concurred that Brian Cardott, John Crelling, David Glick, and Ken Kuehn should receive the award. Presentation is planned for the Sydney meeting, for those attending. The recipients will serve on the committee for the next year. H

2003 TSOP meeting materials available on-line

Peter Warwick has announced that the 2003 TSOP Annual Meeting Abstracts, Program Guide, Short Course notes, field trip guide, and more (USGS OFR 2004-1283), are now on line at <http://pubs.usgs.gov/of/2004/1283/>

TSOP appreciates the many volunteers who have continued their work since the meeting to provide this improved availability. H

Council Changes

In the recent election, Peter Warwick, Joan Esterle, and Tim Pratt were elected and David Glick was reelected. The Society thanks Bill Huggett for his efforts as Chair of the Ballot Committee, and the other candidates for their willingness to serve. TSOP's 2004 - 2005 Council will be:

President	Colin Ward
President-Elect	Peter Warwick
Vice-President	Joan Esterle
Secretary-Treasurer	Mike Avery
Councilor ('03 - '05)	Zhongsheng Li
Councilor ('04 - '06)	Tim Pratt
Editor	David Glick

H

Mark Harvey Receives TSOP Student Grant

by Suzanne Russell
TSOP Research Committee

A total of six applications were received for the 2004 TSOP Graduate Student Research Grant. The applications were submitted by students attending universities in the U.S.A. and Canada.

The Research Committee is pleased to announce the successful applicant for the 2004 TSOP Student Research Grant, Mark Harvey, a Master's candidate at Indiana University, Bloomington. Mr. Harvey's research supervisor is Simon Brassell. This year's judges were TSOP members Art Cohen (University of South Carolina), Jeff Quick (Utah Geological Survey) and Carolyn Thompson-Rizer (Conoco Phillips, retired).

The Research Committee would like to thank this year's grant applicants and also the judges for their participation, which makes this TSOP activity a success.

The title of Mr. Harvey's thesis topic is "Characterization of Black Carbon at the Cretaceous/Tertiary Boundary". Mr. Harvey is a graduate of Auckland University with a BSc in Biology. He is a citizen of New Zealand. A summary of the research submitted by Mr. Harvey is included below.

Aciniform soot in K/T boundary sediments

Summary of investigation

Mark Harvey
Department of Geological Sciences
Indiana University

The soot contents of sediments provide evidence of the occurrence and prevalence of biomass or fossil carbon combustion in the sedimentary record. One critical form of soot here described as aciniform soot (AS), but otherwise known as carbon-black, micro-soot, spherical soot clusters, soot aggregates or soot agglomerates, is known to form only from condensation

of gaseous carbon species during burning. The abundance of AS in sediments has been previously determined by planimetric analysis, a visual technique that estimates soot mass from photographs obtained using the Scanning Electron Microscope (SEM). This method has revealed AS contents up to three orders of magnitude above background in Cretaceous-Tertiary (K-T) boundary sediments collected from New Zealand, Italy, Spain and Denmark, and attributed these anomalously high values to global scale wildfires. Such concentrations of soot offer the possibility of physically separating AS from other forms of graphitic black carbon (GBC) present in the sediment matrix. Physical separation of the AS carbon fraction is relevant for mass determination and further geochemical analysis because: (i) it is known to derive from combustion, (ii) it can be identified by SEM, and (iii) it is fine enough (< 1 μm) to be globally dispersed through the atmosphere. Previous studies of combustion derived carbon in sediments may have erroneously included non-combustion derived GBC in their analysis. The proposed research will employ two sequential stages in the isolation of AS from sediment: (i) wet chemical digestion (HF-HCl and an oxidant) to remove minerals and kerogen, thereby leaving only a residue containing AS, other forms of GBC, and some insoluble minerals, and (ii) density fractionation to separate the low density AS from sedimentary GBC, fusinite and insoluble minerals. Complete separation of AS can be verified by SEM, and enables direct measurement of aciniform soot mass for comparison with planimetric results. In addition, the isolation of AS provides a baseline soot fraction relevant at a time when standardization of methods for the isolation and quantification of soot in sediments is becoming recognized as a priority for researchers in this field. This approach offers an independent means of verifying previous estimations of AS content at the K-T boundary, and the potential to determine the elemental and isotopic compositions of isolated AS would aid evaluation of ancient and modern sedimentary records of biomass and fossil carbon combustion. Such evaluations are relevant to understanding the role of AS within the global carbon cycle, and its importance as a measure of environmental change.

H

The ICCP Page

This article, illustrating ICCP's ongoing progress in defining maceral terms, is reprinted from ICCP Newsletter No. 28, March 2003, available as a PDF file at <http://www.iccop.org/>

The Maceral Term "Sclerotinite" has been Officially Abandoned by the ICCP

Paul C. Lyons
206 Amber Road
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The recent literature (e.g. International Journal of Coal Geology, v. 50, p. 125; v. 51, p. 99, 100; v. 52, p. 36) shows that the maceral term "sclerotinite"-which was officially abandoned by the ICCP in 1996 (reaffirmed in 1997) - is being used by some

authors who perhaps are not aware that it is improper to use maceral terms that have been abandoned by the ICCP, the international organization responsible for maceral classification. Also, there are some authors who do not accept the new ICCP inertinite maceral group classification (e.g. Scott, 2001). This new classification has been published (ICCP, 2001), and, furthermore, is a part of the draft of the TSOP-ICCP Classification of Dispersed Organic Matter (Stasiuk et al., 2002). The fact that sclerotinite has been abandoned was the subject of a short paper by Lyons (2000), but for the sake of clarification of the history of this maceral a synopsis will be set forth here so that authors have a better understanding of why it was abandoned. Sclerotinite was introduced by Stach (1952) for fungal bodies such as sclerotia (hence the name sclerotinite) and other fungal bodies in coal and was formally accepted by the ICCP (see ICCP Handbook, 2nd ed., 1963). Most of what Stach was first referring to was fungal masses in Tertiary coals, but later Stach and Pickhardt (1957, 1964) also included with sclerotinite pseudocellular bodies found in upper Paleozoic coals. Some of the problem related to the misidentification of "sclerotia" for such bodies (e.g. see ICCP Glossary, 1963, sclerotinite, Fig. 1). Later it was realized that

there was a paleobotanical mix of cellular (i.e. fungal) and non-cellular (i.e. non-fungal) bodies, so Stach (1966, 1982) subdivided sclerotinite into two submacerals "fungi-sclerotinite" or "fungosclerotinite" and "resino-sclerotinite" or "secretion sclerotinite".

