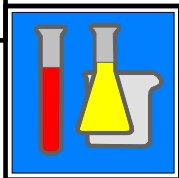




THE SOCIETY FOR ORGANIC PETROLOGY



NEWSLETTER

Vol. 22, No. 3

September, 2005

ISSN 0743-3816

**TSOP comes to
Louisville
Kentucky
USA**



LOUISVILLE



September 11 - 14, 2005

23rd Annual TSOP Meeting September 15 - 22, 2006 Beijing, China

See the **CALL FOR PAPERS** on page 14

Key Conference Themes

1. Organic petrology and geochemistry of non-marine source rocks;
2. Coal-derived hydrocarbons (coal-derived oil, unconventional natural gas and coalbed methane) exploration and development;
3. Coal petrology, coal-measure sedimentology and the hazardous elements in coal related to the environment and human health;
4. Organic petrology in coal mine security and coal utilization: mine fire, gas burst, coal slurry and other less-conventional utilization technologies;
5. New techniques in organic petrology/geochemistry.

Planned Schedule Includes

Friday, September 15, 2006

Pre-meeting field trip: Jurassic and Permo-Carboniferous Coal Basin

Saturday, September 16

Short Course: Petrology and geochemistry of coal and non-marine source rocks

Sunday, September 17

Technical sessions, business lunch

Monday, September 18

Technical sessions, conference dinner

Tuesday, September 19

Technical sessions

Wednesday - Friday, September 20 - 22

Shanxi field trip: Datong sights, Antaibao surface mine

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. You will then be billed by Elsevier. Contact Paul Hackley <phackley@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

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DEAD- Dec. Issue: December 1
LINES: March Issue: March 1, 2006

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). Zip disks are discouraged.

Contact the **Editor:**

David C. Glick
209 Spring Lea Dr.
State College, PA 16801 USA
phone: 814-237-1094
e-mail: xid@psu.edu

Address Changes

Please report any changes in address or contact information to:

Paul Hackley, TSOP Membership Chair
U.S. Geological Survey
956 National Center
Reston, VA 20192 USA
e-mail: phackley@usgs.gov

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:

<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

Contents

President's Page	4
New TSOP Officers Elected	5
Electronic Newsletter Delivery	5
In Memoriam: Martin Reinhardt, 1956 -2005	6
In Memoriam: John M. Hunt, 1918 - 2005	6
Quantitative Fluorescence References on Web Site	6
Newsletter Contributions Invited	6
TSOP Publications News	6
Coal Atlas CD-ROM: Request for Assistance, 2nd. Ed.	7
Bowen Basin Symposium	7
Registration form	insert
2005 TSOP Meeting, Louisville, Kentucky:	8
Student Icebreaker - FREE for Students	8
Fun in Louisville: Visitor Information	9
Meeting Program and Field Trips	10
2006 TSOP Meeting, Beijing, China	14
Registration form	insert
Calendar of Events	15
Photo Gallery: Bear Valley whaleback, Pennsylvania	16

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Cover photos of Louisville, clockwise from top right:

Louisville Slugger Museum. Kathie Sauer photo.
The Brown Hotel. Kathie Sauer photo.
Ali Larger Than Life. Jim Hower photo.
Churchill Downs. Kathie Sauer photo. **Addenda:** same photo by Kathie Sauer used in issues 22:1, 22:2.

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> (see page 5).

President's Page

from Colin Ward

Louisville Meeting

It's hard to believe that almost a year has gone past since the last TSOP meeting, when more than 100 organic petrologists from around the world gathered together in Sydney. The good news is that it's on again, with over 60 papers by an international team of authors scheduled for oral and poster presentation in Louisville. The Organising Committee for the 22nd Annual Meeting of the Society have put together an excellent program, with a CO₂ sequestration workshop, pre- and post-meeting field trips, and a range of social functions including, for the first time, a special student reception. On behalf of the Society I would like to thank Jim Hower, Maria Mastalerz, Agnieszka Drobniak, Jen O'Keefe and all the other members of the Organising Committee for arranging such an attractive meeting.

The list of papers for presentation at Louisville shows that organic petrology is alive and well, with research on topics ranging from fundamental studies to issues of increasing relevance in today's society, such as coal-bed methane, hydrocarbon generation and CO₂ sequestration. They also provide a very good platform for the Society's 23rd Annual Meeting, to be held in Beijing in 2006. I look forward to seeing as many TSOP members as possible in Louisville, and hope you will all find it rewarding from the scientific, professional and social points of view.

The meeting will also provide an opportunity to recognise some of the many people who have contributed, in different ways, to the Society and to the science it represents. These include the recipients of the newly-named John Castaño Honorary Membership Award and the William Spackman Student Research Award. I will also have the pleasure of presenting several Distinguished Service Awards, recognising some of the people who have helped make the Society the vibrant and active body it is today.

Changes to the TSOP By-laws

For some time now Council has been trying to find a way to extend the term of office for the President, and modify the structure of the Society to facilitate a longer and therefore smoother election cycle. The current structure provides a one-year term for the President, Vice-President

and President-elect, a two-year term for the Councillors, and a three-year term for the Secretary/Treasurer. The Editor is elected for a one-year term, but is eligible for re-election; the other officers are not eligible for immediate re-election to the same position.

This relatively rapid turnover on Council has the advantage of introducing fresh people and ideas to the Society at frequent intervals, but has the disadvantage that longer-term projects are not easily embarked upon, or may not be carried through as smoothly to completion. A longer term electoral cycle has therefore been suggested as a mechanism for smoothing out the flow, giving Council greater scope to draw up and implement longer-term strategies for the Society's benefit.

A subcommittee of Council, led by past-President Bob Finkelman, has drawn up a series of amendments to the Society's By-laws, that if accepted will see the positions of President-elect and Vice-President combined into a single Vice-President position, and the President and the Vice-President each elected for a two-year term. The position of Secretary/Treasurer, on the other hand, would be split into two separate positions, Secretary and Treasurer, with each again being elected for a two-year term. The proposal would allow the terms for the Secretary and Treasurer, but not the President, Vice-President or Councillors, to be extended if agreed to by Council up to a maximum of six years.

