



THE SOCIETY FOR ORGANIC PETROLOGY



NEWSLETTER

Vol. 35, No. 1

March, 2018

ISSN 0743-3816

35th TSOP Annual Meeting

August 17 – 22, 2018
Beijing, China



Summer Palace, Beijing, China.

TSOP Meeting Website (<http://tsop2018.org/>)

TSOP Annual Meeting

August 17 – 22, 2018
Beijing, China

<http://tsop2018.org/>

CALL FOR PAPERS
Abstracts Due: June 15, 2018

See http://tsop2018.org/index.php/Home/Index/1st/wcat_id/15 for details

Organizing Committee:

Shifeng Dai, Yuegang Tang, Xibo Wang, Lei Zhao, Shaoqing Wang, Qiang Wei

Host Organizations:

China University of Mining and Technology, Beijing.
China University of Mining and Technology, Jiangsu.

Conference Venue:

Xijiao Hotel, Haidan District, Beijing (<http://www.xijiao-hotel.com.cn/>)

Field Trip:

August 20th & 21st, 2018. Wulantuga Coal-hosted Ge ore deposit, Xilinhot City, Inner Mongolia Autonomous Region.

Coal Courses:

August 15-17th, 2018. Coal Characterization, Utilization and Impact. See <http://tsop2018.org/Public/Uploads/files/2017-12-11/5a2dea4109001.pdf> for details.

The Society for Organic Petrology

TSOP is a society for scientists and engineers involved with coal petrology, kerogen petrology, organic geochemistry and related disciplines. The Society organizes an annual technical meeting and field trips; sponsors research projects; provides funding for graduate students; and publishes a web site, a quarterly Newsletter, membership directory, annual meeting program and abstracts, and special publications. Members are eligible for discounted subscriptions to the Elsevier journals *International Journal of Coal Geology* and *Review of Palaeobotany and Palynology*. Subscribe by checking the box on your dues form, or using the form at www.tsop.org. For the best prices on subscriptions to AGI's *Earth*, see their web site at www.geotimes.org/current.

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

The Society for Organic Petrology Newsletter

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GUIDELINES:

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

Contact the Editor:

Rachel Walker
e-mail: drachelwalker@gmail.com

Address Changes

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

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

The TSOP Newsletter is published quarterly by The Society for Organic Petrology and is distributed to all Society members as a benefit of membership.

Membership in the Society is open to all individuals involved in the fields of organic petrology and organic geochemistry. For more information on membership and Society activities, please see:

www.tsop.org

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

Newsletter Submission Deadlines

June Issue: June 5th, 2018
September Issue: Sept. 5th, 2018
December Issue: Dec. 5th, 2018
March Issue: March 5th, 2019

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member society of



Institutional/Corporate Memberships



We'd like to make members aware that membership in TSOP is also open to any organization having an active scientific interest in organic petrology or related fields. TSOP especially encourages institutions to join at the special **institutional rate of \$75/yr** and help support the goals of the Society. See the website for details: www.tsop.org/join_TSOP.html



IS ON



www.facebook.com/OrganicPetrology

TSOP Membership Dues



TSOP dues payments are due on or before **January 1st each year** and we encourage you to check your dues status and make your payment so that you can continue your TSOP membership and support the society and its work.

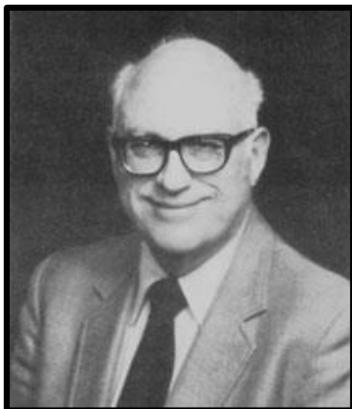
Our Dues Prepayment Incentive can save you time and the hassle of arranging your yearly payment. When you prepay your dues four years in advance at the regular rate of \$25/yr we will give you the fifth year free!

We encourage members to use our convenient online dues payment system. You can use it to pay by credit card, check (US Members), money order or credit card.

You can login at www.tsop.org/mbrsonly and select 'Online dues payment' or go to www.tsop.org/dues and access the online form without logging in.

Please note that credit card payment processing is via PayPal and you don't need a PayPal account to use it. If you want to use a dues form, a copy of this year's form can be downloaded from the website by following the 'Members only->Dues' links from the main page (www.tsop.org).

Thank you for your interest and support of TSOP and we look forward to a renewal of your TSOP membership.