In connection with this story, the ICCP Handbook (1963) shows the term "resin rodlets" for bodies in upper Paleozoic coals. The fact that these bodies are rodlets is beyond doubt, but their resinous origin was not at all demonstrated by Kosanke and Harrison (1957). They showed chemical data that proved they were not resinous and only a suspected origin from resins could be hypothesized, at best. Lyons and others (1982) gave a detailed report on them, including chemical and paleobotanical data, which indicated they were highly aromatic bodies with H/C atomic ratios of about 0.4-0.5, unlike modern and fossil resins that have H/C atomic ratios of about 1.5. Van Bergen et al. (1995) called the chemistry of these rodlets "unusual resin chemistry", but in fact it is not resin chemistry at all. Scott (2001) speculated they are of char-resin origin, but they could be of humic-acid origin and not of resinous origin as also supposed by Van Bergen et al. (1995). It is difficult to understand how a substance that is highly aliphatic such as resins can be transformed into a highly

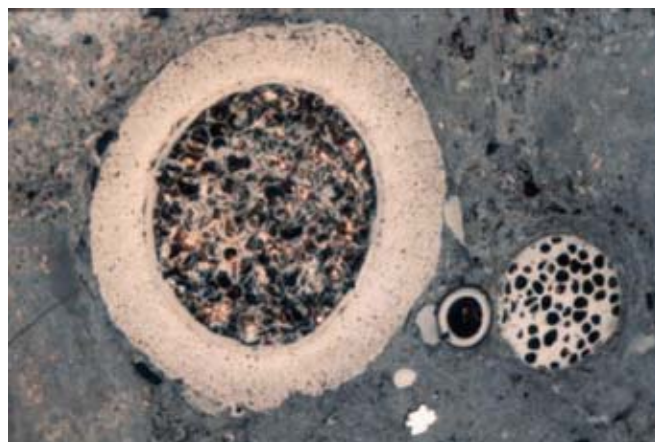


Figure 1 *Funginite, Balikpapan Group, Miocene, Kalimantan, Kitadin underground mine. Rv 0.46%. From left to right: mycorrhizome, fungal spore (teleutospore), and sclerotium. Width of field: 340 :m. Data and photograph courtesy of Alan Cook, Keiraville Konsultants, Keiraville, NSW, Australia*

aromatic substance such as the organic substance of the so-called "resin rodlets", which are inertinite bodies for the most part. Experiments such as those proposed by Scott (2001), without knowing what the starting substance is, are prone to meaningless results. Secretinite takes its name from secretory canals in which they occurred and not from the supposition they were originally secretions from plants such as resin and mucilage. In other words, these secretinite bodies are secondary products (Lyons and Mastalerz, 2001). The rodlets in longitudinal section from the Appalachian basin were cut across in polished section (Lyons et al., 1982) and found to be the same bodies that Stach (1982) called "secretion sclerotinite."

In Lyons and others (1982) there is undoubted evidence of the non-resinous nature of the North American "resin rodlets." Thus, they renamed them "rodlets of the inertinite maceral group" to indicate their non-resinous and aromatic nature and high reflectance. The paleobotanical origin of the rodlets was based on coal-ball studies. They found that the histological relationships between the bodies found in coal and those in coal-ball tissue from the seed-fern genus *Medullosa* in the Illinois Basin of Illinois are unmistakable.

Because it was believed that a paleobotanical mix of cellular (i.e. fungal) and non-cellular (i.e. non-fungal) was inappropriate within the same maceral, the maceral name "secretinite" was proposed by Lyons et al. (1986) for the non-fungal bodies. In 1996, Lyons proposed at the 48th ICCP Meeting that the maceral names secretinite and funginite (Benes, 1956) replace sclerotinite. The proposal was accepted and reaffirmed at the 49th ICCP Meeting in 1997. Thus, secretinite is a new maceral and funginite is a new name for sclerotinite as originally defined by Stach (1952). Sclerotinite was abandoned by the ICCP.

The two macerals are easy to distinguish and are virtually separated in geologic time. Funginite (Fig. 1) is a common maceral in Tertiary coals and is distinguished by its shape and cellularity, whereas secretinite (Fig. 2) is common in some upper Paleozoic coals, is rounded, non-cellular, and shows a variety of other features commonly including vesicles, a notch, kerfs (peculiar fractures), and sometimes an oxidized rim. Fungal masses in upper Paleozoic coals are rare or absent (Taylor and Cook, 1962), but have been mentioned by Stach (1982, p. 136, 138), supposedly documented by Stach and Pickhardt (1957, 1964), and also documented by Lyons (2000). Most of Stach and Pickhardt's (1957, 1964) fungal masses is secretinite.

It is hoped that this historical sketch will allow authors to better understand more about the origin of the macerals funginite and secretinite and will encourage them to use these maceral names in future papers. It will be the job of editors to see that these internationally accepted maceral names be used, and not sclerotinite--an abandoned maceral name.

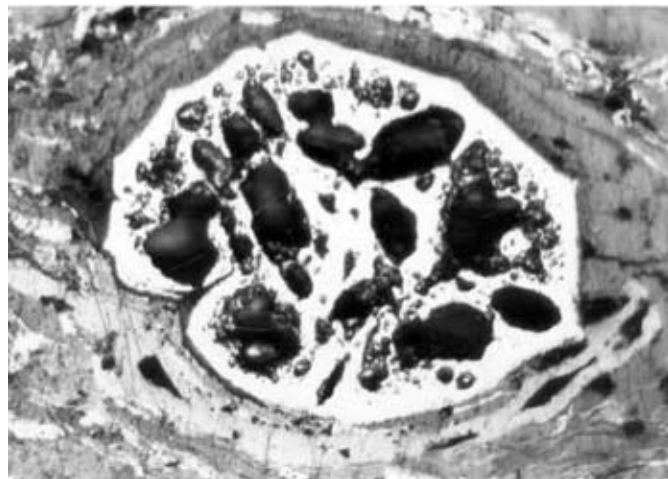


Figure 2 Secretinite, *St. Rose No. 5 coal bed, Upper Carboniferous (Langsettian, ex. Westphalian A), St. Rose Coalfield, Atlantic Maritime Canada. Note the vesicles, notch (lower left) and the generally rounded aspect. The reflectance is much higher than the surrounding vitrinite (top) and fusinite/semifusinite below. Rv 0.61%. The width of the field is approximately 200 μ m. Coal sample courtesy of P.A. Hacquebard, Geological Survey of Canada, Dartmouth, Nova Scotia, Canada*