This would produce a Council consisting of seven people, as it does now. Elections for the positions would not all take place at once, but be arranged so that some positions (e.g. Secretary) are filled in one year and others (e.g. Treasurer) the following year. This would maintain a significant degree of continuity among the Council members, and avoid the disruption associated with a complete turnover at two-year intervals. Continuity would also be provided, in the proposal, through the Vice-President moving on to become President, unless otherwise determined by Council.

Details of the proposed changes have been placed on the TSOP web site, and I strongly encourage all members to have input to developing the proposal. Indeed, they may be a useful topic for discussion over a cup of coffee, or perhaps something stronger, at the Louisville meeting. The proposal is not necessarily "set in concrete", and your comments and

suggestions, whether supporting the changes, in favour of the status quo, or somewhere in between, will help ensure that the proposed amendments, when they are finally put to the members for ballot, reflect the wishes of the Society in general.

Farewell and Thank You

The fact that it is now almost a year since the Sydney meeting also means that this is my last contribution to the Newsletter as President. It has been a very interesting and rewarding year, and allowed me to strengthen a number of old friendships, and also to gain a number of new friends and colleagues in the process. Given the time needed to overcome the butterflies that follow taking office, however, I can fully appreciate the feelings of my predecessors that the President leaves the job after only a single year feeling that a longer term would allow more of the ideas put up from various sources during the year to be followed through to completion.

With the meetings in Sydney and Beijing, the TSOP has truly emerged as an international scientific society, and the enthusiastic support of the Louisville meeting shows that its traditional strength in North America has also grown in the process. The Society is also increasingly looking for ways to co-operate with other groups, with the Gussow Conference earlier this year as an example, and joint meetings with ICCP are currently under active consideration. The strength of the Society is also seen through the number of formal publications arising from its meetings, including, for example, the eleven papers in the recent special volume of the *International Journal of Coal Geology* based on the 2003 TSOP meeting in Washington.

In closing I would like to thank very sincerely my colleagues on Council and in the various Committees for their sound advice, willing assistance and unflinching support over the past twelve months, and wish Peter Warwick every success as he takes on the Presidential role. The same good wishes apply to the incoming Council members, along with thanks to those whose term has been completed this year. Finally, I would like to thank you, the members, for your support of the Society, and for making the year such a rewarding experience.

Colin Ward
President, 2004-5

NEW TSOP OFFICERS ELECTED

In the recent election, Jeff Quick, Wolfgang Kalkreuth, and Joe Curiale were elected and Mike Avery and David Glick were re-elected.

The Society thanks the voters for their participation, Bill Huggett for his efforts as Chair of the Ballot Committee, and the other candidates -- Stephen Bend, Cortland Eble, and Joan Esterle -- for their willingness to serve.

TSOP's 2005 - 2006 Council will be:

President: Peter Warwick
President-Elect: Jeff Quick
Vice-President: Wolfgang Kalkreuth
Secretary-Treasurer: Mike Avery
Councilor ('04 - '06): Tim Pratt
Councilor ('05 - '07): Joe Curiale
Editor: David Glick

H

Electronic Newsletter Delivery: E-mail and Electrons or Printing and Postage?

Color printing and postage for the Newsletter are major expenses in the TSOP budget. Those who prefer electronic delivery may choose not to receive a printed Newsletter. To make this choice, check the box on the dues form, or send an e-mail to the Editor <xid@psu.edu> at any time.

Each quarterly TSOP Newsletter is posted on the web site at the same time that printed copies are mailed; an e-mail announcing each new posting will be sent to those on the 'electronic delivery' list.

If an individual printed issue is desired, it will be mailed on request, and the choice of the printed newsletter may be reinstated at any time by contacting the Editor.

To see the Newsletters now available on the TSOP web site, go to <http://www.tsop.org/news1.htm>. Issues since June, 2002 (volume 19, no. 2), are available in Portable Document Format (PDF) files. These require the free Adobe Acrobat viewer program available from the linked location on the web site. Each issue is available in two formats, a smaller file suitable for screen viewing and a larger file including graphics at 300 dpi which will provide better appearance when printed.

Every back issue has recently been scanned and processed by optical character recognition to produce a 261 MB PDF file with searchable text. Council will discuss possible methods for distributing these older issues electronically.

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Newsletter readers are invited to submit remembrances of our deceased colleagues for the TSOP Newsletter and web site.

In Memoriam

Martin Reinhardt, 1956 - 2005

Long-time TSOP member Martin Reinhardt died on March 25, 2005. From the early years of TSOP, he was among the most active members in Europe, and as Councilor from 1991-93 was the first TSOP officer residing outside North America. He traveled to the U.S. for several TSOP annual meetings and also served on the Outreach Committee and the Research Committee (being involved in projects on Standardization of Kerogen Isolation / Characterization Methods and Standardization of Reflectance and Fluorescence Methods starting in 1994). He was one of the original TSOP proponents of an Internet communication forum for organic petrologists, serving on the ad-hoc Committee on Electronic Communications starting in 1994.

Professionally, after a 3-year project at BEB and Mobil Oil in Germany, in 1993 he began work as an independent consultant in Hannover. At that time he reported that his work was in Germany as well as overseas, mainly for industry, but also within research programs.

A memorial is reprinted in German in the ICCP Newsletter, <http://www.iccop.org/pdf/iccp35.pdf> H

In Memoriam

John M. Hunt, 1918 - 2005

Eminent organic geochemist John M. Hunt died on July 23, 2005, in Falmouth, Massachusetts. A thorough obituary from Woods Hole may be found at <http://www.whoi.edu/mr/obit.do?id=5803> and Reflections on the Career and Times of John M. Hunt, which includes a publication list, may be found at <http://www.earthscape.org/r3/whelan/whelan12.html>

The first half of his career was in the oil industry, where he performed groundbreaking research and pioneered the use of new techniques and analytical instruments. In 1964 he moved to Woods Hole Oceanographic Institution where he served as a department chair and linked chemists with geologists; he retired in 1984. He was an expert on the origin and migration of petroleum and was the author of *Petroleum Geochemistry and Geology*. He collaborated with TSOP members and was a supporter of organic petrology. H

Quantitative Fluorescence Reference List Added to TSOP Web Site

A section of references on Quantitative Fluorescence, provided by an anonymous contributor, has been added to the References section of the TSOP web site. This complements the section on Fluorescence Microscopy added a few months ago. Additional references for this or any of the other sections of references, or entire new sections, may be submitted to Internet Committee Chair David Glick (see page 3).