**John Castaño
Honorary Membership Award
Call for nominations
2018**

Deadline: May 31, 2018

TSOP members are invited to nominate the scientist of your choice for the 2018 John Castaño Honorary Membership Award, The Society for Organic Petrology's highest honor (www.tsop.org/honmem.htm). The award acknowledges distinction in a scientific discipline of significance to the Society, in recognition of contributions in research, service to TSOP, or education.

The John Castaño Honorary Membership conveys life membership in the Society. It is named in honor of John Castaño, one of our most active Houston-based founding members. John served as inaugural Vice-President, and later, as President of TSOP. He was an organizer of three TSOP meetings in the Houston area, and was made an Honorary Member in 1995. John served TSOP in many capacities until his death in 1997; a memorial article was published in the June 1997 issue of the TSOP Newsletter.

If you would like to suggest a candidate for the 2018 Castaño Honorary Membership Award, **please submit a letter of recommendation and a brief vita of the nominee to:**

Dr. Paul Hackley
U.S. Geological Survey,
12201 Sunrise Valley Dr MS 956,
Reston VA 20192, USA
phackley@usgs.gov

It is suggested that supporting letters of recommendation from colleagues and other scientists accompany the package. Emphasis should be placed on the significance of the nominee's work.

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

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

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

Dr. Paul Hackley
TSOP Vice-President and
Chair of the Honorary Member Selection
Committee

SPACKMAN AWARD Graduate Student Research Grants

Deadline: May 31, 2018

PURPOSE:

The Spackman Award, formerly known as the TSOP Student Grants Program (originally patterned after the 1998 AAPG Grants In Aid Program), supports graduate thesis research in organic petrology. Research must demonstrate the utility and significance of organic petrology (which includes coal petrology, kerogen petrology, organic geochemistry and related disciplines) in solving the thesis problem.

ELIGIBILITY:

The Spackman Award supports qualified graduate students from around the world who are actively seeking advanced degrees. Applicants who have previously been granted a Spackman Award are not eligible to apply for a second grant under the scheme.

AWARDS:

A maximum of two monetary awards, up to U.S. \$1,000.00 each, will be granted. All applicants, whether successful or unsuccessful, are eligible to apply for one year of TSOP Student Membership at no cost.

CONDITIONS:

Monetary awards are to be applied to expenses directly related to the student's thesis work, such as field expenses, laboratory analyses, etc. A portion (not to exceed 25%) of the award funds may be used to attend a TSOP Annual Meeting. Funds should not be used to purchase capital equipment, to pay salaries, tuition, room, or board during the school year. Funds must be spent by the end of the calendar year following granting of the award, and an account of expenditure with copies of receipts should be provided by the end of that year (December 31, 2019 for awards granted in 2018).

APPLICATION DEADLINE:

Download an application form from:

http://www.tsop.org/Spackman_award_apply.html

Completed applications must be e-mailed by May 31, 2018 to:

Isabela Suarez-Ruiz at isruiz@incar.csic.es
Chair of TSOP Spackman Committee



ORGANIC PETROLOGY REFERENCES

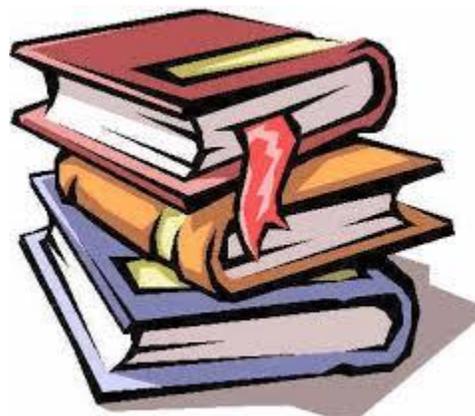
TSOP WEBSITE

Updated March 2018

<http://www.tsop.org/references.html>

As members may be aware, selected bibliographic references are regularly compiled as an ongoing TSOP project. These references should be available at university or geological research center libraries. They are not available from TSOP, except for those listed on our Publications page, or as part of the TSOP Newsletter.

The reference compilation is performed by Brian J. Cardott.



New TSOP Members



Mrityunjay Kumar

Mrityunjay Kumar Jha is a Ph.D. student at Rajiv Gandhi Institute of Petroleum Technology, Jais, Amethi, India since July, 2014. He earned a degree of 3 Yrs, M. Sc. Tech (Applied Geology) from the IIT (ISM), Dhanbad, India in 2014, and Bachelor of Science in Geology (Honours) from the Patna University, Bihar in 2011. He is working in the field of coal geology and organic petrology, with specific emphasis on paleoenvironment prediction, source rock characterisation, classification and effective utilisation of Indian Gondwana bituminous coal from South Karanpura Coalfield and successfully published a few articles. He is currently looking for a postdoc or teaching position.



