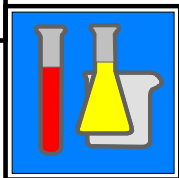




THE SOCIETY FOR ORGANIC PETROLOGY

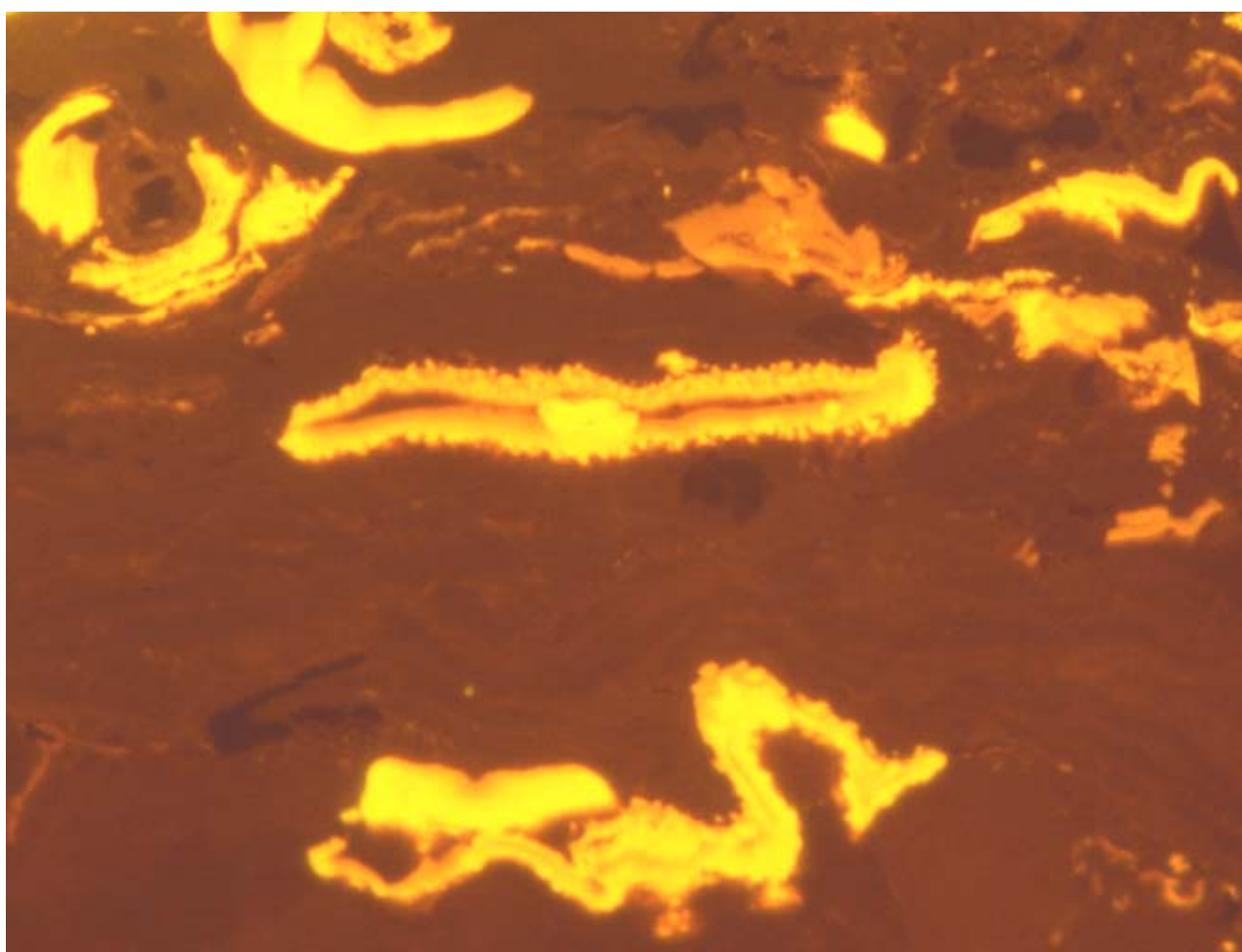


NEWSLETTER

Vol. 20, No.1

March, 2003

ISSN-0743-3816



2003 Meeting Invitation - see page 8
Pre-registration deadline August 1



TSOP
The Society for Organic Petrology



TWENTY-FIRST ANNUAL MEETING

Organic Matter Down Under

Sydney, Australia

27 September – 1 October, 2004

The 21st Annual Meeting of TSOP will be held at the Crowne Plaza Hotel, Coogee Beach, a beach-side conference venue conveniently located with respect to Sydney Airport, the city centre and the University of New South Wales.

Some Conference Themes:

- 7 Non-marine source rocks
- 7 New techniques in organic petrology and geochemistry
- 7 Coal in sustainable development

Provisional Program:

- | | |
|---------------------------|--|
| 7 Monday, September 27 | – Short course, registration, icebreaker reception |
| 7 Tuesday, September 28 | – Technical sessions, TSOP business lunch |
| 7 Wednesday, September 29 | – Technical sessions, conference dinner |
| 7 Thursday, September 30 | – Technical sessions, field trip departure |
| 7 Friday, October 1 | – Field trip: coal geology of the Hunter Valley |

Additional details will be provided as the planning process develops. A formal call for papers will be made during 2003, covering the conference themes together with other advances in coal geology, organic petrology and geochemistry. Sydney, host to the 2000 Olympics, has many attractions for those who can stay a little longer, and a partners' program is being planned to complement the technical activities.

Mark the dates on your calendar now!