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Newsletter Contributions Invited

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 stories. Photographs and illustrations are welcomed; printing in color may be possible in some issues. Please provide all materials to the Editor **before the deadline** of December 1 for the December issue and March 1 for the March issue. Please contact David Glick, TSOP Editor (see page 3; individual e-mails should be limited to 5 MB)

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TSOP Publications News

Please note that the last copy of TSOP publication #3, *Influence of Kerogen Isolation Methods on Petrographic and Bulk Chemical Composition of a Woodford Shale Sample*, has been sold. See the publications list and order form on the web site at www.tsop.org/tsoppubs.htm, which has been updated to reflect the new status.

Readers are encouraged to order TSOP publications now, as excess stocks of old publications may be disposed of.

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Atlas of Coal Geology CD-ROM Request for Assistance on the Second Edition

from the AAPG-EMD web site

The Energy Minerals Division (EMD) and The Society for Organic Petrology (TSOP) are planning a second edition of the 1998 CD-ROM publication titled Atlas of Coal Geology (AAPG Studies in Geology #45). The second edition will contain additional photographic images, higher resolution images, possibly video clips, improved CD utilities, expanded text, and additional subject matters. EMD is soliciting your assistance in the production of the second edition.

Individuals and organizations that can provide coal related images, financial support, text, or editing are highly encouraged to help in the production of this important coal publication. Coal related images depicting all aspects of coal geology, environmental aspects, and coal resource utilization are needed. Authors of selected images will be referenced within the image caption. Images that are not selected will be returned. We are particularly looking to improve the current image collection, to add more international examples, and include geological features and issues that were absent in the first edition. We plan to have a new section on recent peat deposition, coal education, and coal sequence stratigraphy.

Help from the coal industry to fund part of the production costs is encouraged and important for the project. Companies providing sponsorship will be acknowledged in the publication. We would like contributors to provide items as soon as possible. We anticipate a draft publication completed by the end of September 2005. Please send slides, photographs, and other hardcopy submissions to:

Alex Papp
8163 Lone Maple Lane
Lone Tree, Colorado 80124
apapp5@comcast.net

It is preferred that any digital submissions of images and text be provided on diskette or CD rather than by e-mail! If submitting digital images created from hardcopy photographs or slides, please digitize from the originals at the highest available resolution.

Over 65 individuals and organizations provided images for the first edition (see www.tsop.org/cdatlas.htm) and at least one image was included from each of those contributors in the publication.

Please help us complete this second edition and provide a revised reference for those interested in the science and utilization of coal.

Bowen Basin Symposium 2005 The Future For Coal - Fuel For Thought Rydges Capricorn Resort, Yeppoon, Queensland 12 - 14 October 2005

Invitation

Coal geology is ever evolving in response to mining and market needs. The Bowen Basin Symposium 2005 will present experts from Queensland's Bowen Basin mines and other domestic and international view points on the critical issues of what will shape new directions in coming years and how geology will be changed and enhanced as a result.

The Bowen Basin Symposium series occurs only once every five years so you are guaranteed significant insight from those leading the way in coal mining and marketing practice.

A concise two and a half days of presentations will feature the latest advances in topics of relevance to coal geology. Poster papers and trade exhibitors will provide displays at the venue. Four informative work shops are also planned around the event.

This conference has always and is bound to again produce bench mark information in mining.

Venue

This year's Symposium is to be held at the Rydges Capricorn Resort, Yeppoon, Queensland. This is a beautiful tropical destination and gateway to the great barrier reef. Accommodation can be booked directly through the resort.

Telephone: +61 7 4124 9943 Facsimile: +61 7 4125 6833
Website: www.rydges.com.au

Preliminary Program

Wednesday October 12, 2005

9:00am - 10:30 pm Workshops Session 1
11:00am - 12:30 pm Workshops Session 2
12:30pm - 5:00 pm Registration, Welcome &
Conference Papers
5:30 pm Welcome Function

Thursday October 13, 2005

8:30am - 9:00 am Registration
9:00am - 5:30 pm Official Opening, Keynote Address
(Frank Van Schagen, CRC).
Conference Papers

7:00 pm Symposium Dinner – Entertainment to be announced

Friday October 14, 2005

9:00am - 5:00 pm Conference Papers

Saturday October 15, 2005

Corporate Golf Day.

E-mail Contact: cngordon@tpg.com.au

SEE ALSO inserted page / Registration Form



Louisville Slugger Museum, venue for the Monday evening reception. Kathie Sauer photo.

Louisville, Kentucky
11 - 14 September, 2005
22nd Annual Meeting of

The Society for Organic Petrology

from the 2005 Annual Meeting Committee

We look forward to seeing you in Louisville at the 2005 TSOP meeting!

The Organizing Committee of the 22nd Annual TSOP meeting to be held in Louisville, Kentucky, USA, on 11-14 September 2005, would like to invite you to participate in the conference. See the meeting web site at <http://igs.indiana.edu/tsop2005/>

Jim Hower
University of Kentucky, Center for Applied Energy Research

Maria Mastalerz
Indiana Geological Survey, Indiana University

ALL STUDENTS ATTENDING THE 2005 TSOP MEETING IN LOUISVILLE ARE INVITED TO BOWL AT LUCKY STRIKE LANES FOR FREE! THE EVENING WILL PROVIDE STUDENTS WITH THE OPPORTUNITY TO MEET AND INTERACT WITH EACH OTHER IN A FUN, RELAXED ENVIRONMENT. THE FESTIVITIES WILL BE HELD ON SUNDAY NIGHT (SEPTEMBER 11), AFTER THE ICEBREAKER, AND THE VENUE WILL BE WITHIN A SHORT WALKING DISTANCE OF THE BROWN HOTEL. PLEASE JOIN US AND REMEMBER TO SIGN UP TO BOWL ON YOUR REGISTRATION FORM.

Accommodation and Meeting Venue - The Brown Hotel

As described in previous issues, located at 335 West Broadway (4th and Broadway) in downtown Louisville. Telephone 502-583-1234.

PRELIMINARY PROGRAM

Sunday, September 11

Workshop:

Sequestration of CO₂ in coal beds 8:30 a.m – noon
Instructor: Curt M. White, National Energy Technology Lab

Field trip to the Falls of the Ohio noon-5 p.m.