Sanki Biswas

Sanki Biswas is a Research Fellow at the Department of Applied Geology, Indian Institute of Technology (Indian School of Mines), Dhanbad, India (ISM), working on organo-petrographical and geochemical aspects of different kerogens in hydrocarbon generation from coal and shale. He received M.Tech. degree in Mineral Exploration from the Indian School of Mines, Dhanbad, in 2015 and M.Sc./B.Sc. degrees in geology from Indian Institute of Technology, Kharagpur (2013) and Presidency College, Kolkata (2011) respectively. Currently Sanki is working on petrographical characteristics of coal macerals controlling the potential for hydrocarbon generation.



Meng Li

Dr. Meng Li is a researcher at Institute of Resources and Environment, Henan Polytechnic University, Jiaozuo, P. R. China. He received his Ph.D. degrees in coal geology from China University of Mining and Technology, Beijing. His current research interests encompass paleoenvironmental records archived in coal measures, and heterogeneity of coalbed methane reservoirs, as indicated by cleat, pore and macromolecular structures of coal.



Jingjing Liu

Jingjing Liu is a third year Ph.D. student, studying in College of Geoscience and Mapping Surveying, China University of Mining and Technology (Beijing). She is learning coal petrology at the University of Kentucky Center for Applied Energy Research as a visiting student.



Biao Fu

Biao Fu is a PhD candidate (2014-) from University of Science and Technology of China (USTC).



Currently he continues to study as a joint-training PhD student in Dr. Jim Hower's lab of University of Kentucky. His current research is related to geochemistry of trace elements in coal and coal by-products, coal petrology and fly ash petrology.



Don Chatterjee

Don Chatterjee is pursuing his undergraduate studies at Banaras Hindu University, Varanasi, India, with a major in geology. His interests are in coal science with an emphasis on better understanding coal depositional paleoenvironments and associated coal constituents.



Milovan Fustic

Dr. Milovan Fustic, P.Geol., Petroleum Geoscientist with Geological Survey of Canada and Adjunct Assistant Professor, University of Calgary, has 23 years of professional experience in industry and academia. Dr. Fustic has co-authored more than 20 refereed papers and numerous conference proceedings related to sedimentology, reservoir characterization and modeling, applied petrophysics (dipmeter), oil migration and trapping, biodegradation, and exploration. He has received CSPG Medal of Merit (2012) and Honorable Mention (2010) for the best paper published during the previous year on a subject related to the petroleum geology of Canada. He is a volunteer reviewer for a wide range of earth science publications.





35th TSOP Annual Meeting

August 17-21, 2018

Beijing, CHINA

Abstracts due by June 15, 2018 via email at lei.zhao@y7mail.com

Register Online: <http://tsop2018.org/index.php/Home/Member/regist>

Conference Topics

- Evaluation of the unconventional resources including shale gas, shale oil, coal bed methane, and gas hydrate
- Coal geology, resources, and utilization
- Toxic/Valuable trace elements and minerals in coal and coal ash
- Petroleum geology, coal and organic petrology, and geochemistry
- New techniques and applications

Technical Sessions

- Coal: geology, technology and the future
- Shale gas and oil shale: geology, geochemistry, and technology
- Coal bed methane: geology, technology and the future
- Elements and minerals in coal and coal by-products: environmental concerns and valuable-metal utilization
- Conventional oil and gas: geology, organic geochemistry, and petrology

