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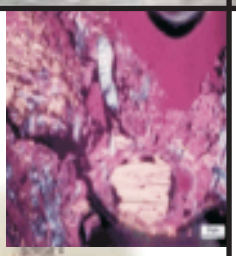

COKE

Reflectance
fluorescence

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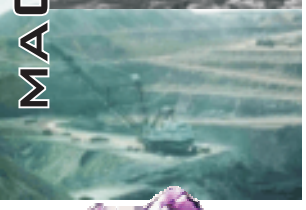
MACERAL



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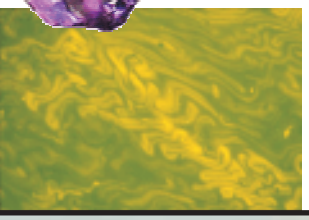


V. Hevia-Rodriguez

Javier Prado

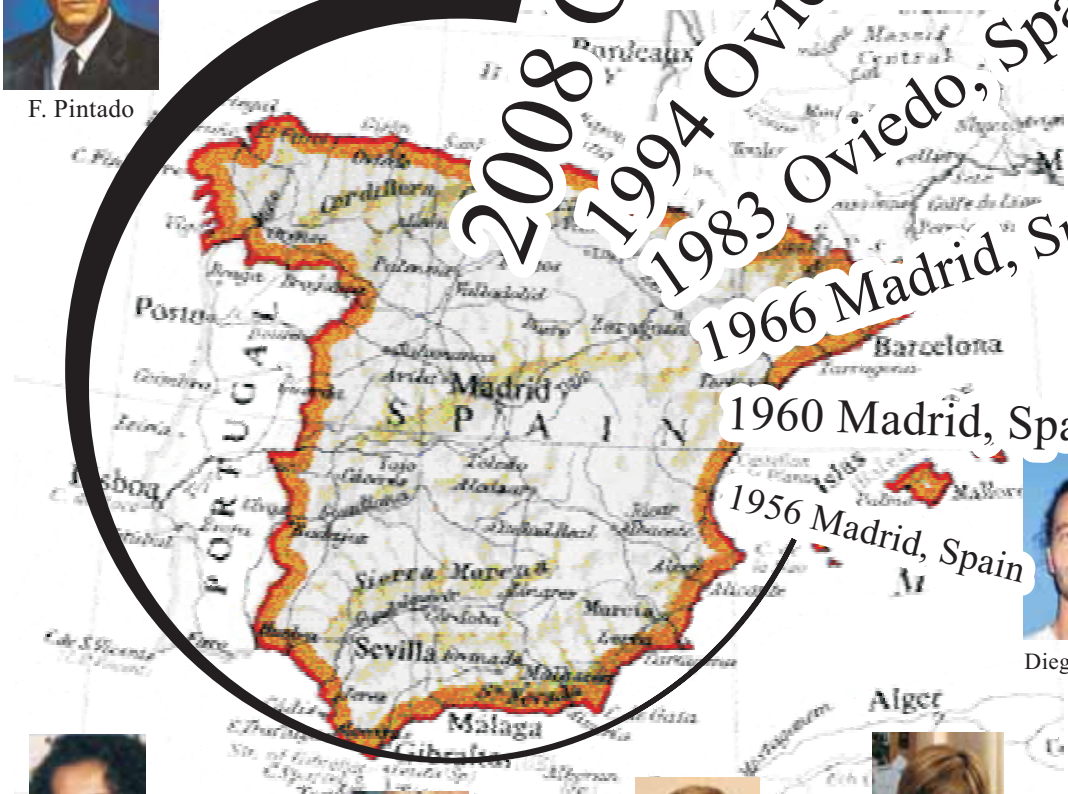
Isabel
Suárez Ruiz

Ángeles
Gómez Borrego

Rosa Menéndez

F. Pintado

2008 Oviedo, Spain
1994 Oviedo, Spain
1983 Oviedo, Spain
1966 Madrid, Spain
1960 Madrid, Spain
1956 Madrid, Spain



Diego Álvarez

Lily Méndez Forero

Amalia Jiménez Bautista

José Montes

Maria Díez

inside this issue

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From the Editor

There are certainly interesting years ahead of us in the organic petrology community. Oil has recently bounced back from historic highs nearing US$150 per barrel. Climate change and carbon trading are part of the new paradigms.

Australia has just commenced down the path of a carbon trading regime, along the lines of that already in operation in Europe. The politics appear to be horrendous. For example, in a curious range of mixed messages, our government has included petrol ('gas' to the North Americans) in the carbon trading regime but will offset any increased cost of petrol by reducing federal taxes by the same amount (for an introductory period of 3 years). In other words, to keep motorists happy, the price of petrol will not change due to a carbon emissions tax!! Potentially hard hit by a carbon tax is our coal industry and associated electricity production. But again, the government will provide compensation. It is most curious that compensation will be everywhere to offset increased prices associated with the new tax and carbon emissions trading regime. While this will not send a very strong message to consumers in the short term, it is perhaps the most politically expedient way to ease our population into a new carbon-aware society.