This trip will offer an excellent opportunity to observe Silurian and Devonian fossil beds via a walking tour through the state park. <http://www.fallsoftheohio.org/>

Opening Reception, Brown Hotel 6:00 pm - 8:00

Student Icebreaker 8:00 pm

Free for students! **Bowling** at Lucky Strike Lanes – a walk of just a few blocks from the meeting – a chance to get together with your fellow students from across the continent and around the world, and have some fun. Non-students are also welcome upon payment of a small fee.

Meeting Program
continues on page 10

2005 TSOP: A GAME PLAN FOR FUN IN LOUISVILLE, KENTUCKY

LINKS TO RESTAURANT/LOUISVILLE WEBSITES:

www.louisville.com
www.gotolouisville.com
www.brownhotel.com
www.hellolouisville.com
www.oldlouisville.com
www.louisvillehotbytes.com

Eat in the Brown Hotel's famous English Grill with 420 wines from which you may choose or walk four blocks along fourth street to 4th Street Live! at the Galleria.



Interested in visiting places near your hotel...

The Brown Theater	www.brownhotel.com	(adjacent to Brown hotel)
The Louisville Palace	www.louisvillepalace.com	(1 block from Brown hotel)
Louisville Stoneware:	www.louisvillestoneware.com	(1 mile from Brown hotel)
Actor's Theater:	www.actorstheatre.org	(1 mile from Brown hotel)
Louisville Glassworks:	www.louisvilleglassworks.com	(1 mile from Brown hotel)
Louisville Ballet	www.louisvilleballet.org	(1 mile from Brown hotel)
Kentucky Center for the Arts:	www.kentuckycenter.org	(1 mile from Brown hotel)
Louisville Science Center:	www.louisvillescience.org	(1 mile from Brown hotel)
Louisville Slugger Museum:	www.sluggermuseum.org	(1 mile from Brown hotel)
Muhammad Ali Center	www.alicenter.org	(1 mile from Brown hotel)
Kentucky Museum of Art & Craft	www.kentuckyarts.org	(1.3 miles from Brown hotel)
Belle of Louisville	www.belleoflouisville.org	(2 miles from Brown hotel)
Speed Art Museum	www.speedmuseum.org	(2 miles from Brown hotel)

See the World's biggest baseball bat at the Louisville Slugger Museum or watch an IMAX film at the Louisville Science Center!

For a tour of the city, contact:
Louisville Horse Trams at
502-581-0100 or online at
www.louisvillehorsetrams.com

OR for information on self-
guided walking tours go to:
www.oldlouisville.com/



IF YOU WANT TO TRAVEL A BIT FARTHER IN A CAR...

Speed Art Museum	www.speedmuseum.org	(3 mi from Brown hotel)
Churchill Downs	www.churchilldowns.com	(4 mi from Brown hotel)
Kentucky Kingdom	www.sixflags.com	(5 mi from Brown hotel)
Louisville Zoo	www.louisvillezoo.org	(7 mi from Brown hotel)
BBC Brewing Co.	www.bbcbrew.com	
Jim Beam's American Outpost	502-543-9877	
Buffalo Crossing Family Fun Ranch	www.buffalocrossing.com	
My Old KY Dinner Train	www.kydinnertrain.com	
Maker's Mark Distillery	www.makersmark.com	
Mammoth Cave National Park	www.nps.gov/maca	

For a Kentucky map and a 2005 Travel Guide to KY, please go to www.kytravel.com

The Visitor Center Guide for Louisville may be accessed Online at:

www.gotolouisville.com/Pubs/VisitorGuide-Winter2003.pdf

We also encourage you to visit
 the TSOP website for informa-
 tion about the city of Louisville,
 the TSOP conference, and for
 featured activities in the region.
 The TSOP website for the
 2005 meeting is:
<http://igs.indiana.edu/tsop2005/>

Monday, September 12

Time	Technical Session: Petroleum and source rocks
7:45-8:00	Welcome : <i>Ari Geertsema</i> , Director, Center for Applied Energy Research <i>John Steinmetz</i> , Director and State Geologist, Indiana Geological Survey
8:00-8:20	Organic matter from saline, Pleistocene-Holocene, Kilpoola Lake, central-southern-Okanogan valley, British Columbia, Canada; recognizing geological perturbations and analogy for potential hydrocarbon source rocks. <i>L.D. Stasiuk, K. Jagger, and B. Kerr</i>
8:20-8:40	The role of charcoalfied terrestrial organic matter in the accumulation of Devonian-Mississippian shales of the Appalachian Basin <i>S. J. Hawkins, and S. M. Rimmer</i>
8:40-9:00	D/H ratios and hydrogen exchangeability of type-II kerogens with increasing maturity <i>G. Lis, A. Schimmelmann, and M. Mastalerz</i>
9:00-9:20	Role of maceral composition on d13C and d15N; Implications for chemostratigraphic studies <i>S. Maharaj, L.E. Yoksoulion, R. A. Von Mann, B.L Overfield, L. E. Black, J. Floyd, H.D. Rowe, and S.M. Rimmer</i>
9:20-9:40	Petroleum potential of Tertiary coals and their contribution to oil field formation in Nam Con Son Basin, Vietnam <i>Nguyen Thi Thanh Binh, Tomochika Tokunaga, Akihiko Okui, Nguyen Thu Huyen, Hoang Phuoc Son, and Mai Van Binh</i>
9:40-10:00	Positive correlation between contents of TOC and Sr in source rocks of Shahejie Formation of Palaeogene in Dongying Sag, Eastern China <i>Guangyou Zhu, Qiang Jin, Shuichang Zhang, Jinxing Dai, Guanmin Wang, and Yingbo Liang</i>