Organising Committee:

| | | |
|---------------|---------------|--------------|
| Neil Sherwood | Colin Ward | Lila Gurba |
| Claus Diessel | Adrian Hutton | Joan Esterle |
| Herbert Volk | Harold Read | Tim Moore |

For more information contact:

- | | |
|--|------------------------|
| 7 Neil Sherwood, CSIRO Petroleum: | Neil.Sherwood@csiro.au |
| 7 Colin Ward, University of New South Wales: | C.Ward@unsw.edu.au |

The Society for Organic Petrology Newsletter

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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:

Peter Warwick, TSOP Membership Chair
U.S. Geological Survey
956 National Center
Reston, VA 20192 USA
e-mail: pwarwick@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

| | |
|---|----|
| First Announcement: TSOP 2004, Sydney, Australia | 2 |
| Call for Nominations: 2003 Honorary Member Award | 4 |
| 2005 TSOP Meeting: Louisville, Kentucky | 4 |
| Call for Papers: Hydrogen Fuel from Coal | 5 |
| Atlas of Coal Geology Revision: Photographs Needed | 5 |
| TSOP Research Committee: Coalbed Gas in Low-Rank Coals | 6 |
| Student Travel Assistance for TSOP Meetings | 6 |
| TSOP 2003 Directory | 6 |
| AGI Leadership Forum | 7 |
| Call for Papers: 4 th European Mtg. on Environmental Chemistry | 7 |
| 2003 TSOP Meeting, Washington, DC: | |
| Invitation and Overview | 8 |
| Short Courses | 9 |
| Health Impacts of Coal | 9 |
| Petroleum Source Rocks and Coal in the National Petroleum Reserve in Alaska (NPRA): A Core Workshop | 9 |
| Modes of Occurrence of Trace Elements in Coal | 9 |
| Field Trips | 10 |
| Geology and Energy Resources of the Triassic Basins of Northern Virginia | 10 |
| Tour of the Smithsonian's Natural History Museum Virginia | 12 |
| EAOG Newsletters on the Web | 12 |
| Call for Papers: Organic Geochemistry Symposium, 32 nd IGC | 12 |
| TSOP Past President Muki Associate Editor of AAPG Bulletin | 13 |
| TSOP Nominates Kaplan for AGI Ian Campbell Medal | 14 |
| Elsevier Journal Abstracts and Articles on the Web | 14 |
| Proceedings Volume published in <i>Int. J. Coal Geol.</i> | 15 |
| Publications List and Order Form | 16 |
| Puzzle Solution from issue 19:4 Oilfields | 18 |
| Calendar of Events | 19 |
| Photo Gallery: Miocene Usibelli Group coals, Alaska | 20 |

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Cover: Ornamented spore in the Pennsylvanian Pee Wee seam, Morgan County, Tennessee, USA., fluorescing under blue light illumination, 50x air objective. Spore at center is 85 micrometers in length. Sample PSOC-1471 from the Penn State Coal Sample Bank. Photomicrograph by Gary Mitchell. GDM 84.7

Call for Nominations for the 2003 TSOP Honorary Member Award

Every year TSOP members have the opportunity to make nominations for the TSOP Honorary Membership Award. The Honorary Membership Award is the Society's most prestigious award and is limited to a select few. Honorary Member status acknowledges sustained professional excellence in research, service, or education to the Society. The awardees are formally recognized at the annual meeting, presented with a plaque, and granted a lifetime, dues-free membership in the Society.

Honorary Membership awards are given for three categories:

1. Significant research contributions in organic petrology or related disciplines. Contributions must demonstrate a high degree of original research in organic petrology or related disciplines. To qualify within this category, nominees must possess a sustained record of professional publication and achievement. Contributions (publications, state-of-the-art technologies, or other contributions) must demonstrate international impact.

2. Service Contribution to TSOP: Significant contributions to TSOP in a leadership role that have enabled the Society to stimulate interest and promote research in organic petrology. Various contributions are possible in this category. For example, contributions may be related to educational activities, administrative duties, or the development of TSOP as a society. Contributions must demonstrate a high degree of dedication and leadership in overall support of the goals of TSOP.

3. Education Contribution: Significant contributions as a teacher in organic petrology or related disciplines. To qualify in this category, nominees must have demonstrated a high degree of dedication and significant impact as a teacher of organic petrology or related disciplines.

A nominee must be sponsored by a TSOP member, who will supply a letter of nomination (or a brief vita) detailing how and why the nominee qualifies for the award. Selection of the award recipient will be done by committee, whose chair is the current TSOP Vice President. This year's committee consists of Walter Pickel, Colin Ward, Joe Curiale, and Peter Warwick (Chair). Please submit nominations by July 15, 2003 to:

Peter D. Warwick
Chair of the TSOP Honorary Membership
Committee
U.S. Geological Survey
956 National Center
12201 Sunrise Valley Drive
Reston, VA 20192

Tel: (703) 648-6469

Fax: (703) 648-6419

Email: pwarwick@usgs.gov

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2005 Meeting Planned for Louisville, Kentucky

The 2005 **TSOP** meeting will be held in Louisville, Kentucky. Exact meeting dates have not been determined; dates, venue and additional activities are being evaluated and should be announced soon. Maria Mastalerz and Jim Hower will be co-conveners of the meeting.

Not a member of TSOP?

Benefits include printed Newsletter, Abstracts volume, 2003 meeting discount, and journal subscription discounts. Download an application form from our web site now!

www.tsop.org/tsopjoin/

Atlas of Coal Geology Photographs Needed - Your Participation Invited!

By Jim Hower

Several years ago, The Society for Organic Petrology and the Energy Minerals Division of the American Association of Petroleum Geologists produced the compact disk Atlas of Coal Geology (<http://www.tsop.org/cdatlas.htm>). The two societies are now launching an effort to produce a revised and expanded edition of the CD atlas. For the petrology section, I want to expand the coverage of non-Pennsylvanian/non-US coals. To do this, I need your help. Since my research is somewhat limited to Pennsylvanian coals from the eastern US, I am asking for contributions of slides, photos, or high-resolution (at least 300 dpi) images of macerals and minerals in association with macerals. Accompanying notes for all pictures should include reference to the name and age of the coal, the location (as specific as possible), the rank (either as vitrinite reflectance or the ASTM category), the laboratory sample number (not necessary, but if publications have referred to the sample, it is a useful addition to the information), and a description of the macerals. If there are any suggestions for annotation of the photos, please include a copy of the photo with the marked macerals/minerals/etc. Additional photos needed include megascopic pictures of coal.