Associated with these new government initiatives has been a degree of political activism from 'green' groups not seen in many years in Australia. This activism includes breaking into coal-fired power stations to cause whatever disruption they can.

It is against this type of background that we are seeing a surge in numbers of members wishing to join groups such as ICCP. Given the very low level of scientific discussion in some key areas, it appears to me to be a most welcome outcome that more scientists are joining learned societies such as ours at this key time.

It is part of our job to ensure that the political, economic and environmental debates are based in the best science available. The more we know and the better we understand our fossil fuel, the better we can contribute to this most important international debate.

At the time of writing, I will be unable to make the Oviedo meeting. The technical and social programmes are outstanding. I am most envious of those able to attend.

Peter

From the President

Dear Colleagues,

One important step for ICCP in the near future will be the decision on the ICCP status , i.e. whether or not ICCP will becomes a registered organisation and if yes, in under which legislation.

As you might remember, Prof Lemos de Sousa raised the issue of the status of ICCP in 1998 when he was President in relation to ICCP becoming formally associated with the UN. The UN has changed its rules and affiliation is now through ECOSOC. While we are not experts on UN matters, the ECOSOC rules seem quite clear. They will only consider organizations that are formally registered within a national set of laws and regulations.

Since that suggestion in 1998, it has become clear that there are other issues facing ICCP that would be solved or at the least improved by our being a formal registered organization. These include (but are not limited to) holding copyright on ICCP work, insurance liability and having formal status with organizations such as ISO. This last is especially important in relation to the Accreditation activities that have become so important in the last decade.

Following an intense discussion, voting papers were sent out in August 2005 to all ICCP members to investigate if members favour the registration of the organisation in principle. The results show that the majority of those voting in favour of registration is substantial.

If ICCP becomes registered, it will have an affiliation with a specific country, the country where it is registered.

Rules and costs of registration vary between countries. But all jurisdictions we have investigated would permit ICCP to operate in much the same manner as it has with its administration being undertaken by Council officers in essentially the same way.

Five ICCP members have provided information of rules and costs of registration in their own countries and are prepared to assist with the registration if required:

Jurisdictions to be considered are:

1. Canada
2. Greece
3. New South Wales (Australia)
4. Portugal
5. Spain

The documents provided for the various jurisdictions differ in relation to the categories making comparisons difficult. Attempts were made by the Past President Alan Cook and the General Secretary to prepare a simple table of comparisons. However it was recognised that they were not always comparisons of like categories. More information on the details will be sent out to all members in the scope of the voting process.

ICCP would have to comply with a number of formalities in order to become registered. The Statutes would require revision to confirm with the body under which registration was undertaken. It is normal for registered organizations to have professional liability insurance. The accounts would require auditing with audited accounts sent in with the annual returns in the same way that companies make annual returns and report annual audited accounts.

Although in the past ICCP performed very well without a legal status, it appears that in today's world registration will act in favour of a number of ICCP activities in the future. All parts of the ICCP Accreditation Program are better accommodated within a registered organization that can have standing with other organizations. A formal structure will also assist with the further development of the organisation, e.g. with the development of training activities in order to more effectively spread our nomenclature, knowledge, and experience throughout the world - and this especially within emerging countries as China, India, Indonesia. Being registered, ICCP may become eligible to new sources of funding.

If you have any questions or comments please contact me at mailto:Petra.david@tno.nl

With kind regards
Petra David

HELP !!!

I need somebody who can make a good quality polished thin section of coal for the degradinite working group. If you know who can do this can you please email me:
mailto:peter.crosdale@energyrc.com.au

many thanks, Peter

2008 ICCP Directory

The General Secretary, Editor and Treasurer are pleased to announce that the 2008 ICCP Directory is now available.

All ICCP Members will receive a hard copy of the directory by post.

If you normally receive the newsletter by post, it will be included with this issue. If you normally download the newsletter from the web site, then you have been posted a copy of the directory and it will arrive shortly.

Due to privacy concerns expressed by some members, electronic versions of the directory will NOT be made available.

If you do not receive your copy of the directory in the near future, then please contact the editor who will be most happy to provide you with a replacement.

Know Your Coal Petrologist #33

A familiar face to many of us, here at the Mackowsky Symposium in Utrecht in 2003, apparently able to give his presentation in his sleep. Answer page 26.