10:00-10:20

Break

Time	Technical Session: CBM 1
10:20-10:40	Organic petrology in the courtroom: Is "CBM" a constituent of coal, or a variety of natural gas? <i>Jeffrey R. Levine</i>
10:40-11:00	Coalbed gas content and organic petrology, Wilcox Group, northern Louisiana <i>P. C. Hackley, P. D. Warwick, and F. Clayton Breland, Jr.</i>
11:00-11:20	Differential swelling and permeability change of coal in response to CO ₂ injection for ECBM <i>S. Mazumder, N. Siemons and K. H. A. A Wolf</i>
11:20-11:40	Research on the geochemical characteristics of gas prone source rocks and evaluation of prospective resources of coal-formed gas in Jiyang Depression <i>Xia Luo, Jian Li, Jinxing Dai, Se Gong, Zhongxiang Chao, Hua Liu, and Linye Zhang</i>
11:40-12:00	Dolerite intrusions and the occurrence of coal seam methane in South African coals <i>Kaydy Pinetown and Abouna Saghafi</i>

12:00 -1:00

Lunch break

Monday, September 12, continued

Technical Session: Coal - macerals and minerals	
1:00-1:20	Research on the character of hydrocarbon regeneration of Carboniferous-Permian in JiYang Depression of Bohaiwan of East China <i>Jian Li , Xia Luo, Zhi-Hua Xiao, Xiu-Gin Wang, and Cheng-Hua Ma</i>
1:20-1:40	Chemical and combustion properties of pure macerals: Preliminary results <i>J. C. Crelling</i>
1:40-2:00	Variations in elemental composition of macerals with vitrinite reflectance and organic sulphur in the Greta Coal Measures, New South Wales <i>C. R. Ward, Zhongsheng Li and L.W. Gurba</i>
2:00-2:20	Moisture in coal: observations and significance <i>J. Quick and J. Luppens</i>
2:20-2:40	The endemic fluorosis caused by indoor combustion of coal; Is the fluorine from coal or clay? <i>Baoshan Zheng, Daishe Wu, Binbin Wang, Xiaojing Liu, Aimin Wang, Yonghua Wu, Hongshu Chen, and Robert B. Finkelman</i>
2:40-3:00	INNA study on different coal pyrites from Nantong Coal field in Chongqing, Southwest China <i>Yuegang Tang, Yaofa Jiang, Deyi Ren, Fenghua Zhao and Shaoqing Wang</i>

3:00-3:30

Break

3:30-5:00

Poster session (posters listed at the end)

6:30-

Reception at the Louisville Slugger Museum

<http://www.sluggermuseum.org/>

Tuesday, September 13

Technical Session: Coal - deposition and coalification	
8:00-8:20	Petrophysical analysis of coal lithotypes <i>J. Esterle and G. Le Blanc Smith</i>
8:20-8:40	Influence of the petroleum chemical composition on the coke quality <i>M. M. Escallón, P. Gafarova, G. D. Mitchell, Ö. Gül and H.H. Schobert</i>
8:40-9:00	Contribution of palynofacies to coal petrography in low rank tropical coals of Colombia <i>A. Blandón, G. Gorin, A. Restrepo and F. Arango</i>
9:00-9:20	Characteristics of "Rimswamp" coal-forming environments in the Congaree River floodplain of South Carolina <i>A. D. Cohen, D.C. Shelley, and A. Humphries</i>
9:20-9:40	The effects of contact metamorphism on the elemental and isotopic composition of coal: An example from the Illinois Basin <i>S.M. Rimmer, H.D. Rowe, and J.C. Hower</i>
9:40-10:00	Results of digital image analysis and their applicability for fluorescence studies of coal seam <i>A. Restrepo, A. Blandón, and F. Arango</i>

10:00-10:20

Break

Tuesday, September 13, continued

10:20-10:40	Chemistry of thermally altered high volatile bituminous coals from southern Indiana <i>R. Walker, M. Mastalerz, S. Brassell, E. Elswick, J.C. Hower, and A. Schimmelmann</i>
10:40-11:00	The nature of delayed coke from blends of petroleum residua and coal <i>G. D. Mitchell, L.R. Rudnick and H. H. Schobert</i>
11:00-11:20	Coal metamorphism as a result of igneous intrusion in the Raton Basin, CO/NM: A preliminary report based on isotopic, petrographic and vitrinite reflectance data <i>J.R. Cooper, A.G. Whittington, S.M. Rimmer, and J. Crelling</i>
11:20-11:40	Case II diffusion in coal <i>S. Mazumder, J. Bruining and K.H.A. Wolf</i>
11:40-12:00	Use of petrographic investigations in prediction of combustion behaviour of inertinite-rich coal and char and fly ash formation <i>Atul Kumar Varma, Mrityunjay Kumar, Vinod Kumar Saxena and Ashish Sarkar</i>

12:00 -1:40

Business lunch

Technical Session: CBM 2	
1:40-2:00	Geologic controls on "Type Producing Areas" (TPAs) in the Fruitland Coal Bed Gas Field, New Mexico and Colorado <i>J. R. Levine, and R.H. Meek</i>
2:00-2:20	A study of the effect of moisture on gas storage capacity in American coals <i>C. Hartman and T. Pratt</i>
2:20-2:40	CMM hazards and exploitation in China <i>Yunxing Cao</i>
2:40-3:00	Gas storage and flow properties of Australian coals and impacts on CO ₂ sequestration and ECBM feasibility <i>A.Saghafi and D. Roberts</i>

3:00 – 3:30

Break

3:30-3:50	Coal-bed gas in anthracite in Qinshui Basin of China <i>Shengfei Qin, Yan Song, Feng Hong, Mengjun Zhao, and Shaobo Liu</i>
3:50-4:10	The unbearable lightness of gas: Characterisation of some low rank coal seam gas deposits in New Zealand <i>C.I. Sule, T.A. Moore and S.D. Weaver</i>
4:10-4:30	Characteristics of the coal gas fields with reserves over 60 billion m ³ , China <i>Jinxing Dai, Jian Li, Shengfei Qin, Lu Hou, and Weiwei Ding</i>
4:30-4:50	Geochemical characteristics of coal-formed gas fields in the Foreland of Western Sichuan Basin <i>Shizhen Tao and Shengfei Qin</i>

8:00

TSOP Council meeting

Wednesday, September 14

Post-meeting **Field trip to a coal mine** 7:30 a.m. - 5:30 p.m.

This trip will examine outcrop and surface mine exposures of Lower and Middle Pennsylvanian strata (Langsettian – Bolssovian) on the eastern margin of the Illinois Basin.