Conference Venue



Xijiao Hotel

No.18, Wangzhuang Road, Haidian District, Beijing

<http://www.xijiao-hotel.com.cn/>

Tel: 8610-6232 2288

Fax: 8610-6231 1142

Coal Courses August 15-17, 2018

Coal Characterization, Utilization and Impact	
Wednesday Aug 15	
8:00-8:30	Registration
8:30-8:40	Welcome and Overview - Shifeng Dai
8:40-10:00	Coal General Characterization (10 min break in between) – Colin Ward/David French
10:00-10:30	Coffee Break
10:30-11:15	Mineral matter in coal – Colin Ward/David French
11:15-12:00	Modes of Occurrence of Elements in Coal – Bob Finkelman
12:00-2:00	Lunch Break
2:00-3:00	Environmental Impacts of coal – Bob Finkelman
3:00-4:00	Chemistry of Chinese Coals – Shifeng Dai
4:00-4:30	Coffee Break
4:30-5:30	Behaviour of coal mineral matter during utilization – Colin Ward/David French
5:30-6:00	Open Discussion
Thursday August 16	
8:00-8:30	Registration
8:30-10:00	Analytical Methods of Mineral Matter in Coal (10 min break in between) – Colin Ward
10:00-10:30	Coffee Break
10:30-12:00	Uncontrolled coal fires, Health Impacts of Coal and Coal Use (10 min break in between) – Bob Finkelman
12:00-2:00	Lunch Break
2:00-3:00	coal conversion – Shuqin Liu
3:00-4:00	Behavior of macerals in coking and combustion (including unburnt carbon) – Jim Hower
4:00-4:30	Coffee Break
4:30-5:30	Critical elements in coal – Shifeng Dai
5:30-6:00	Ice Breaker
Friday August 17	
8:00-9:00	Registration
8:30-8:40	Welcome and Overview – Jim Hower and Jack Pashin
8:40-10:00	Coal formation from a petrographic perspective (10 min break in between) – Jim Hower
10:00-10:30	Coffee Break
10:30-12:00	Coal as a petroleum source rock and reservoir rock (10 min break in between) – Jack Pashin
12:00-2:00	Lunch Break
2:00-3:00	
3:00-4:00	Coal rank and coal types (or others) – Jim Hower
4:00-4:30	Coffee Break
4:30-5:30	Geological Dynamics of Shale Gas Reservoirs – Jack Pashin
5:30-6:00	Open Discussion

Field Trip

Inner Mongolia Autonomous Region

Inner Mongolia Autonomous Region is located in northern China (Fig. 1), bordering the countries of Mongolia and Russia. It is 2400-km long (N-S) and 1700 km wide (W-E), covering an area of 1.183 million km², and accounting for 12.3% of the total China land area.



Xilinhot City is a county-level city which serves as the seat of government for the Xilin Gol league in Inner Mongolia, China. It has a jurisdiction area of 14,785 km², and a population of 245,886, with 149,000 being in the Xilinhot urban area.

The elevation of the city is about 990 metres (3,250 ft) and is 610 km from Beijing. The historic centre includes an artistic temple. The Naadam Festival, a Mongolian feast, is celebrated here every year. Naadam is a gathering of the Mongolian people for wrestling, horse trading, costume contests, horse racing, etc. It's their summer festival and is generally very colorful with costumes and colorful yurts set up to serve food and sell trinkets and supplies.

Mongolian culture is very prominent with pictures, tapestries and monumental statues of Genghis Khan in every home, shop and street corner. Tourists can stay at nearby yurt resorts where there is a large yurt for dining surrounded by smaller individual yurts for sleeping. The surrounding countryside is rolling grasslands populated by Mongolians who have horses, sheep, goats and some cows. Meals consisted of mutton, beef, cabbages, and other fruit and vegetables.

Wulantuga Coal-hosted Ge ore deposit

The Early Cretaceous Wulantuga high-Ge coal deposit in the Shengli Coalfield, Inner Mongolia, northern China, is one of the major coal-hosted Ge deposits in the world. The Shengli coalfield is 45 km long and 7.6 km wide, with a total area of 342 km²; however, the Wulantuga coal-hosted Ge deposit only covers an area of 2.2 km² within this coalfield. It is estimated that about 1700 t of metallic Ge could be extracted from this coal, which makes it a super-large Ge ore deposit.

The high-Ge No. 6 Coal in this deposit has a low rank ($R_{o\max}=0.45\%$) and is a low-ash coal (8.77%). The Ge content in the coal is 274 $\mu\text{g/g}$ on average (from 51.3 to 1170 $\mu\text{g/g}$). The Ge content in the fly ashes from the baghouse-filter and from electrostatic precipitator is 14870 $\mu\text{g/g}$ and 4730 $\mu\text{g/g}$, respectively. High-purity Ge metal has been extracted from coal ash.



The high-Ge No. 6 Coal Seam (photo by Shifeng Dai)

Registration Fee Information

- (1) The registration fee can be paid via two ways: paying cash at registration desk, or via bank transfer.
- (2) The basic registration fee allows participation in all TSOP sessions, ice breaker reception, business lunch, Sunday lunch and dinner, and coffee breaks.
- (3) The conference dinner, coal courses, and two-day field trip are optional and their cost must be added to the total registration fee.
- (4) Coal courses are optional; participants can choose to attend all three-day course, or first two days, or the 3rd day only.
- (5) If you are bringing a partner/guest to any of these optional functions then these costs must be included.