Although we have no set firm deadlines for this project, I would appreciate assistance as soon as possible. All sources will be acknowledged in the final product. Please contact me:

Jim Hower
University of Kentucky
Center for Applied Energy Research
2540 Research Park Drive
Lexington, KY 40511

859-257-0261
859-257-0360 (FAX)
hower@caer.uky.edu
<http://www.caer.uky.edu/>

Call for Papers:

Technical Aspects of Generating HYDROGEN FUEL FROM COAL

A Special Volume of the
*International Journal
of Coal Geology*

Guest Editors T.A. Moore and L.W. Gurba

Within 20 to 30 years, Hydrogen Fuel will be common. What role will fossil fuels, especially coal, play in the medium to long-term generation of hydrogen? What are the technical aspects related to coal as a source of hydrogen?

Papers are being requested which address...

- Effects of coal chemistry
 - The role of coal maturation
 - Compositional controls (both organic and inorganic)
 - Gasification issues
 - Resource assessment and world wide locations
- ... in relation to hydrogen generation from coal.

If you are interested please submit a TITLE, LIST OF AUTHORS, and SHORT PARAGRAPH on the proposed article. The dates for this publication are:

1. Submission of Titles: September 2003
2. Submission of Manuscripts December 2003

Please send an indication of interest and all submissions to:

Dr. Tim A. Moore
Solid Energy NZ
P.O. Box 1303
Christchurch,
New Zealand

Ph. +64 3 353 0100
Fax. +64 3 353 0116
Email tim.moore@solidenergy.co.nz

TSOP Research Committee Report Coalbed Gas in Low-rank Coals Progress Report – March 2003

The initial goal of the TSOP *Coalbed Gas in Low-rank Coals* Working Group is to identify and describe the unique procedures and methods that need to be utilized when testing and evaluating coalbed methane resources in low-rank coal basins.

Since approval of this TSOP working group in August, 2003, at the TSOP incoming council meeting in Banff, the following results can be reported:

1. In October 2002, Peter Warwick met with a newly formed ASTM (American Society for Testing and Materials) subcommittee whose propose is to evaluate coalbed methane desorption and adsorption techniques. Jim Luppens (formerly with Phillips Petroleum, and now with USGS) chaired the committee. The ASTM committee agreed to work with the TSOP *Coalbed Gas in Low-rank Coals* Working Group to jointly evaluate what could be done to standardize coalbed gas analytical techniques. The ASTM group met again in May in Kansas City to discuss these issues. The general consensus of the group was to obtain coal gas industry participation (the data users), along with that of the analytical labs, to propose updated guidelines for the desorption and adsorption techniques employed in this area of research.

2. The US Department of Energy has initiated a CO₂ coal adsorption round robin. Preliminary efforts of the DOE round robin are available at: <http://coal-seq.com/Proceedings2003/Goodman.pdf> The TSOP working group will watch this study, and use the results to possibly plan a similar study for methane adsorption.

3. Literature on gas desorption in low-rank coals is being collected. This will be critically reviewed by the Committee to present recommendations regarding the methodology.

Student Travel Assistance for TSOP Annual Meetings

Thanks to a generous grant from The Pennsylvania State University's Energy Institute, TSOP is able to offer travel assistance of up to \$1,000 for selected students to participate in TSOP annual meetings. We are asking students to submit a letter of request for funding briefly describing how attending the TSOP meeting in Washington D.C., September 21-24, 2003, will enhance their education. The letter should be no more than two pages and should be accompanied by a letter from a faculty member verifying that the applicant is a full time student and that there are limited financial resources available for the student to attend the conference.

The letters should be sent to Robert B. Finkelman, U.S. Geological Survey, Mail Stop 956, Reston, VA 20192, USA by July 31, 2003.

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TSOP 2003 Directory

The 2003 TSOP Membership Directory was printed in June and is enclosed with this Newsletter. Please notify the TSOP Membership Committee when you move, or if your directory information is incorrect. The Committee will update the Society's mailing lists and submit a notice to the Newsletter.

Please send any changes and/or corrections to:

Peter Warwick, TSOP Membership Chair
U.S. Geological Survey
956 National Center
Reston, VA 20192
USA

Phone: 703-648-6469
Fax: 703-648-6419
E-mail: pwarwick@usgs.gov

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President-Elect Attends AGI Leadership Forum

On May 19th and 20th, TSOP President-Elect Bob Finkelman represented TSOP in the American Geological Institute's Leadership Forum held in Washington, D.C. The theme of this year's Forum was "Improved Effectiveness Through Increased Cooperation."

Most discussions focused on how the geoscience community can get its message across. This has to be done at every level from making the children in the K-12 grades aware of geoscience, to attracting the best students to geology in colleges and universities, to educating the public, and finally to getting positive attention from the Decision Makers.

Enrollment in geology is down from 1980 highs but may have leveled off. Employment is steady, but during the past 15 years has shifted out of the petroleum sector to academia, government, and environmental consulting.

There were some concerns that the universities are not preparing the students for the jobs that are available. The geotechnical and geologic engineering companies cannot fill positions, yet many graduates with classic academic training cannot find jobs. In many programs U.S. graduate students are an endangered species. Some 30 % of graduate students and 40 % of doctoral candidates are foreign nationals. In some schools more than 90 % of the petroleum engineering students are foreign nationals!

AGI has several activities to strengthen education and training in the geosciences. They provide workshops for professional development including a series on Emerging Theme Workshops. A workshop on Medical Geology is planned. They are sponsoring an Earth Science Week – October 12-18, 2003. Information kits are available free of charge for member societies. A batch has been requested for TSOP.