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2005 AAPG Convention

AAPG will hold its 2005 Annual Convention June 19 - 22 in Calgary, during Alberta's centennial year. It will be hosted by the Canadian Society of Petroleum Geologists, and AAPG's Canada Region. See <http://www.aapg.org/calgary/> and:

CALL FOR ABSTRACTS Integrated Analysis of Petroleum Systems in 4-D Session O11/P11 of the 2005 AAPG Annual Convention June 19-22, 2005 Calgary, Alberta, Canada

We are seeking oral and poster presentation abstracts describing petroleum systems studies which highlight the capabilities of 4-D modeling in our understanding of sedimentary basins.

Session Chairmen

Joe Curiale (Unocal Corporation, Sugar Land, Texas)
Art Stirrett (Northrock Resources, Calgary, Alberta)

Abstract Deadline is November 12 2004

Abstract Submission is online at
<http://www.aapg.org/calgary/index.cfm> H

5th EMEC - last chance for abstracts

from the EMEC5 Committee

The 5th European Meeting on Environmental Chemistry (5th EMEC), which will be held from 15th to 18th of December in Bari, Italy. The conference will address current scientific research, including:

- Sustainable development
- Life cycle assessment
- Risk assessment
- Green chemistry
- Soil contamination, depollution technologies
- Ecotoxicology
- Water treatment, reuse
- Biodegradation of toxic compounds
- Industrial clean technologies
- Waste valorization
- Atmospheric chemistry, Air pollution, Modeling of pollutants diffusion
- Marine chemistry and Marine pollution
- Analytical methods for Environmental Science
- High Energy Milling

For full details, see <http://www.emec5.uniba.it>

Although the deadline for submission of contribution is expired, all abstracts received before the end of September will be fully considered for both oral and poster presentation. H

**See the web site of the
International Committee for
Coal and Organic Petrology at**

<http://www.iccop.org>

Plan now to attend the 2005 TSOP Meeting in Louisville, Kentucky

The 2005 TSOP meeting will be held on September 11 - 14 in Louisville, Kentucky. Conference themes will include

CO₂ sequestration,
coal utilization,
coalbed methane,
coal petrography, and
organic geochemistry.

A symposium on dispersed organics is being planned by Tom Algeo and Sue Rimmer.

The planned schedule includes:

Sunday, September 11

CO₂ Sequestration Workshop (morning)
Field Trip to the Falls of the Ohio (afternoon)

Monday, September 12

Technical Sessions
Reception at the Louisville Slugger Museum

Tuesday, September 13

Technical Sessions

Wednesday, September 14

Post-meeting field trip to an underground mine

Special student rates for the conference are being arranged, and there will be a 'Best Student Paper' award and prize.

Call for Papers:

Abstracts should be submitted by April 30, 2005. Watch the TSOP web site for details, coming soon. Authors will also be invited to submit their papers for a special issue of The International Journal of Coal Geology.

Venue:

Louisville is a unique blend of old and new, a sophisticated city with southern charm and unparalleled hospitality. From the beauty of the

mighty Ohio River to the excitement of the Churchill Downs, Louisville offers attractions and recreation for visitors of every age.

The core of the meeting will be on Monday and Tuesday, the 12th and 13th, at the Brown Hotel. This award-winning hotel has been at the center of the city's social life since it opened in 1923. The relaxed J. Grahams Cafe is ideal for traditional regional dishes, and the Grand Lounge is a stylish rendezvous for light meals and cocktails. The hotel offers a complimentary 24-hour fitness center. There is also a nearby facility with indoor swimming pool, basketball and racquetball courts and exercise equipment. Impressive golf courses and the famous Churchill Downs are convenient to the hotel.

See the TSOP web site <http://www.tsop.org/> for details as they become available, or contact the hosts:

Jim Hower, e-mail: hower@caer.uky.edu
and

Maria Mastalerz, e-mail: mmastale@indiana.edu H



The Louisville Slugger Museum
photo by Kathie Sauer



View across Sydney Harbour from Taronga Park Zoo (visit included in the TSOP Partners' Program), with the city in the background. The main city area is on the left, the Sydney Opera House in the centre and the Sydney Harbour Bridge on the right. Photo: Colin Ward

Twenty-first Annual TSOP Meeting, Sydney, Australia

Organic Matter Down Under

September 26 – October 1, 2004

by Colin Ward, on behalf of the Organising Committee

The 21st Annual Meeting of the Society, to be held in Sydney, Australia, is shaping up as a meeting not to be missed. Sydney is well known for its spectacular scenery, world-famous buildings and relaxed, friendly lifestyle, and with its surrounding geology provides an ideal venue for an international organic petrology conference. Further enhancing the Sydney experience, the technical sessions and social events for the meeting will be held at the Crowne Plaza Hotel, located directly opposite one of Sydney's main surfing beaches and only a short distance from Sydney Airport and the attractions around the city centre.

Technical Program

A total of more than 90 papers will be presented during the three days devoted to technical sessions (see program elsewhere in this Newsletter), by authors from more than 15 different countries. Special sessions within the program are devoted to coal seam gas (methane and CO₂ sequestration), petroleum source rocks, organic geochemistry, new techniques and applications, and coal characterisation and resources for sustainable development, as well as a wide range of papers on other organic petrology topics.