Items	Members	Non-Members	Students	
Basic Registration	\$220	\$260	\$100	Before July 15
	\$260	\$300	\$120	After July 15
Coal Courses				
Three days	\$250	\$250	\$120	
Day 1+Day 2	\$180	\$180	\$80	
Day 3	\$120	\$120	\$50	
Field Trip	\$350, including air tickets, bus transportation, meals, and two-night accommodation.			
	For guests: \$250/person, including air tickets, bus transportation, meals, and two-night accommodation (double occupancy with registering partner), or \$350/person if occupy a separate room.			
Banquet				\$30
Ice-breaker For Guest				\$15

Host Organizations

China University of Mining and Technology (Beijing)

D-11, Xueyuan Road, Haidian District, Beijing 100083, P.R. CHINA



China University of Mining and Technology

No-1, Daxue Road, Xuzhou, Jiangsu, 221116, P.R. CHINA



Call for Participation in the ICCP Accreditation Programs 2018-2019 Exercise

The International Committee for Coal and Organic Petrology (ICCP) is pleased to invite you to participate in the next Accreditation round. The ICCP has three Accreditation Programs:

- **Single Coal Accreditation Program (SCAP)** for both maceral group and vitrinite random reflectance analyses. In this program the ability of an analyst to identify and quantify the maceral groups and to identify and measure the vitrinite reflectance of a coal sample according to ISO standards is tested. **Organizer: Kimon Christanis (christan@upatras.gr)**
- **Dispersed Organic Matter Vitrinite Reflectance Accreditation Program (DOMVR)**. In this program the ability of an analyst to identify and measure the reflectance of vitrinite occurring as dispersed vitrinite in rocks such as carbonaceous shales or hydrocarbon source rocks is tested. **Organizer: Joao Graciano Mendonca Filho (graciano@geologia.ufrj.br)**
- **Coal Blends Accreditation Program (CBAP)**. In this program the ability of an analyst to identify the number of coals in a blend and their petrographic characteristics such as vitrinite reflectance and maceral group composition according to ISO standards is tested. Organic petrology is the only technique able to yield information of the individual component coals within a coal blend. **Organizer: Isabel Suárez-Ruiz (isruiz@incar.csic.es)**

The ICCP offers discounts for those participating in more than one accreditation program and has established a procedure to facilitate payments in which a single invoice will be produced. This requires that participants fill in the **registration form** available in the following link <http://www.iccop.org/accreditation/accreditation-form> before the **end of April 2018** in order to expedite the procedures. In addition the timing of the exercises has been spaced to reasonably distribute the analytical load of the participants along the year. The expected timing is summarized in Table 1.

Table 1. General Schedule Proposed for 2018-2019 ICCP Accreditation exercises

	SCAP	DOMVR	CBAP
Announcement, call for participants and invoicing	February to May 2018	February to May 2018	February to May 2018
Sample distribution	April to June 2018	May to June 2018	January 2019
Reception of results	July to September 2018	October 2018	March-April 2019
Evaluation, Certificates and Web	October to December 2018	December 2018	May to June 2019
Certificates Validity	01.01.2019 to 31.12.2020	01.01.2019 to 31.12.2020	01.07.2019 to 30.06.2021

Different numbers of samples are to be analysed in the programs depending on your previous participation. Participants entering SCAP or DOMVR programs or having lapsed for a round, have to analyse six samples, whereas continuation in the program requires the analysis of two samples. For CBAP, new entrants are expected to analyse two samples and continuation requires the analysis of a single sample. No participation of automatic systems will be allowed in this round.

The samples for the exercises will be distributed once the organizer has been informed by the treasurer about the reception of the corresponding fee. The fees for the next Accreditation Round are summarized in Table 2. In addition, for participation in two ICCP accreditation programs a **10% discount** will be applied for the two chosen and for participation in all three accreditation programs a **20% discount** will be applied to all three.

Table 2. Fees for the 2018-2019 ICCP Accreditation Programs exercise.

	SCAP		DOMVR		CBAP	
	Entry	Continuation	Entry	Continuation	Entry	Continuation
Non-Members, €	130	90	100	70	200	170
Members, €	65	45	50	35	100	85

Further details on the Accreditation Programs, evaluation procedures and screening method to limit outliers in the accreditation database can be found at the ICCP website www.iccop.org and can be also received by contacting the respective program organizers.