There was an impassioned plea for the AGI to request that Congress add money to the DOE budget to enhance oil and gas research. In principle, this would be desirable but the fiscal reality is that any increase in funds for oil and gas research would result in a decrease in funds for other research activities, such as coal. There was no consensus on this issue, AAPG and a few others wanted to take a strong proactive stance. Others argued that the AGI should not promote one issue at the expense of others and that we should be arguing for increased support for all geoscience activities. In the end, each society will go its own way.

Many of the other societies are facing the same issues as TSOP: dwindling membership rolls; tighter budgets; and problems in providing services to an increasing proportion of members outside of North America.

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Call for Papers:

4th European Meeting on Environmental Chemistry Plymouth, England

The 4th European Meeting on Environmental Chemistry (EMEC4) will be held in Plymouth from 10-13th December 2003. The meeting is being hosted by the University of Plymouth on behalf of the Association of Chemistry and the Environment, and will facilitate the communication of research from a range of exciting areas of environmental chemistry. Plymouth, with its strong tradition of excellence in this field, is the perfect setting for such an event.

Information regarding the Conference as well as the Call for Papers is available from the Conference web site, www.emec4.org.uk

Y

Gold leaves adorn the elm tree in front of the North Portico of the White House. English and American boxwoods flank the entrance. (White House photo by Tina Hager.)



**Invitation
to
attend
the**

2003 Annual Meeting of The Society for Organic Petrology

by the 2003 Annual Meeting Organizing Committee

The 2003 The Society for Organic Petrology Annual Meeting organizing committee invites you to attend the 20th Annual Meeting of the Society which will be held at the Hyatt Arlington Hotel in Arlington, Virginia, September 21-24, 2003. The hotel is conveniently located near downtown Washington, D.C., has easy access to the Washington-area Metro subway system, and is within walking distance to Georgetown, a shopping and restaurant district of D.C. Washington is an exciting city and has a lot to offer to visitors. We hope that you will come and stay several extra days to visit the museums and historic places in and near the Nation's capitol. We are planning social activities for spouses. See the article on page 6 concerning availability of travel funds for students. Please check the web site <http://www.tsop.org/mtgdc.htm> for meeting details. **Pre-registration ends August 1.**

This is the twentieth anniversary meeting of the Society and a special program has been arranged. The meeting will include technical oral and poster sessions as well as short courses on petroleum systems, source rocks, coal and coalbed gas. The highlight of the meeting is the ***Ron Stanton Coal Characterization Session***. During this session, speakers will present the latest research on a range of coal-related topics. Also planned is an ***Energy and Government Session***. Research papers presented at the meeting will be published in the International Journal of Coal Geology. An award will be given for the best overall student paper presented at the meeting.

In addition to the technical program, three short courses have been arranged. The short courses (described below) focus on the health impacts of coal use, the modes of occurrence of trace elements in coal,

and a core workshop for petroleum source rocks and coal occurrence in the National Petroleum Reserve in Alaska (NPRO). Two field trips are planned: one to the Smithsonian National Natural History Museum, and the other to the Triassic basins near Richmond, Virginia. Meeting details and registration information can be found at the following web address: <http://www.tsop.org/mtgdc.htm>

The 2003 organizing committee looks forward to seeing you at the meeting!

Meeting Short Courses

Health Impacts of Coal: Should We Be Concerned?

This short course will sort out the facts and fallacies that have been interwoven in this sensitive issue. We will explore questions such as: Are there confirmed cases of health problems associated with coal use? Under what conditions would coal present a threat to human health? What properties of coal are most dangerous? What can the coal science community do about it?

Limit:

25 participants.

Petroleum Source Rocks and Coal in the National Petroleum Reserve in Alaska (NPRO) - A Core Workshop

The USGS archives cores from about 60 exploration wells that have been drilled in and near NPRO during the past 50 years. This workshop will feature cores selected from that archive to illustrate key attributes of the main petroleum and coal systems of the region. Petroleum systems with principal source rocks in the Triassic (Shublik), Jurassic (Kingak), and Cretaceous (HRZ), and coal systems in the Mississippian (Endicott) and Cretaceous (Nanushuk) will be emphasized. Limit: 30 participants.

Modes of Occurrence of Trace Elements in Coal

This short course will focus on modes of occurrence of trace elements in coal and the



Geologists study cores selected to illustrate key attributes of the main petroleum and coal systems of the National Petroleum Reserve in Alaska. Photo by Dave Houseknecht.

importance of trace elements in the overall context of coal quality. Emphasis will be placed on the elements that are of technological, economic, and environmental significance. We will review the current state of knowledge and describe state-of-the-art methods for quantifying element modes of occurrence in coal.

Limit: 25 participants.

Field Trips

Geology and Energy Resources of the Triassic Basins of Northern Virginia

The TSOP field trip (September 24, all day) will review the geology of the Richmond and Taylorsville Basins in the Triassic coal mining district near Richmond, Virginia. Triassic-age coal was discovered and first mined for domestic needs in this area by



Sedimentary breccia with clasts of Catoctin metabasalt (mb) and quartz (q) exposed in the Scottsville Basin along James River south of Howardsville, Nelson County. The breccias formed when cobbles and boulders were deposited in rift basins approximately 210 million years ago during the Triassic Period. Knife- 15 cm (6 inches) in length. Photo: C.M. Bailey & C. Roberts, College of William and Mary.



Above and right (page 11): Faulted strata adjacent to the border fault zone along the western edge of the Richmond Triassic Basin, in Luck Stone's Boscobel quarry near Manakin, Virginia. The quarry has been operating for about 150 years. Photos by Robert C. Milici.