The plenary sessions will include papers by Romeo Flores, US Geological Survey (coal-seam gas), Andrew Scott, Royal Holloway, University of London (organic petrology), and Bob Davis, Woodside Energy Limited (petroleum source rocks), and Frank van Schagen, Chief Executive Officer of the Co-operative Research Centre for Coal in Sustainable Development. By arrangement with the Coalfield Geology Council of New South Wales, Claus Diessel will present the 5th Kenneth Mosher Memorial Lecture at the meeting, with a discussion on the role of coal petrology in on-shore sequence stratigraphy. Alan Cook, as President of ICCP, will also address the meeting, as part of newly established reciprocal arrangements between the two groups.

Pre- and Post-Meeting Field Trips

The field trips to different parts of the Sydney Basin before and after the meeting have both proven to be popular. The pre-meeting field trip, led by Adrian Hutton, will visit the oil shale (torbanite) deposit at Joadja, in the south-western Sydney Basin, including exposures of the torbanite seams as well as the historic village, mining and processing sites from which the deposits were worked during the 19th Century.

The post-meeting field trip, led by Claus Diessel, will visit a series of well-exposed coastal outcrops showing different types of coal-bearing sedimentary successions, including fluvio-deltaic, alluvial fan and volcanic-influenced deposits, in the Newcastle area, in the northern part of the Sydney Basin.

Short Course - Mineral Matter in Coal

The short course for the meeting, led by Colin Ward and David French, will cover the nature and origin of minerals and other inorganic constituents in coal, and the range of techniques that can be used in evaluating the abundance and constitution of this mineral matter. It will also discuss experience with using different techniques, and the application of mineral matter studies to particular aspects of coal evaluation, utilisation and environmental management.

Student Travel Assistance and Prizes

Thanks to a generous donation from The Pennsylvania State University and an allocation from TSOP Council, financial assistance has been provided to help six full-time students from around the world cover the costs of travelling to Sydney. A number of other students are also attending, and to provide further encouragement the Organising Committee will be awarding two prizes, one for the best oral and one for the best poster presentation given by a student at the meeting.

Partners' Program

The Partners' Program has also proven to be popular, providing family members accompanying registrants with an introduction to some of Sydney's attractions. The program for Tuesday, September 28 includes a ferry trip across the harbour to visit

Sydney's world-famous zoo. On Wednesday, September 29, the group will visit the historic harbour-side area known as "The Rocks", with its beautiful old buildings, souvenir shops, magnificent old church and picturesque pubs, followed by a tour of the Sydney Opera House and a return in time for the conference dinner in the evening.

Further Information

Further information on the Sydney meeting is available from the TSOP web site (<http://www.tsop.org>), from the meeting secretariat (Rhonda.Norton@ccsd.biz), or from the co-convenors, Neil Sherwood (Neil.Sherwood@csiro.au) and Colin Ward (C.Ward@unsw.edu.au). We hope as many TSOP members as possible will join us for a meeting that will add an extra international flavour to a wide range of TSOP activities. Needless to say, with people registered from North and South America, Europe, Africa and Asia, as well as Australia and New Zealand, competition for the traditional "furthest travelled" award will be hot this year.



Above: Some members of the Organising Committee during visit of TSOP Pres. Maria Mastalerz, October, 2002. Back Row: Adrian Hutton, Colin Ward, Herbert Volk, Front Row: Neil Sherwood, Maria Mastalerz, Claus Diessel (photo - Harold Read).



Left: The Committee in 2004. Back row: Herbert Volk, Joan Esterle, Lila Gurba, Claus Diessel, Zhongsheng Li, Harold Read; front row: Tim Moore, Colin Ward, Neil Sherwood; absent: Adrian Hutton.

OVERVIEW OF MAIN TECHNICAL PROGRAM

Tuesday September 28 th		Wednesday September 29 th		Thursday September 30 th	
Time	Oceanic East Room	Time	Oceanic East Room	Time	Oceanic East Room
9:00-9:15	Welcome	9:00-9:25	Plenary 3 (Scott)	9:00-9:25	New Techniques 1
9:15-9:40	Plenary 1 (Davis)	9:25-10:10	Mosher Lecture (Djessell)	9:25-9:50	New Techniques 2
9:40-10:05	Plenary 2 (Flores)	10:10-10:40	Plenary 4 (van Schagen)	9:50-10:15	New Techniques 3
10:05-10:30	ICPF President (Cook)	10:40-11:05	Coffee Break + Posters	10:15-10:40	New Techniques 4
10:30-10:55	Coffee Break + Posters			10:40-11:05	Coffee Break + Posters
	Oceanic East Room		Oceanic East Room		Oceanic East Room
10:55-11:20	Seam Gas ^a 1	11:05-11:30	Coal ^b 1	11:05-11:30	New Techniques 5
11:20-11:45	Seam Gas 2	11:30-11:55	Coal 2	11:30-11:55	New Techniques 6
11:45-12:10	Seam Gas 3	11:55-12:20	Coal 3	11:55-12:20	New Techniques 7
12:10-12:35	Seam Gas 4	12:20-12:45	Coal 4	12:20-12:45	New Techniques 8
12:35-2:05	TSOP Business Lunch	12:45-1:45	Lunch	12:45-2:00	Awards and Lunch
2:05-2:15	Group Photograph	1:45-2:10	Coal 5	2:15	Field trip departure
2:15-2:40	Seam Gas 5	2:10-2:35	Coal 6		
2:40-3:05	Seam Gas 6	2:35-3:00	Coal 7		
3:05-3:30	Seam Gas 7	3:00-3:25	Coal 8		
3:30-3:55	Coffee Break + Posters	3:25-3:50	Coffee Break + Posters		
3:55-4:20	Seam Gas 8	3:50-4:15	Coal 9		
4:20-4:45	Seam Gas 9	4:15-4:40	Coal 10		
4:45-5:10	Seam Gas 10	4:40-5:05	Coal 11		
5:10-5:35	Seam Gas 11	5:05-5:30	Coal 12		
		7:30-10:30 Symposium Dinner			

a) Seam Gas = Coal Seam Gas and CO₂; Sequestration

b) Coal = Coal Characterisation and Resources for Sustainable Development

PARTNERS' PROGRAM

9:15-5:00	- Sydney Harbour and Taronga Park Zoo	9:15-4:30	- Sydney Opera House and The Rocks