DEADLINE FOR NEXT ICCP NEWS : 13TH OCTOBER 2008

International Conference on Coal and Organic Petrology
ICCP - TSOP
September 21-27, 2008, Oviedo, Spain

http://www.incar.csic.es/iccp_tsop

Organized by: Instituto Nacional del Carbón (INCAR-CSIC)

The Joint Meeting ICCP-TSOP (The International Committee for Coal and Organic Petrology - The Society for Organic Petrology) will be held in Oviedo (Spain) in September 21-27, 2008. The conference venue is:

Prince Philip Auditorium
Plaza de la Gesta 33007 Oviedo
http://www.palaciocongresos-oviedo.com

For the most up to date information, visit the web site

http://www.incar.csic.es/iccp_tsop

or contact:

Dr. Isabel Suárez-Ruiz
Instituto Nacional del Carbón (INCAR)
Francisco Pintado Fe, 26
33011 - Oviedo. SPAIN
mailto:isruiz@incar.csic.es

Details of accommodation, registrations forms etc. can also be found in ICCP News #43, March 2008 on pages 5 to 10.

INTERNATIONAL CONFERENCE ON COAL AND ORGANIC PETROLOGY. ICCP-TSOP
September 21-27, 2008. Oviedo. Spain
Organized by: Instituto Nacional del Carbón (INCAR-CSIC)
JOINT MEETING SCHEDULE

Time	Sunday September 21	Monday September 22	Tuesday September 23	Wednesday September 24	Thursday September 25	Friday September 26	Saturday September 27
8:30 - 9:00		*Registration*	*Registration*	*Registration*	Scientific Joint Session: Organic Petrology in the Context of Global Climate Change and Greenhouse Emissions	TSOP Technical Session: Advances in Coal Petrology and Organic Geochemistry	Field trip Asturian Coastal Jurassic (Black shales, Source rocks, Dinosaur Tracks) and Jurassic Museum Visit Organized by: Facultad de Geologia (Universidad de Oviedo) and Museo del Jurásico de Asturias (MUJA)
9:00 - 9:30		Welcome 60th ICCP Meeting ICCP General Assembly	Commission II Geological Applications of Coal and Organic Petrology Commission I General Coal and Organic Petrology	Commission I General Coal and Organic Petrology Commission III Industrial Applications of Coal petrology			
9:30 - 10:00							
10:00 - 10:30	Council Meeting ICCP				25th TSOP Meeting TSOP Technical Session: Coal as Gas Reservoir		
10:30 - 11:00							
11:00 - 11:30							
11:30 - 12:00							
12:30 - 13:00							
13:00 - 13:30							
13:30 - 14:00	*Lunch break*	*Lunch break*	*Lunch break*	*Lunch break*	Business Luncheon and Meet the TSOP Council Event	*Lunch break*	
14:00 - 14:30							
14:30 - 15:00							
15:00 - 15:30	Council Meeting ICCP	Commission II Geological Applications of Coal and Organic Petrology	Commission I General Coal and Organic Petrology Microscope Session	Commission III Industrial Applications of Coal petrology Plenary Session ICCP general Assembly	TSOP Technical Session: Applied Organic Petrology to Coal Utilization and Coal By-products	TSOP Technical Session: Organic Petrology Applied to Climate and Environmental Studies Poster Session	
15:30 - 16:00							
16:00 - 16:30							
16:30 - 17:00							
17:00 - 17:30							
17:30 - 18:00							
18:00 - 18:30	Registration & Ice-Breaker Party		Council Meeting ICCP	Council Meeting TSOP			
18:30 - 19:00							
19:00 - 19:30							
19:30 - 20:00							
20:00 - 20:30						Evening Conference Dinner	
20:30 - 21:00							
21:00 - 21:30							
21:30 - 22:00							
22:00 - 22:30							
22:30 - 23:00							
23:00 - 23:30							
23:30 - 24:00							

PROGRAM OVERVIEW

Sunday, 21 September

10:00 - 13:30 ICCP Council Meeting
13:30 - 15:00 Lunch Break
15:00 - 18:00 ICCP Council Meeting
18:00 - 21:30 Registration and Ice-breaker Party

Monday, 22 September

08:30-12:00 Registration
09:00 - 10:30 Welcome of the Organizing Committee, CSIC Vice - president and Keynote Lecture (HUNOSA Delegate).
10:30 - 11:00 Coffee Break
11:00 - 13:30 60th ICCP Meeting. Opening Plenary Session of the ICCP General Assembly.
13:30 - 15:00 Lunch Break
15:00 - 17:00 Meeting of ICCP Commission II
17:00 - 17:30 Coffee Break and Poster Viewing
17:30 - 18:30 Meeting of ICCP Commission II