Tour of the Smithsonian's Natural History Museum

On Wednesday, September 24, we are planning a half-day guided tour of the Smithsonian's Natural History Museum located on the Mall in Washington, D.C. This is your chance to see parts of the museum and collections not accessible to the general public. Metro transportation tickets will be provided to registrants.

The collections staff will provide a 1-2 hour tour of the Museum's fossil collections on the morning of Wednesday, September 24, 2003. Collections examined will be at the discretion of the tour guides, but we will probably tour the invertebrate, vertebrate, and possibly paleobotany areas. Limit: 10 participants.



Smithsonian National Museum of Natural History dinosaur specialist Mike Brett-Surman among the collections. Photo by Chip Clark:
<http://www.mnh.si.edu/highlight/triceratops/> Y

European Association of Organic Geochemists Newsletters Available on the Web

Recent issues of the EAOG Newsletter are available on the web in PDF format at
<http://www.eaog.org/newsletters/newsletters.html>

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Call for Papers: Organic Geochemistry Symposium at 32nd IGC, Florence

The 32nd IGC - International Geological Congress, August 20-28, 2004, in Florence, Italy, will include General Symposium G-04.05, Organic Geochemistry. Symposium organizers Luiz Trindade (Petrobras) and Paul Farrimond (University of Newcastle) invite oral and poster presentations covering any areas of Organic Geochemistry, including Petroleum Geochemistry, Environmental Geochemistry, Geochemical Processes and Analytical Developments.

First and Second Circulars for the Congress are available at the 32nd IGC web site at
<http://www.32igc.org/home.htm>

Abstracts will be considered between May 1, 2003 and January 10, 2004, and must be submitted on-line through the "Abstract Submission" section of the web site. Detailed information about abstract submission are available at <http://www.32igc.org/circular-scientific02b.htm>

Further information contact the organizers, Luiz Trindade luizt@cenpes.petrobras.com.br or Paul Farrimond Paul.Farrimond@NEWCASTLE.AC.UK

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Prasanta K. Mukhopadhyay (Muki), Past TSOP President, Elected as Associate Editor, AAPG Bulletin

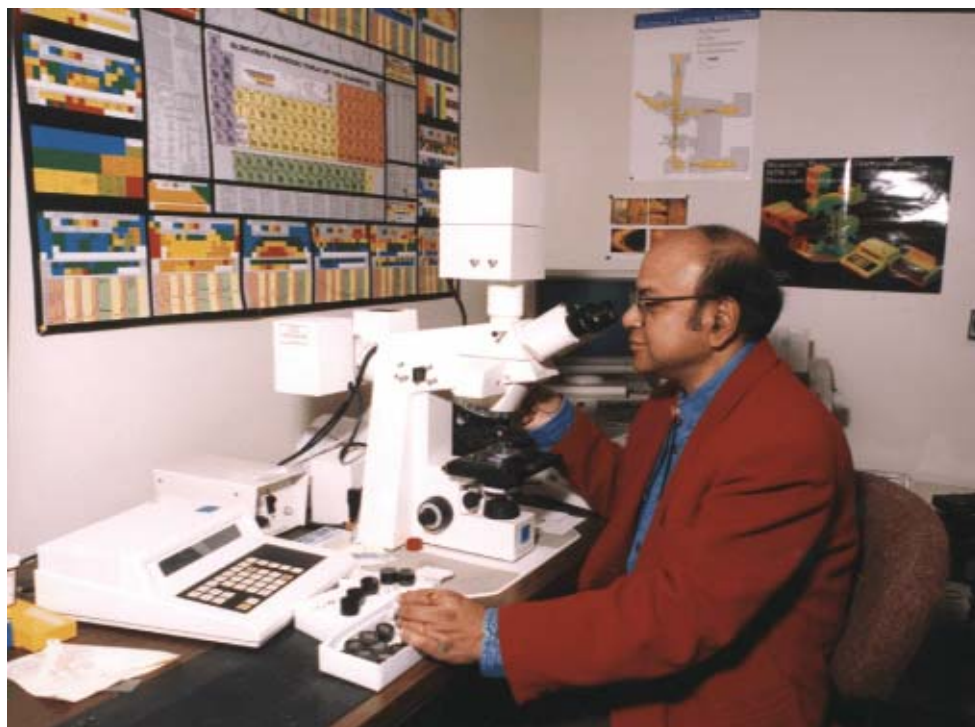
Prasanta K. Mukhopadhyay, or “Muki,” has recently been elected by the AAPG (American Association of Petroleum Geologists) Editorial Board as one of the Associate Editors for the AAPG Bulletin. This voluntary assignment of Associate Editorship for Muki is of three years tenure, from January 2003 to December 2005. Muki is one of the longest-standing members of TSOP (since 1985) and an Active Member of AAPG since 1982. He was elected by the TSOP membership to serve as President-Elect for 1999-2000 and President for 2000-2001. He had earlier served TSOP as General Chairman of the Organizing Committee for the 1998 Annual Meeting in Halifax, in conjunction with the Canadian Society for Coal Science and Organic Petrology. He was also TSOP Vice-President, 1993-1994; Nominating Committee Chairperson, 2001-2002; and Ballot Committee Chairperson, 1990-1991 and 1985-1986). He is currently a member of the Research Committee of AAPG and TSOP’s Representative for the Member Society Council of the American Geological Institute (AGI).

Muki has thirty-two (32) years of research experience in petroleum and coal exploration including the application of organic petrology/geochemistry and petroleum systems analysis in basin evaluation, coalbed methane, and application of coal/organic petrology and geochemistry in environmental geosciences. He did his Ph.D. in Coal Sciences (coal facies and maturation) and Post-Doctoral Research in Organic

Petrology and Petroleum Geochemistry. Muki is currently the President of his company Global Geoenergy Research Limited and an Adjunct Professor at the Earth Sciences Department of the Dalhousie University, Halifax, Nova Scotia, Canada.