The Society for Organic Petrology
21ST ANNUAL MEETING, SYDNEY, AUSTRALIA

PROVISIONAL PROGRAM

CROWNE PLAZA HOTEL, COOGEE BEACH

MEETING OVERVIEW

- Sunday, Sept. 26 – Field trip, Joadja torbanite deposits
- Monday, Sept. 27 – Short course, registration, icebreaker
- Tuesday, Sept. 28 – Technical sessions, TSOP business lunch
- Wednesday, Sept. 29 – Technical sessions, conference dinner
- Thursday, Sept. 30 – Technical sessions, field trip departure
- Friday, October 1 – Field trip, Newcastle Coal Measures

MAIN CONFERENCE THEMES

- Coal Seam Gas – Methane and CO₂ Sequestration
- Coal Characterisation and Resources for Sustainable Development
- Geology of Petroleum Source Rocks
- Advances in Organic Petrology and Geochemistry
- New Techniques and Applications (in conjunction with ICCP)

Sunday, September 26th

Pre-meeting Field Trip: Joadja Torbanite Deposits
Leader: Adrian Hutton

9:00 – 6:00: Departing from and returning to Crowne Plaza Hotel, Coogee.

Monday, September 27th

Short Course, Registration and Icebreaker Reception

9:00 – 5:00: Short Course: Analysis and Significance of Mineral Matter in Coal (*Leaders: Colin Ward and David French*). Pick up and return to Crowne Plaza Hotel, Coogee. Course presentation at the University of New South Wales (Room 140, Biological Science Building)

3:00 – 6:00: Meeting registration, Crowne Plaza Foyer

6:00 – 8:00: Icebreaker Reception, Terrace View Room

8:00 – 12:00: Outgoing TSOP Council Meeting, Board Room

Tuesday, September 28th

Session 1: Oceanic East Room

Plenary Session – Chair, Bob Finkelman

9:00 – 9:15: Welcome and introduction to the meeting

9:15 – 9:40: Bob Davis (Woodside Energy): *From Chemistry to Kinetics: how well do we understand expulsion from coals? An industry perspective on modelling Type III source rocks*

9:40 – 10:05: Romeo M. Flores and Gary D. Stricker (US Geological Survey): *Potential CO₂ Sequestration and Enhanced Recovery of Coalbed Methane in Sub-bituminous Coals in the Powder River Basin, United States*

10:05 – 10:30: Alan C. Cook (President, International Committee for Coal and Organic Petrology): *The ICCP: What Does it Do?*

10:30 – 10:55: Coffee Break and Posters

Session 2A: Oceanic East Room

Coal Seam Gas and CO₂ Sequestration – Chair, Dave Mathew

10:55 – 11:20: Andreas Busch, Yves Gensterblum, and Bernhard Krooss: *CO₂ and CH₄ Sorption Kinetics on Coal: Experiments and Potential Application in CBM/ECBM Modelling*

11:20 – 11:45: Bernhard Krooss, Andreas Busch and Yves Gensterblum: *Investigation of Preferential Sorption Behaviour of CO₂ and CH₄ on Coals by High-pressure Adsorption/Desorption Experiments with Gas Mixtures*

11:45 – 12:10: A. Saghafi and M. Faiz: *CO₂ Storage Properties of Sydney Basin Coal*

12:10 – 12:35: Peter D. Warwick: *Bacterial Reduction of CO₂: The Primary Origin of Low-rank Coal Gas in the Northern Gulf of Mexico Coastal Plain, USA*

Session 2B: Coogee Room

Petroleum Source Rocks – Chair, Charles Barker

10:55 – 11:20: Bob Davis, Steve Noon and John Harrington: *Influence of Depositional Environment on the Petroleum Potential of Tertiary Indonesian Coals*

11:20 – 11:45: Wan Hasiah Abdullah: *Oil-prone Mangrove-derived Coaly Constituents of NW Borneo*

11:45 – 12:10: Astrid Blandón, Georges Gorin, Fredy Arango and Alejandro Restrepo: *Potential for Hydrocarbon Generation in Sub-bituminous Coals of the Tertiary Amaga Formation in Central Colombia: a Multidisciplinary Study Based on Coal Petrography, Palynofacies and Rock-Eval Pyrolysis*

12:10 – 12:35: Zhong Ningning and Bao Jianping: *Geochemical Characteristics of Terrestrially Sourced Oil from Jurassic Coal-bearing Strata in the Santanghu Basin, Northwest China*

12:35 – 2:05: TSOP Business Lunch – Terrace View Room

2:05 – 2:15: Group Photograph – Location to be advised

Session 3A: Oceanic East Room

Coal Seam Gas and CO₂ Sequestration – Chair, Romeo Flores

2:15 – 2:40: Dave Mathew: *Developing a Coal Seam Gas Project from Reservoir Face to Customer Plant—understanding the critical issues*

2:40 – 3:05: Chris Boreham, John Draper and Janet Hope: *Origin of Jurassic Coal Seam Gas, SE Queensland*

3:05 – 3:30: Lila W. Gurba; Andrew Gurba; Jeff Wood and Colin Ward: *Gas Drainability and Outburst Risk Assessment Based on the Distribution of Micro-markers in Coal Seams*

3:30 – 3:55: Coffee Break and Posters

Session 3B: Coogee Room

Petroleum Source Rocks – Chair, Bob Davis

2:15 – 2:40: R. Sykes, L.R. Snowdon, P.E. Johansen, S.D. Killops, C. Chagué-Goff, K.M. Bartram and A. Markwitz: *Effects of Marine Influence on the Petroleum Generation Characteristics of Humic Coals: Eocene Mangahewa Formation, Taranaki Basin*

2:40 – 3:05: Henrik I Petersen: *The Effective Oil Window of Coals: variations related to composition and coal age*

3:05 – 3:30: Gareth Chalmers and R. Marc Bustin: *Organic Matter Distribution in Lower Cretaceous Shales of Northeastern British Columbia, Canada*

3:30 – 3:55: Coffee Break and Posters

Session 4A: Oceanic East Room

Coal Seam Gas and CO₂ Sequestration – Chair, Romeo Flores

3:55 – 4:20: M. Faiz, N. Sherwood, N Russell, A. Saghafi and I. Wang: *How do Petrology and Burial History Affect Coal Seam Gas Reservoir Properties? An example from the Sydney Basin, Australia*