The ICCP accreditation programs have grown and consolidated over the years and are now an efficient instrument for checking the ability and method of an analyst for petrographic analysis. If you are interested in joining the programs, please contact the corresponding organizers.

Magdalena Misz-Kennan
Chair of the Accreditation Subcommittee

FIRST ANNOUNCEMENT

ICCP

International Committee for Coal and Organic Petrology

70th Annual Meeting



September 23 - 29, 2018

Brisbane, Queensland, Australia

Visit <http://www.iccop.org/2018-iccp-meeting-in-brisbane-australia/>
for more details and the full meeting flyer.



P C C

Thirty-Fifth Annual INTERNATIONAL PITTSBURGH COAL CONFERENCE

October 15-18, 2018

Call for Papers

Abstracts Deadline: March 31, 2018

**Clean Coal-based Energy/Fuels and the
Environment**



Hosted By



China University
of Mining and
Technology (CUMT)



University of Pittsburgh
Swanson School
of Engineering

Oklahoma Geological Survey



Research Geologist II:

Organic Petrology, Coal, Petroleum Geology

GENERAL DESCRIPTION:

The Oklahoma Geological Survey is seeking a geologist with a background in organic petrology, coal geology, and/or petroleum geology. The successful candidate will have the opportunity to contribute to a state agency whose charge is to investigate and promote the wise use of Oklahoma's land, water, mineral, and energy resources. The successful candidate will work individually and with others to characterize and understand the origin and evolution of coals, hydrocarbon source rocks, and solid hydrocarbon resources (e.g., asphaltites) in Oklahoma.

RESPONSIBILITIES:

- Conduct investigations of coals, hydrocarbon source rocks, and solid hydrocarbon resources in Oklahoma
- Publish and present results of scientific investigations
- Serve the general public, particularly by providing information and technical assistance to operators, consultants, and the public on a regular basis
- Participate in and lead geologic field trips
- Maintain databases and bibliographies of coal, gas shales, source rocks, and basins in Oklahoma

KNOWLEDGE & SKILLS:

- Excellent oral and written communication skills
- Excellent organizational and interpersonal skills
- Knowledge of Oklahoma coal and petroleum geology
- Skilled in use of geology-related software and programs (ArcGIS; Petra, Geographix; Microsoft Access and Excel)

MINIMUM QUALIFICATIONS:

Education: Minimum of a Bachelor's degree in Geology or GeoScience related field.

Experience: Demonstrated at least 2 years' experience in Geology.

PHYSICAL WORKING CONDITIONS:

Travel: Field investigations, meetings, and workshops may require in-state or out-of-state travel, long workdays, and/or overnight travel.

Physical Condition: Should be in good physical condition for walking, carrying fifty pounds up to ½ mile, loading and unloading equipment, and digging and trenching to collect samples.

PREFERENCES:

- Master's in Geology or related Geoscience.
- Experience using a reflected-light microscope for organic petrology studies
- Experience measuring vitrinite, bitumen, and zooclast reflectance
- Experience in the maceral analysis of coal and visual kerogen analysis of shale

Apply online at <https://ou.taleo.net/careersection/1/jobdetail.ftl?job=180349&tz=GMT-06%3A00>



CALENDAR OF EVENTS 2018



Please send in meeting, short course and special event announcements to the Editor

<http://www.tsop.org/events.html>

	<p>May 20-23, 2018 AAPG 2018 Annual Convention & Exhibition - Salt Lake City, UT, USA</p>
	<p>August 11-17, 2018 Goldschmidt Conference - Boston, MA, USA</p>
 <p>The Society for Organic Petrology</p>	<p>August 15-17, 2018 Coal Courses - Beijing, CHINA</p>
 <p>The Society for Organic Petrology</p>	<p>August 17-22, 2018 35th Annual TSOP Meeting - Beijing, CHINA</p>
	<p>August 19-22, 2018 2018 Conjugate Margins Conference – Halifax, Nova Scotia, Canada</p>
	<p>September 20-21 ICCP Short Course in Coal Petrology – Brisbane, QLD, Australia</p>
	<p>September 23-29 70th ICCP Annual Meeting – Brisbane, QLD, Australia</p>
	<p>October 15-18, 2018 2018 International Pittsburgh Coal Conference – Xuzhou, China</p>
	<p>November 4-7, 2018 Annual GSA Meeting - Indianapolis, IN, USA</p>
	<p>December 10-14, 2018 AGU Fall Meeting – Washington, D.C., USA</p>