Muki has worked as Research Scientist or Research Associate in various research organizations: Geological Survey of India; Oil and Natural Gas Commission (ONGC), India; Institute for Petroleum and Organic Geochemistry (ICH-5), Kernforschungsanlage GmbH, Juelich, Germany; Bureau of Economic Geology, The University of Texas at Austin, Austin, Texas, USA; Geofuel Inc., Sydney, Nova Scotia, Canada.

Muki has published 60 journal articles, written innumerable reports and abstracts, and edited four publications (one book and three volumes) for the American Chemical Society and Elsevier Sciences. Y



Muki enjoying his work at his company office in Halifax.

Nomination of Prof. Isaac R. Kaplan for AGI's Ian Campbell Medal

As an AGI Member Society, TSOP is invited each year to submit nominations for awards given by AGI. TSOP has nominated Isaac R. Kaplan, long-time TSOP member and internationally recognized organic geochemist, for the Ian Campbell Medal. The nomination text follows.

Prof. Kaplan deserves this nomination because he is one of most outstanding scientists and most knowledgeable professors in the field of geochemistry in the world. He has pioneered the field of Forensic Geochemistry, a forensic science that has tremendous implications in fingerprinting a hydrocarbon spill in any natural environment (example: Exxon Valdez). He has also made some outstanding contributions in petroleum geochemistry for hydrocarbon exploration, especially in the field of stable carbon isotope geochemistry and pyrolysis-GC/MS of dispersed organic matter in sedimentary environments. Both the American Association of Petroleum Geologists (AAPG) and the Geological Society of America (GSA) have already granted him some of their highest honors. Finally, another highly important contribution of Prof. Kaplan has been to develop some outstanding students in the field of petroleum and environmental geosciences; they are currently doing pioneering research in various universities, government departments, and various oil companies throughout the world (especially within the USA).

Short Biographical Data for Prof. I. R. Kaplan

Prof. Kaplan received his Ph.D. in Biogeochemistry from the University of Southern California, Los Angeles in 1961. He is currently an Emeritus Professor of Geology and Geochemistry at UCLA, having joined the university in 1965 as Associate Professor. He has published over 300 papers on planetary, environmental, sedimentary and petroleum geochemistry and has been the Associate Editor for several professional journals. He was the principal investigator for NASA in the search for organic compounds in Apollo 11 lunar samples. He has served on a number of advisory committees for the State of California and Federal Agencies. He is the recipient of

numerous medals including the Treibs Medal (highest honor in Organic Geochemistry) from the Geochemical Society and the President's Award in Environmental Geology from the American Association of Petroleum Geologists. He founded Global Geochemistry Corporation, later acquired by Zymax Forensics of California. Dr. Kaplan has served as an expert witness at trials, representing both plaintiffs and defendants in many cases of hydrocarbon spills in various natural environments. Last year, GSA held a special session in honor of Prof. Kaplan, which was organized by his previous students.

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Elsevier Journals: Full Text and Abstracts Now on the Web

Elsevier has announced online ScienceDirect Backfiles for its Earth and Planetary Sciences journals. They report, "In January 2001, Elsevier began to digitize its entire journal list prior to 1995, back to Volume 1, Issue 1 of every title. The full-text of these electronic backfiles will be available through ScienceDirect and are fully searchable with HTML summaries and reference lists, enabling direct linking to cited and citing articles on ScienceDirect."

Access to **abstracts** of all Elsevier articles -including Earth & Planetary Sciences Backfiles - is **free** for everyone. The access to the **full text** articles of the Backfiles is arranged via your organization's librarian and Anna Ypma, Marketing Manager for Earth & Planetary Sciences, Elsevier. For further information about the Earth & Planetary Sciences Backfiles, or for access to abstracts or text, visit <http://earth.elsevier.com>.

Proceedings volumes from each TSOP annual meeting have been published in the Elsevier journals International Journal of Coal Geology (1994 to present and 1984 meetings) <http://www.elsevier.com/locate/coal> and Organic Geochemistry (1985-1993 meetings) <http://www.elsevier.com/locate/orggeochem>. Thus the **full text of all TSOP Proceedings volumes** is now available on-line to those at participating institutions, and all abstracts are available to everyone. See the contents of the most recent volume (54:1-2) at right (page 15). Y

**International Journal of Coal Geology 54:1-2 Now Available
Proceedings Volume for
TSOP/ICCP Session, 2001, Copenhagen and
TSOP 18th Annual Meeting, 2002, Houston**

International Journal of Coal Geology

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Volume 54, Issues 1-2, Pages 1-164 (April 2003)

Papers from the TSOP/ICCP session, 53rd ICCP Meeting 2001, Copenhagen, Denmark, and from the 18th TSOP Meeting 2002, Houston, TX, USA