4:20 – 4:45: S.J. Pope, K.D. Gordon, J.G. Pope, S. Hayton and D.A. Manhire: *Coal Seam Gas Exploration In New Zealand Lignites*

4:45 – 5:10: Steven Scott, Bruce Anderson, Peter Crosdale, Julie Dingwall and Garry Leblang : *Coal Petrology and Coal Seam Gas Contents of the Walloon Subgroup – Surat Basin Queensland*

5:10 – 5:35: Xingjin Wang: *The Effects of Coal Rank on the Variation in Permeability of Coal Seam Reservoirs during CBM Production*

Session 4B: Coogee Room

Petroleum Source Rocks – Chair, Bob Davis

3:55 – 4:20: Prasanta K. (Muki) Mukhopadhyay, Paul J. Harvey and D. Jack Macdonald: *Petroleum Systems of the Carboniferous Sediments of Onshore Nova Scotia and Feasibility of CO₂ Sequestration*

4:20 – 4:45: C.E. Barker, M.J. Pawlewicz, M. D. Lewan, C. L. Carlson and Ank Webbers: *Update on the Influence of Extractable Organic Matter on Vitrinite Reflectance: Implications to Liquid Hydrocarbon or Bitumen Impregnation as a Suppression Mechanism*

4:45 – 5:10: Jinxing Dai, Guangyou Zhu, Shengfei Qin and Yunpeng Wang: *The distribution of coal-measure-related gas fields in China*

5:10 – 5:35: Shengfei Qin and Jinxing Dai: *The Formation and Occurrence of Oil and Gas from Coal and its Controlling Factors in the Kuiche Depression of the Tarim Basin*

8:00 – 11:00: Incoming TSOP Council Meeting, Board Room

Wednesday, September 29th

Session 5: Oceanic East Room

Plenary Session – *Chair, Colin Ward*

9:00 – 9:25: Andrew Scott (Royal Holloway, University of London): *Observations and Experiments on the Origin and Formation of Inertinite Group Macerals*

9:25 – 10:10: Claus F.K. Diessel (University of Newcastle): *Coal Petrology in Sequence Stratigraphy (Kenneth Mosher Memorial Lecture)*

10:10 - 10:40: Frank van Schagen and Lila W. Gurba: *The Role of Coal in a Sustainable Energy Future –challenges, opportunities and prospects (Introduction to Coal in Sustainable Development Symposium)*

10:40 – 11:05: Coffee Break and Posters

Session 6A: Oceanic East Room

Coal Characterisation and Resources for Sustainable Development – Chair, Lila Gurba

11:05 – 11:30: Andy Rigg: *CO₂ Storage Potential in Australia*

11:30 – 11:55: P.J. Crosdale and L.W. Gurba: *World Activities, R&D and Uncertainties in Relation to CO₂ Sequestration into Unmineable Coal Seams*

11:55 – 12:20: Binbin Wang, Robert B. Finkelman, Harvey E. Belkin and Curtis A. Palmer: *A Possible Health Benefit of Coal Combustion*

12:20 – 12:45: Peter F. Nelson: *Trace Element Release and Reactions from Australian Coals under Combustion Conditions*

Session 6B: Coogee Room

Organic Geochemistry – Chair, Chris Boreham

11:05 – 11:30: S.C. George and J.W. Smith: *Variability of Molecular Source and Thermal Maturity Indicators in a Marine-influenced Coal Seam: the Greta Seam, Sydney Basin*

11:30 – 11:55: Rushdy S. Othman: *Geochemical Indicators of Petroleum Potential in the Bowen-Gunnedah-Surat Basins of northern New South Wales*

11:55 – 12:20: Herbert Volk, Simon George, Manzur Ahmed and Richard Sykes: *Variation of Molecular Maturity Parameters in Iso-rank, Marine-influenced Coals: a systematic study on extracts of Eocene Taranaki coals*

12:20 – 12:45: Li Jian, Luo Xia, Dai Jinxing, Li Zhisheng, Ma Chenghua and Liuzhaolu: *Characteristics of carbon isotope compositions of gasoline compounds and natural gases and a correlation of gases with their source rocks in large- to medium-sized gas fields of China*

12:45 – 1:45: Lunch – Promenade Restaurant

Session 7A: Oceanic East Room

Coal Characterisation and Resources for Sustainable Development – Chair, Lila Gurba

1:45 – 2:10: James C. Hower, Maria Mastalerz, Agnieszka Drobniak, and Cortland Eble: *The Environmental Impact of Trace Element Contents of Western Kentucky and Indiana Coals*

2:10 – 2:35: Harvey E. Belkin, Robert B. Finkelman, Qichao Wang, Binbin Wang, and Baoshan Zheng: *Mercury in China Coals*

2:35 – 3:00: Krishna K. Sappal: *Organic Petrology and Trace Elements Distribution of Selected Permian Coal of India*

3:00 – 3:25: David French, Alan R Butcher, Al Cropp, and Paul Gottlieb, Terry Wall and Raj Gupta: *QEMSCAN - A New Tool for the Characterisation of Coal and Mineral Matter*

3:25 – 3:50: Coffee Break and Posters

Session 7B: Coogee Room

Organic Geochemistry – Chair, Herbert Volk

1:45 – 2:10: Chris Boreham and Avon McIntyre: *Carbon-isotope stratigraphy of Late Jurassic to Cretaceous Kerogens in the Otway Basin, Southern Australia*

2:10 – 2:35: Craig P. Marshall, Abigail C. Allwood, Malcolm R. Walter, Martin J. Van Kranendonk and Roger E. Summons: *Spectroscopic and Microscopic Characterization of Carbonaceous Material in Archaean Cherts, Pilbara Craton, Western Australia*

2:35 – 3:00: P.K. (Muki) Mukhopadhyay, D.J. Mossman and D. Jarvie: *Petrology and Geochemistry of Carbonaceous Chondrites (Meteorites) and Archaean Terrestrial Rocks (>2.0 Ga): Implications for Hydrocarbon Prospects in Mars?*

3:00 – 3:25: Nobuyori Takeda, Hideki Nishita, Yasushi Hamada, Larry Carbonel, Evelyn E. Cortez, Leticia S. Pangilinan and Filomena B. del Rosario: *Sampling and analysis of oil slicks from the sea surface - An example from the Visayan Basin, Republic of the Philippines*