POSTERS

Maturation and organic geochemistry of a series of modern to Eocene resins from New Zealand and Australia <i>Paul C. Lyons, William H. Orem, and Maria Mastalerz</i>
Application of C7 hydrocarbons technique to oil and condensate from type III organic matter in northwestern Taiwan <i>Ching-Tse Chang, Maw-Rong Lee, Li-Hua Lin, and Cheng-Lung Kuo</i>
Aciniform black carbon and spheroidal carbonaceous particles at the K-T boundary <i>M. C. Harvey</i>
Characteristics of organic material and thermal maturity in a local petroleum system <i>Louis L. Tsai, Tsun-Chung Yang, Hsien Tsung Lee, and Li-Chung Sun</i>
Characteristics of carbon isotopic compositions of coal derived alkane gases from major coaly Jurassic Basins , NW China <i>Jinxing Dai, Xia Luo , Lu Hou, Jian Li, Guoyi Hu, Shengfei Qin, and Shizhen Tao</i>
Oils, source correlation based on rocks, Vulcan Subbasin, Northwestern Australia <i>Jun-Chin Shen, and Ming-Shen Wu</i>
Lead isotope ratios in Spanish coals <i>M. Díaz-Somoano, I. Suárez-Ruiz, J.I.G. Alonso, J. Ruiz Encinar, M.A. López-Antón and M.R. Martínez-Tarazona</i>
Hydrocarbons generation by the artificial confined pyrolysis of coals from Sabinas-Piedras Negras (Mexico) and Donets (Ukraine) Basins <i>D. Alsaab, L. Martinez, I. Suarez-Ruiz, A. Izart, and M. Elie</i>
A method for using solid bitumen reflectance as a maximum-recording geothermometer <i>C.E. Barker</i>
The effect of supercritical water on vitrinite reflectance <i>C. E. Barker and M.D. Lewan</i>
Characterization of vitrified and unvitrified Eocene woody plant tissues <i>P. Kaelin and K. B. Anderson</i>
Investigation of pecket amber by GC-matrix isolation FTIR-MS <i>Y. Rosales and K. B. Anderson</i>
Petrography, palynology and depositional conditions in the vertical variation of coal seams of Tertiary Amaga Formation <i>F. Arango, A. Blandón, and A. Restrepo</i>
The coal-sourced gas fields in Kuqa Depression of Tarim Basin <i>Shengfei Qin, and Jinxing Dai</i>
The Upper Cretaceous (Campanian) Belly River Group coals of SW Saskatchewan, Canada <i>M.C. Frank and D. Akinbiyi</i>
Correlation of gases with source rocks in Well Xu shen1 and Sheng-ping Gas Field in Song Liao basin, China <i>Xia Luo, Jian Li, Renhe Liu, Zhisheng Li, Guoyi Hu, Chenglin Liu, Chenghua Ma, and Xiaojuan Wang</i>
Micro-scale analysis of cleats: Implications for coalbed gas potential <i>W. Solano-Acosta, M. Mastalerz, and A. Schimmelmann</i>
Evaluation of the physical properties of coal macerals using Atomic Force Microscopy <i>F. A. Bruening and A. D. Cohen</i>
Concentration and distribution of potentially hazardous trace elements in coals from DPR Korea <i>Jun Hu, Baoshan Zheng, Robert B. Finkelman, Binbin Wang, Mingshi Wang, Shehong Li, and Daishe Wu</i>
Arsenic concentrations in Chinese Coals <i>Mingshi Wang, Baoshan Zheng, Robert B. Finkelman, and Jun Hu</i>
Quantitative assessment of particulate organic matter and geochemical changes in the Upper Devonian New Albany Shale source rock (Indiana) <i>S.R. de la Rue, S. M. Rimmer, and H. D. Rowe</i>
C and N isotope excursions and burial of organic matter in the Late Devonian central Appalachian Basin <i>T. Sun, , A.M. Carmo, H.D. Rowe, and S.M. Rimmer</i>
Flue gas and pure CO ₂ sorption properties of coal: A comparative study <i>S. Mazumder, P. van Hemert, A. Busch, K-H Wolf and P. Tejera-Cuesta</i>
Evaluation of coalbed methane and shale gas prospects of Nova Scotia : Physico-chemical and petrological constraints <i>P.K. Mukhopadhyay</i>
Floatability of coal from KWK Kleofas mine in dependence on its maceral composition <i>P. Fecko, I. Pectova and B. Tora</i>

2006 TSOP Meeting Beijing, China September 15 - 22

The 23rd Annual Meeting of TSOP will be held at the Xijiao Hotel, in the western part of Beijing. It is adjacent to many universities, including China University of Mining and Technology (Beijing) (CUMT), which will be the host organization and sponsor the meeting.

For additional information, see

- TSOP web site www.tsop.org
- Future TSOP Newsletters
- ENCLOSED Registration form

Key Conference Themes

1. Organic petrology and geochemistry of non-marine source rocks;
2. Coal-derived hydrocarbons (coal-derived oil, unconventional natural gas and coalbed methane) exploration and development;
3. Coal petrology, coal-measure sedimentology and the hazardous elements in coal related to the environment and human health;
4. Organic petrology in coal mine security and coal utilization: mine fire, gas burst, coal slurry and other less-conventional utilization technologies;
5. New techniques in organic petrology/geochemistry.

CALL FOR PAPERS

**Abstracts should be submitted by
April 30, 2006.**

An abstract of up to 3 pages (including figures) will be accepted. Leave 2 cm margins on both sides; use 1.5 line spacing and a 12-point Times New Roman font. The title of each abstract should be in 12-point bold and include names of the authors (12-point) and their affiliations (10-point). Figures in Abstracts should be suitable for black and white reproduction; colour figures may be acceptable (at additional cost) in full-length papers subsequently submitted to the International Journal of Coal Geology. After review and notification of acceptance authors will also be invited to submit their papers for a special issue of the International Journal of Coal Geology.

Abstracts may be submitted by post or e-mail (Word, WordPerfect). Please enclose a copy of your abstract on a diskette/CD if submitting by post.

Indicate whether an oral or poster presentation is preferred.

Abstracts should be sent to:

Prof. Kuili Jin
Key Laboratory of Coal Resources
China University of Mining and Technology (Beijing)
D-11, Xueyuan Road
Beijing, China, 100083
Telephone: 86-10-62331854-8001
Fax: 86-10-62318122
E-mail: tsop2006@mail.edu.cn

Oral Presentations

The oral presentations are scheduled for 25 minutes, including five minutes for questions. PowerPoint presentations are to be provided on CD or sent to the Program Secretariat by e-mail prior to the meeting, for loading on to the conference computers. Facilities for slide and overhead projection will also be available for the presentations.