Copenhagen and Houston

Edited by H.I. Petersen, C.E. Barker and C.R. Robison

1. **The 53rd ICCP meeting, including a 1-day TSOP session Copenhagen, Denmark, 2001, Page 1**
Henrik I. Petersen and Charles Barker
2. **Thermal history model for the South Central Graben, North Sea, derived using both tectonics and maturation, Pages 3-19**
A. D. Carr
3. **Organic matter composition and distribution through the Aptian?x2013;Albian lacustrine sequences of the Araripe Basin, northeastern Brazil, Pages 21-40**
V. H. Neumann, A. G. Borrego, L. Cabrera and R. Dino
4. **Coalbed gas in the Mecsek Basin, Hungary, Pages 41-55**
Edwin R. Landis, Timothy J. Rohrbacher, Charles E. Barker, Bela Fodor and Gizella Gombar
5. **Pliocene lignites from Apofysis mine, Amynteo basin, Northwestern Greece: petrographical characteristics and depositional environment, Pages 57-68**
A. Iordanidis and A. Georgakopoulos
6. **Scanning electron microscope studies of the Philippi peat (NE Greece): initial aspects, Pages 69-77**
S. Kalaitzidis and K. Christanis
7. **Fluorescing macerals in South African coals, Pages 79-94**
Krystyna J. Kruszewska
8. **Relationship between petrographic and geochemical characterisation of selected South African coals, Pages 95-114**
Monika J. Fabiaska and Krystyna K. J. Kruszewska
9. **Textural transformation of thermally treated anthracites, Pages 115-123**
S. Pusz, B. K. Kwieciska and S. Duber
10. **Vitrinite reflectance property change during heating under inert conditions, Pages 125-136**
J. Komorek and R. Morga
11. **The 18th TSOP Meeting, Houston, Texas, 2002, Page 137**
Cole Robison
12. **Hydrocarbon shows and source rocks in scientific ocean drilling, Pages 139-154**
B. J. Katz
13. **Aspects of hydrocarbon charge of the petroleum system of the Yamal Peninsula, West Siberia basin, Pages 155-164**
B. J. Katz, C. R. Robison and A. Chakhmakhchev
14. **Editorial Board, Page iii**

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| 2. | <i>Fluorescence - microscopical changes of liptinites and vitrinites during coalification and their relationship to bitumen generation and coking behavior</i> , TSOP Special Publication No. I (English translation by Neely Bostick, without photomicrographs) M. Teichmüller, 1984 | \$ 5 |
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| 14. | <i>Energy & Fuels</i> , ACS symposium on kerogen/macerals; Vol. 8, No. 6, 1994 | \$10 |
| 15. | 12th TSOP Meeting Field Trip Guidebook, The Woodlands, TX, 1995 | \$ 5 |
| 16. | <i>Organic Geochemistry</i> , 11th TSOP Meeting, Jackson, WY, 1994; Vol. 24, No. 2, 1996 | \$35 |
| 17. | <i>International Journal of Coal Geology (IJCG)</i> , 12th TSOP Meeting, The Woodlands, TX, 1995; Vol. 34, Nos. 3-4, 1997 | \$15 |
| 18. | IJCG, 13th TSOP Meeting, Carbondale, IL, 1996; Vol. 37, Nos. 1-2, 1998 | Sold Out |
| 19. | IJCG, Special Issue: Appalachian Coalbed Methane; Vol. 38, Nos. 1-2, 1998 | \$20 |
| 20. | IJCG, 14th TSOP Meeting, Lexington, KY, 1997; Vol. 39, Nos. 1-3, 1999 | \$25 |
| 21. | IJCG, Special Issue: Applied Topics in Coal Geology; Vol. 41, Nos. 1-2, 1999 | \$25 |
| 22. | IJCG, 15th TSOP Meeting, Halifax, Nova Scotia, 1998; Vol. 43, Nos. 1-4, 2000 | \$25 |
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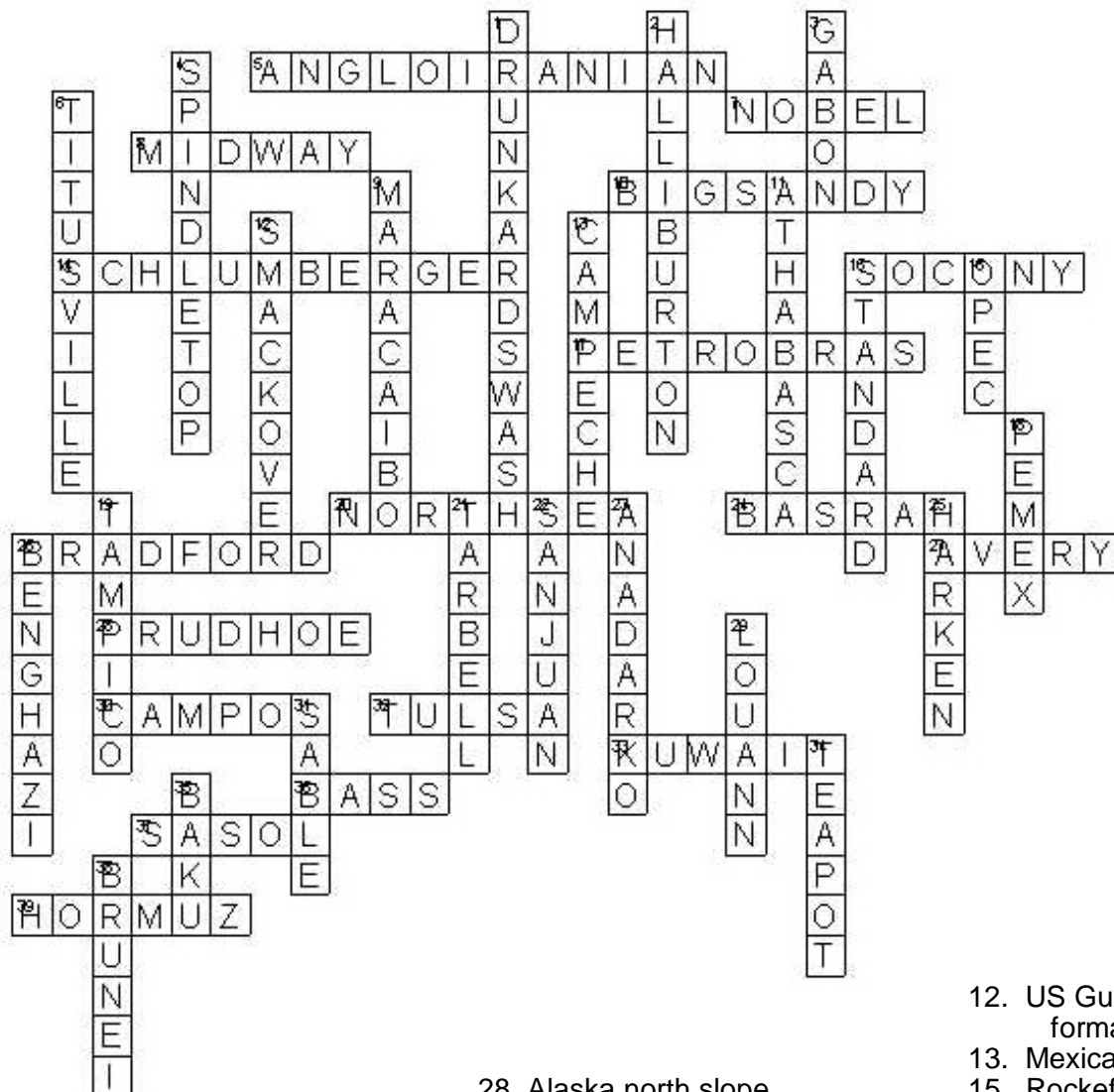
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Solution to last issue's puzzle