3:25 – 3:50: Coffee Break and Posters

Session 8A: Oceanic East Room

Coal Characterisation and Resources for Sustainable Development – Chair, Jim Hower

3:50 – 4:15: Alv Orheim, Gerd Bieg, Trond Brekke, Jørgen Stenvold: *Composition and Characterisation of Tertiary Coals in Spitsbergen, Norway - Improving the exploration play models*

4:15 – 4:40: G.R. Holdgate, I. Cartwright, M.W. Wallace and S.J. Gallagher: *Yallourn Coal Seam – the Last Coal in Australia*

4:40 – 5:05: K.L. Pinetown and C.R. Ward: *Quantitative Evaluation of Minerals in Coal Deposits in the Witbank and Highveld Coalfields and the Potential Impact on Acid Mine Drainage*

5:05 – 5:30: Fenghua Zhao and Zhiyuan Cong: *The Geochemistry of Rare Earth Elements in Acid Mine Drainage from the Sitai Coalmine, Shanxi Province, North China*

Session 8B: Coogee Room

Organic Geochemistry – Chair, Simon George

3:50 – 4:15: Walter Pickel, Simon George, Herbert Volk, and Manzur Ahmed: *Organic Petrology and Geochemistry of Solid Bitumens in the Eastern Papuan Basin*

4:15 – 4:40: Shengfei Qin, Yan Song, Xiuyi Tang and Guoyou Fu: *The ¹²C Accumulative Effect and Mechanism in Coalbed Methane*

4:40 – 5:05: Luo Xia, Li Jian, Dai Jinxing, Hu Guoyi, Lui Zhaolu and Ma Chenghua: *Application of C5 - C8 Parameters to Identify the Source and Migration Direction of Natural Gas in the Ordos Basin*

5:05 – 5:30: D.Boushnev, N.Burdelnaya, O.Valiaeva and V.Saveliev: *Benzene-flow pyrolysis of sulphur-rich kerogen from an Upper Jurassic oil-shale from the Russian Platform*

7:30 – 10:30: Conference Dinner, Oceanic East Room

Thursday, September 30th

Session 9A: Oceanic East Room

New Techniques and Applications (in conjunction with ICCP) - Chair, Aivars Depers

- 9:00 – 9:25: J. W. Smith and J. R. Smith: *A Geochemical/Mathematical Approach to Vitrinite Reflectance*
- 9:25 – 9:50: Colin R. Ward and Zhongsheng Li: *Comparison of Elemental Composition of Macerals in Some Australian Coals Determined by Electron Microprobe to Equivalent Whole-coal Ultimate Analysis Data*
- 9:50 – 10:15: Grzegorz Lis, Maria Mastalerz, Arndt Schimmelmann, and Artur B. Stankiewicz: *FTIR Parameters as Maturity Proxies in Kerogen Type II*
- 10:15 – 10:40: Zhongsheng Li, Peter Fredericks, Llew Rintoul and Colin Ward: *Application of Attenuated Total Reflectance Micro-Fourier Transform Infrared (ATR-FTIR) Analysis to the Study of Coal Macerals and Coal Maturation Processes*

10:40 – 11:05: Coffee Break and Posters

Session 9B: Coogee Room

Coal and Organic Petrology – Chair, Joan Esterle

- 9:00 – 9:25: Alv Orheim, Trond Brekke, Gerd Bieg, Venche Horseide, Jørgen Stenvold: *Geochemical Affinities Applied in Coal Exploration and Exploitation: case study from Spitsbergen, Norway*
- 9:25 – 9:50: Kuili Jin and Luwu Yan: *Source Rock Classification and the Basic Structure of Coal and Kerogen*
- 9:50 – 10:15: Richard Sakurovs, Elizabeth Gawronski and Lindsay Burke: *Influence of Coking Conditions on the Determination of the Amount of Reactive Inertinite in Coals*
- 10:15 – 10:40: Mariusz Minkina, Sawomira Pusz, Leokadia Róg and Richard Sakurovs: *Maceral Composition of Coal and Coke Reactivity and Strength*

10:40 – 11:05 – Coffee Break and Posters

Session 10A: Oceanic East Room

New Techniques and Applications (in conjunction with ICCP) - Chair, Aivars Depers

- 11:05 – 11:30: G. O'Brien, B. Jenkins and H. Beath: *Coal Grain Characterisation of Flotation Feed*
- 11:30 – 11:55: Fredy Arango A, Alejandro Restrepo, and Astrid Blandón: *Application of Image Analysis in the Palynofacies of Coal and Associated Shales*
- 11:55 – 12:20: Tang Yuegang, Ren Deyi, Liao Libing and Zhao Fenghua: *Surface Characteristics of Different Coal Pyrites and their Components*
- 12:20 – 12:45: Zhongsheng Li, Colin R. Ward and Lila W. Gurba: *Occurrence of Calcium and Aluminium in the Macerals of Lignite from the Leigh Creek Coalfield (Telford Basin), South Australia*

Session 10B: Coogee Room

Coal and Organic Petrology – Chair, Joan Esterle

- 11:05 – 11:30: Raphael Wüst: *Artificial Coalification of Low-ash – Mineral-free Peat Material and Implications for Mineral Compositions of Coals*
- 11:30 – 11:55: Rita Susilawati and Colin R. Ward: *Metamorphism of Mineral Matter in Coal from the Bukit Asam Deposit, South Sumatra, Indonesia*
- 11:55 – 12:20: Alexandra N. Golab and Adrian C. Hutton: *Petrography, Mineralogy and Geochemistry of Thermally Altered Coal in Permian Coal Measures, Hunter Valley, Australia*
- 12:20 – 12:45: Jinxing Dai, Weiwei Ding, Jian Li, and Guangyou Zhu: *Gas pores in Permo-Carboniferous Coal of the Dongpu Depression and its Implication to the Hydrocarbon Generation and Accumulation, Bohai Bay Basin, China*
- 12:45 – 1:00: Presentation of Awards and Closing Formalities – Oceanic East Room

1:00 – 2:00: Lunch – Promenade Restaurant

2:15: Newcastle Field Trip Departure – Hotel Foyer. Field trip participants travel to Newcastle with intermediate stop and overnight stay at Noah's on the Beach Hotel