Poster guidelines

Each presenter will get ONE poster board (approximately 2.4 m by 1.2 m or 8 ft by 4 ft) to display their poster. Posters are to be put up for display by Tuesday morning. Please bring some Velcro and/or push pins.

Student Paper Competition

TSOP will hold its usual competition for Outstanding Student Paper at the meeting, with a 250 USD prize. The paper may be presented either in an oral technical session or as a poster, and will be judged on both technical content and presentation/delivery. Requirements (from the Procedures Manual) are:

1. The student should be a TSOP member in good standing.
2. The subject presented must have been initiated by the student and completed while the presenter was a student.
3. To be considered a student, a person should be actively enrolled at a college or university at the time of the presentation or have been enrolled within twelve months prior to the presentation. The student should be pursuing a college or university degree as his/her primary professional activity and not working in a professional capacity while pursuing a graduate degree at the same time.
4. If a paper has multiple authors, the student must be the senior author and the presenter. The award will not be given unless a minimum of three students enters the competition.
5. Papers are presented. If none of the student papers meets a minimum standard, as determined by the Awards Committee, no award may be given.

MEETING VENUE/ACCOMMODATION

Xiaojiao Hotel is a nice hotel with 3/4 star ranking. It has excellent conference facilities, and it has hosted many international meetings.

Address: 18 Wangzhuang Road, Beijing, China 100083.

Telephone: 86-10-62322288

Fax: 86-10-62311142 Website: xijiao-hotel.com.cn

The Xijiao Hotel is a prime choice because it is located in the western part of Beijing, adjacent to many Universities, including China University of Mining and Technology, China University of Geosciences, Beijing University of Science and Technology, Research Institutes of Petroleum Exploration and Development, and other institutions. It is fairly close to Peking University, Tsinghua University, and scenic places like Summer Palace and Fragrant Hill. It is also convenient to get to Downtown Beijing, and to the Great Wall, Palace Museum and Peking Man site. This area is fairly close to Zhongguangcun, dubbed the Silicon Valley of Beijing.

Special conference rates (currency-1 USD = 8.1RMB)

¥ 700 per night for 4-star ranking rooms (one bed for individual or a couple)

¥ 300/260 per night for 3-star ranking standard rooms

Free of charge for swimming, no service charge or tip

¥ 40 per full buffet breakfast for individual if ordered.

Method of payment: No credit cards are accepted. Bank transfers should be addressed to our University (our university passes this money in full on to Xijiao Hotel), or, pay at the hotel reception desk.

Account Name: Key Laboratory of Coal Resources, China University of Mining and Technology (Beijing).

Account Number: 816614970408091001

Bank: Bank of China, Beijing Branch, NO.8, YA BAO LU, Beijing, China

Swift Code: BKCHCNBJ110

Other accommodations:

Guest House of CUMTB

Jinma Spring Hotel:

E-mail: zndjm@andjm.com

Fax: 86-10-62328808

Telephone: 86-10-62328899

Mengxi Hotel:

E-mail: bjskhyfwzx@163.com

Fax: 86-10-62092159

Telephone: 86-10-62325588

Calendar of Events

2005

Sept. 11 - 14, 2005: 22nd Annual TSOP Meeting, Louisville, Kentucky, USA.

<http://igs.indiana.edu/tsop2005/> See pages 8-14.

Sept. 12 - 15, 2005: 22nd International Pittsburgh Coal Conference, Pittsburgh, PA, USA

<http://www.engr.pitt.edu/pcc/>

Sept. 12 - 16, 2005: 22nd International Meeting on Organic Geochemistry (IMOG), Sevilla, Spain.

<http://www.eaog.org/meetings/meetings.html>

Sept. 18 - 23, 2005: **57th Annual Meeting of ICCP.**

Patras, Greece. Followed by a four-day excursion.

<http://www.iccop.org/pdf/PatrasInfo.pdf>

Sept. 18 - 20, 2005: Eastern Section, AAPG, Radisson Hotel at Waterfront Place, Morgantown, WV, USA , by the Eastern Section, AAPG

<http://karl.nrcce.wvu.edu/esaapg/>

Oct. 12 - 14, 2005: Bowen Basin Symposium, The Future For Coal - Fuel For Thought. Rydges Capricorn Resort, Yeppoon, Queensland, Australia. See page 7 and insert.

Oct. 16 - 19, 2005: Geological Society of America Annual Meeting, Salt Lake City.

Nov. 8 - 10, 2005: 7th Annual Unconventional Gas Conference, Hosted by the Canadian Society for Unconventional Gas, Telus Convention Centre, Calgary, Alberta, Canada. <http://events.csug.ca/ugc>

2006

March 26 - 30, 2006: 231st American Chemical Society meeting, Atlanta, Georgia

July 16 - 21, 2006: Carbon 2006, Aberdeen, Scotland. <http://www.carbon2006.org/>

Sept. 10 - 14, 2006: 232nd American Chemical Society meeting, San Francisco, California

Sept. 15 - 22, 2006: 23rd Annual TSOP Meeting, Beijing, China. <http://www.tsop.org>

Nov. 14 - 17, 2006: 8th Annual Unconventional Gas Conference, Hosted by the Canadian Society for Unconventional Gas, Calgary, Alberta, Canada. Web site: <http://www.csug.ca/>

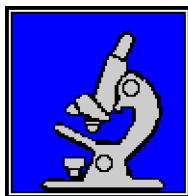
Photo Gallery



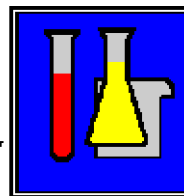
Whaleback (narrow anticline at center of photo) in the abandoned Bear Valley anthracite surface mine of the Reading Anthracite Company, south of Shamokin, Pennsylvania. The narrow anticline plunges to the left; the highwall at left shows a syncline which appears to be almost in line with the anticline's axis. The geology is explained in the *Field Trip Guidebook: The Anthracite Basins of Eastern Pennsylvania*, compiled by Levine and Eggleston for the 1992 Joint ICCP/TSOP meeting. Dots seen in the bedding surface at upper right are ironstone concretions ranging up to approximately 1 meter. Vegetation has grown significantly since the 1992 field trip visited the site. D. Glick photo.