OILFIELDS OF THE WORLD

by an anonymous contributor



ACROSS

5. BP-Amoco ancestor
7. Family of oil, explosives & prizes
8. California field
10. Central Appalachian gas field
14. Well-logging service company
15. Exxon-Mobil predecessor
17. Brazilian company
20. Multi-national European field
24. Iraqi oil field city
26. New York / Pennsylvania oil field
27. Louisiana island known for Tabasco sauce

28. Alaska north slope
30. Brazilian basin
32. Home of AAPG
33. Megagiant, object of 1991 war
36. Australian strait
37. South African coal to oil
39. Strategic strait

DOWN

1. Utah CBM field
2. VP Cheney's former company
3. West African oil producing country
4. East Texas gusher
6. Site of Col. Drake's well
9. Venezuela lake
11. Alberta tar sands

12. US Gulf Coast Jurassic formation
13. Mexican gulf
15. Rockefeller's company
16. Cartel of oil-producing countries
18. Mexican national company
19. Mexican oil field
21. Standard Oil "biographer"
22. New Mexico CBM field
23. Oklahoma basin
25. George W. Bush's former company
26. Libyan oil field city
29. Gulf of Mexico salt formation
31. Nova Scotian island
34. Dome of Harding administration scandal
35. Caspian city
38. Southeast Asian sultanate

Calendar of Events

2003

August 10 - 16, 2003: 55th Annual Meeting of ICCP, The International Committee for Coal and Organic Petrology, Utrecht, The Netherlands.

See <http://www.nitg.tno.nl/eng/55iccp.shtml>

August 10 - 16, 2003: XV International Congress on Carboniferous and Permian Stratigraphy (XV ICC-P), Utrecht, The Netherlands. Theme: 'Permo-Carboniferous around the Southern North Sea Basin'. See <http://www.nitg.tno.nl/eng/iccp.shtml>

August 10-12, 2003, Silver Jubilee Anniversary meeting of the Northeastern Science Foundation, (affiliated with Brooklyn College and Graduate Center of New York) Troy, New York. Including: Oil and Gas Exploration in Northeastern North America and Dolostone as an Exploration Target. Contact: Prof. Dr. Gerald M. Friedman, Distinguished Professor of Geology, Brooklyn College and Graduate Center of CUNY, Northeastern Science Foundation, 15 Third St./PO Box 746, Troy NY 12181-0746, USA

Email: gmfriedman@juno.com Fax 518-273-3249
Phone 518-273-3247

<http://us.geocities.com/northeasternscifdn>

September 7-11, 2003 226th ACS National Meeting
New York, New York, including symposia:

Geochemistry Division

CO₂ sequestration: advanced technologies for predicting and monitoring isolation performance

<http://membership.acs.org/g/geoc/upcoming.html>

Division of Fuel Chemistry

Environmental Issues in Fossil Fuel Utilization
(Trace Metals, PM, PAHs)

<http://oasys.acs.org/acs/226nm/fuel/program.html>

Sept. 8 -12: 21st International Meeting on Organic Geochemistry, Kraków, Poland. Official Conference of the European Association of Organic Geochemists. See <http://www.imog.agh.edu.pl/>

Sept. 15 - 19, 2003: 20th International Pittsburgh Coal Conference, Westin - Convention Center in Pittsburgh, PA. <http://www.engrng.pitt.edu/~pccwww/>

Sept. 21 - 24, 2003: 20th Annual TSOP Meeting, **TSOP 2003**, Washington, D.C. Area (Arlington, Virginia, USA). See page 8 and <http://www.tsop.org/mtgdc.htm>

October 20 - 22, 2003: International Ash Utilization Symposium, Lexington, Kentucky, USA. See <http://www.flyash.org>

Nov. 2-5, 2003: Geological Society of America Annual Meeting and Exposition, Seattle, Washington. Including Topical Session 119, Revisiting the Biogeochemistry of Black Shales and Oxygen-Deficient Marine Environments. <http://www.geosociety.org/meetings/2003/>

2004

Sept. 27 - Oct. 1, 2004: 21st Annual TSOP Meeting, **TSOP: Organic Matter Down Under**, Sydney, Australia. See page 2 and <http://www.tsop.org/mtgsyd.htm>

2005

22nd Annual TSOP Meeting,, Louisville, Kentucky, USA. Dates to be announced.

Photo Gallery



Natural badlands exposure of the Miocene Usibelli Group near Healy, Alaska. Six subbituminous coal seams in the Suntrana Formation (center) have an aggregate thickness of >125 feet and are mined near this site at the only active commercial coal mine in Alaska. In general, the coals average >7000 Btu/lb, 25-30% moisture, and < 0.2% total sulfur. The overlying Lignite Formation seams (background, right) are not mined due to an overall low thickness and higher ash content. The coals are mostly used to produce electricity for Fairbanks, Alaska, although historically they have been marketed to Japan and South Korea. Age-equivalent coal measure strata in the Cook Inlet, Alaska, are an actively explored and producing coalbed methane province. Photo by Tim White.