Friday, October 1

Post-meeting Field Trip: Newcastle Coal Measures

Leaders: *Claus Diessel and Adrian Hutton*

9:00 – 6:00: Departing from Noah's on the Beach and returning to Crowne Plaza Hotel

POSTER PRESENTATIONS

Coal Seam Gas

T.A. Moore, G.R. Gillard, R. Boyd, R.M. Flores, G.D. Stricker and C.M. Galceran: *A Mighty Wind: determining the methane content of New Zealand coal seams*

Coal Characterisation and Resources for Sustainable Development

Joseph Donovan, Bruce Leavitt, Paul Ziemkiewicz, Tamara Vandivort, and Eberhard Werner: *Flooding of Abandoned Underground Pittsburgh Seam Coal Mines*

Georgeta Predeanu: *Life Environment Project: Activated Charcoals from Xylite – a Sustainable Clean Coal Technology for Romania*

Organic Petrology and New Techniques

Y.Ujii: *Relationship between Statistical Thermal Alteration Index (STTAI) and Vitrinite Reflectance (Ro) Influenced by Various Geological Phenomena: Diagenesis, Unconformity, Faulting and Contact Metamorphism*

Nick Moore: *Vitrinite – Inertinite Reflectance and Fluorescence of Coals*

John C. Crelling and Peter Filip: *The Organic Petrology of Carbon-Carbon Aircraft Brakes*

Ken B. Anderson, John C. Crelling and Fabien Kenig: *An Unusual Low-Fluorescence Algal Kerogen from the Canadian High Arctic*

H. Sanei, F. Goodarzi, and L.D. Stasiuk: *The Step-by-step Organic Petrology of Recent Lake Sediments during the Sequential Pyrolysis Process*

Alison Burke and Joan Esterle: *Palaeobotanical Investigation of Coal Band Cyclicality in the Permian-age Goonyella Middle Seam, Bowen Basin, Australia*

Cornelia Panaitescu and Maria Paraschiv: *Vitreous Carbon Microstructural and Textural Evolution during the Pyrogenation Process*

Organic Geochemistry and Source Rock Studies

Henrik I. Petersen, Lars H. Nielsen, Claus Andersen, Anders Mathiesen, Hans P. Nytoft, Pham V. Tiem and Vu Tru: *Petroleum Potential and Maturity Modelling of the Northern Song Hong Basin, Vietnam*

Xianming Xiao, Dehan Liu, Paul G. Kralert, Yongchun Tang and Zhiguang Song: *Timing of Multiple Phases of Hydrocarbon Generation and Accumulation/migration in Early Palaeozoic Strata in the Lunnan Low Uplift of the Tarim Basin, People's Republic of China*

Xiao Xianming, Hu Yunxia, and Song Zhiguang: *Gas Potential of Bitumen in the Sinian Strata from the Middle Sichuan Paleo-uplift, Sichuan Basin, P. R. China*

N.S. Lavrenko: *Trace Elements in Oil Shales in the European Area North of Russia*

Wan Hasiah Abdullah: *Maceral and Textural Association in the Oil-generating Coals of Sarawak*

Jun-Chin Shen, Cheng-Lung Kuo, and Chih-Hsien Sun: *Hydrocarbon Potential and Evolution of Concentrated Type III Kerogens in Western Taiwan*

Nguyen Binh Thi Thanh and Nakayama Kazuo: *A Study on Hydrocarbon Potential of Carbonaceous Mudstones in the Liard Basin, Northeast British Columbia*

Jon H. Pedersen, Dag A. Karlsen, Jan E. Lie and Harald Brunstad: *Atypical Source Rocks and Petroleum of the Norwegian Continental Shelf*

Jun-Chin Shen and Wu-Liang Huang: *Hopaneoid Distributions in Coals and Coaly Shales from Northwestern Taiwan and a Newly Defined Maturity Parameter*

S.H. Wu, C.H. Sun, and C.L. Kuo: *The Characteristics of Alkylphenanthrenes and Dibenzothiophene in Condensates and Source rocks from Chinshui Anticline, Northwestern Taiwan*

Rushdy Othman: *Relationships between Rock-Eval S1 and Extractable Organic Matter for Selected Source Rock Samples from New South Wales*

Abdul Wahab Saleh Alaug: *Source Rock Evaluation of Al-Jawf Sector, Sab'Atayn Basin, Yemen*

L.A. Anishchenko, D.A. Boushnev and S.S. Klimenko: *Organic Matter Features of Coal-bearing and Marine Molasse of the Permian Peripolar Pre-Urals*

Mike Avery, Lavern Stasiuk and Martin Fowler: *Thermal Maturation of Tertiary and Cretaceous Strata, Labrador to Baffin Shelf, Offshore Eastern Canada: vitrinite reflectance versus Tmax from Rock Eval pyrolysis*

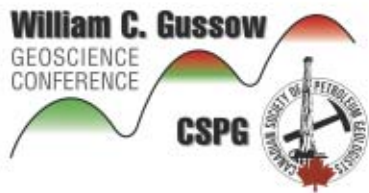
COMING SOON



Coalbed Methane: Back to Basics of Coal Geology

2005 Gussow Geoscience Conference

March 9-11, 2005



Get fired up for a discussion on one of the hottest topics in the industry while relaxing at the Radisson Inn, nestled in the beautiful Rocky Mountain setting of Canmore, Alberta. The 2005 Gussow conference will focus on geological aspects around Coalbed Methane (CBM)/Natural Gas from Coal (NGC) reservoirs. Sessions will focus on the following themes: geological controls on CBM, microscopic and geochemical coal studies, technical aspects of CBM from the lab to the field, and CBM in the Western Canada Sedimentary Basin.

Preceding the conference is an optional short course to be held in Calgary. Early bird registration begins in Decem

CSPG William C. Gussow Geoscience Conference Series

The CSPG has established a special topic, 2-day mini-conference series to be held in the first quarter of the ye pleased and honoured to dedicate this conference series to Willliam C. Gussow, a past president and Honorary Mem who has distinguished himself, his society and his country through his pioneering work in geology.

For sponsorship inquiries, please contact Kim MacLean at the CSPG office (kim.maclea@cspg.org)