TSOP member Gary Mitchell (directly above exact center of large photo, also enlarged in inset at right) led a summer tutorial two-day field trip for the Consortium for Premium Carbon Products from Coal (CPCPC) in August, 2005. It was attended by chemical engineers, fuel scientists and others from The Pennsylvania State University and West Virginia University. Bituminous coal sites were visited on the first day, and Pennsylvania anthracite region sites on the second, including the type section of the Pottsville formation, an active anthracite surface mine, an underground anthracite mine operated for tourists, and the Bear Valley site.



TSOP
The Society for Organic Petrology



REGISTRATION FORM

BEIJING MEETING, SEPTEMBER 15 – 22, 2006

PARTICIPATING MEMBER'S FULL NAME _____ SEX _____

AGE _____ NATIONALITY _____

TSOP MEMBER NON-MEMBER STUDENT

PRESENT/PAST OCCUPATION _____

ACCOMPANYING MEMBER'S FULL NAME _____ SEX _____

AGE _____ NATIONALITY _____

PRESENT/PAST OCCUPATION _____

RELATIONSHIP WITH PARTICIPATING MEMBER _____

We will send you the invitation letter for visa application, as soon as we receive your registration form.

ACCOMPANYING MEMBERS MAY TAKE PART IN ICEBREAKER, LUNCHESES (FREE OF CHARGE). THE COSTS OF FIELD TRIP AND CONFERENCE DINNER ARE THE SAME AS PAYMENT FOR PARTICIPATING MEMBERS.

Full registration of participating member includes icebreaker, lunch, tea breaks, and abstract.

TSOP member before June 30, 2006	200 USD
TSOP member after June 30, 2006	225 USD
Non-member before June 30, 2006	230 USD
Non-member after June 30, 2006	255 USD
Student	70 USD

Conference dinner, Sept.18, 2006

12USD (another 12 USD
or more paid by
committee)

One-day registration (includes tea break, lunch, abstract) 105 USD

Indicate day: Sept.17, Sunday Sept.18, Monday Sept.19, Tuesday

Pre-meeting field trip: Geology of Western Beijing Jurassic and Permo-Carboniferous Coal Basin, Sept. 15, 2006, includes transport, picnic, supper, field trip guide, Limit: 20 persons, 40 USD

Post meeting field trip: Shanxi field trip: Datong wonderful sights and Antaibao surface mine, Sept. 20-22, 2006, includes 3 breakfasts, 3 suppers, 2 lunches and 1 picnic, field trip guide, limit: 30 persons, 170 USD

Short course: Petrology and geochemistry of coal and non-marine source rocks, Sept. 16, 2006, includes tea, lunch, short course notes, Limit: 30 persons (including 10 students), participating member 70 USD, student 30 USD

Total paid USD, \$ _____

Signature _____ Print Name _____ Date _____

Method of Payment

Your registration plus field trips, short course, dinner fees, together with your accompanying member's field trips, dinner fees can be bank transfer in USD dollars. No credit card is acceptable for the meeting.

Accommodation:

Arriving date _____

Departing date _____

Hotel preference _____

4-star room

3-star room

BOWEN BASIN SYMPOSIUM 2005

THE FUTURE FOR COAL – FUEL FOR THOUGHT

PRE SYMPOSIUM WORKSHOPS

SESSION 1

Understanding and Effective Utilisation of Your Seismic Interpretation : a Practical Guide
Troy Peters, Velseis Processing

Geotechnical Strata Characterisation using Geophysical Logs
Peter Hatherly, University of Sydney

Understanding Isotherms and Gas Content Measurement
Peter Crosdale, Energy Resources Consulting Pty Ltd

SESSION 2

Geology and Structure from Airborne Magnetic Surveys
Renate Sliwa, CSIRO Exploration and Mining

Geological Risk
Mark Berry, CSIRO Exploration and Mining

Highwall Mapping using Photogrammetry
George Poropat, CSIRO Exploration and Mining

Preliminary Program

Wednesday October 12, 2005

9:00am - 10:30 pm Workshops Session 1
11:00am - 12:30 pm Workshops Session 2
12:30pm - 5:00 pm Registration, Welcome & Conference Papers

5:30 pm Welcome Function

Thursday October 13, 2005

8:30am - 9:00 am Registration
9:00am - 5:30 pm Official Opening,
Keynote Address (Frank Van Schagen, CRC).
Conference Papers

7:00 pm Symposium Dinner – Entertainment to be announced

Friday October 14, 2005

9:00am - 5:00 pm Conference Papers

Saturday October 15, 2005

Corporate Golf Day.

E-mail Contact: cngordon@tpg.com.au

Social Functions

Wednesday 12 October 2005

Welcome Cocktails from 5:30pm to 7:30pm.

The welcome function will be held at the Rydges Capricorn Resort “Palms Foyer” outside the main entrance. Drinks and savouries are included in the registration price.

Thursday 13 October 2005

Conference Dinner at the Rydges Capricorn Resort “Lagoon” Restaurant - 6:30pm to 10:30 pm. A live Jazz band will be playing prior to dinner and a live comedy act is booked for after dinner.

Saturday 15 October 2005

Corporate Golf Day at the Rydges Capricorn Resort. Details in a separate flyer.

Accommodation & Day Tours

Accommodation will be at the Rydges Capricorn Resort. A number of day tours have been organised by the resort. Information, registration and contact details for the accommodation and the Day Tours is supplied in a separate document from the resort. Please organise these details with the resort directly, quoting the conference to receive the specials rates and room availability. Telephone: +61 7 4124 9943. Facsimile: +61 7 4125 6833. Website: www.rydges.com.au

Registration

Registration includes attendance at technical sessions, symposium proceedings, morning and afternoon teas, lunches and welcoming functions.

Trade Displays

Approximately 20 industry suppliers have pledged their support and will display state of the art equipment which assists mine geologists to fulfil their role in the operation. .

Contact & Queries

If you have any queries, please contact:

Nick Gordon (Symposium Secretary) on the following:

Ph: 0428186255 e-mail: cngordon@tpg.com.au