Tuesday, 23 September

08:30 - 12:00 Registration
08:30 - 11:00 Meeting of ICCP Commission II
11:00 - 11:30 Coffee Break and Poster Viewing
11:30 - 13:30 Meeting of ICCP Commission I
13:30 - 15:00 Lunch Break
15:00 - 17:00 Meeting of ICCP Commission I
17:00 - 17:30 Coffee Break and Poster Viewing
17:30 - 19:30 Meeting of ICCP Commission I
19:30 - 21:30 ICCP Council Meeting

Wednesday, 24 September

08:30 - 20:00 Registration
08:30 - 10:30 Meeting of ICCP Commission I
10:30 - 11:00 Meeting of ICCP Commission III
11:00 - 11:30 Coffee Break and Poster Viewing
11:30 - 13:30 Meeting of ICCP Commission III
13:30 - 15:00 Lunch Break
15:00 - 17:00 Meeting of ICCP Commission III
17:00 - 17:30 Coffee Break and Poster Viewing
17:30 - 19:30 Closing Plenary Session of the ICCP General Assembly
19:30 - 21:30 TSOP Council Meeting

Thursday, 25 September

08:30 - 12:00 Registration
08:30 - 09:50 Scientific session: Organic Petrology in the Context of Global Climate Change and Greenhouse Gases Emissions
09:50 - 10:00 25th TSOP Meeting: Opening
10:00 - 11:00 TSOP Technical Session: Coal as Gas Reservoir
11:00 - 11:30 Coffee Break and Poster Viewing
11:30 - 13:30 TSOP Technical Session: Coal as Gas Reservoir
13:30 - 15:30 Lunch Break / TSOP Annual Business Meeting and Lunch
15:30 - 17:00 TSOP Technical Session: Applied Organic Petrology to Coal Utilization and Coal By-products
17:00 - 17:30 Coffee Break and Poster Viewing
17:30 - 19:30 TSOP Technical Session 2: Applied Organic Petrology to Coal Utilization and Coal By-products

Friday, 26 September

08:30 - 11:00 TSOP Technical Session: Advances in Coal Petrology and Organic Geochemistry
11:00 - 11:30 Coffee Break and Poster Viewing
11:30 - 13:10 TSOP Technical Session: Advances in Coal Petrology and Organic Geochemistry
13:10 - 13.30 Carl Hilgers Demonstration
13:30 - 15:00 Lunch Break
15:00 - 17:00 TSOP Technical Session: Organic Petrology Applied to Climate and Environmental Studies
17:00 - 17:30 Coffee Break
18:00 - 19:00 Poster Session
20:00 - 23:30 Conference Dinner

Saturday, 27 September

08:30 - 19:00 Field Trip to the Asturian Jurassic Coast and Visit to the Jurassic Museum.

Companies will show in their stands for exhibition the technical advancements on Organic Petrology.

DETAILED PROGRAMME

Sunday, 21 September

10:30 - 13:30 ICCP Council Meeting. Third floor Room. Auditorium-Congress Palace "Príncipe Felipe"

13:30 - 15:00 Lunch Break Third floor Restaurant. Auditorium-Congress Palace "Príncipe Felipe"

15:00 - 18:00 ICCP Council Meeting. Third floor Room. Auditorium-Congress Palace "Príncipe Felipe"

18:00 - 21:30 Registration and Ice-breaker Party. Auditorium-Congress Palace "Príncipe Felipe"
Registration: Main Hall
Ice-break Party: Exhibition Hall. Auditorium-Congress Palace "Príncipe Felipe"

Monday, 22 September

08:30 - 12:00 Registration
Main Hall. Auditorium-Congress Palace "Príncipe Felipe"

09:00 - 10:30 Welcome of the Organizing Committee, CSIC Vice-president and Keynote Lecture (HUNOSA delegate). Room Chamber. Auditorium-Congress Palace "Príncipe Felipe"

10:30 - 11:00 Coffee Break and Poster Viewing
Main Hall. Auditorium-Congress Palace "Príncipe Felipe"

11:00 - 13:30 60th ICCP Meeting. Opening Plenary Session of the ICCP General Assembly.
Room Chamber. Auditorium-Congress Palace "Príncipe Felipe"

Opening Dr. Petra David (ICCP President)

1. Apologies for Non-attendance
2. Minutes of Previous Meeting
3. Arrangements for Oviedo meeting
4. Future Meetings
5. Membership
6. Elections
7. ICCP Status - Registration
8. Revision of Statues
9. ICCP Training Activities
10. Financial matters

13:30 - 15:00 Lunch Break

15:00 - 17:00 Meeting of ICCP Commission II
Room Chamber. Auditorium-Congress Palace "Príncipe Felipe"

15:00 - 15:20 Opening Address - Start up and review of last five years activities and presentation of Commission II training material - Ángeles G. Borrego, Carla Araujo
15:20 - 16:00 Environmental Applications of Organic Petrology Convenor - Hamed Sanei
16:00 - 16:30 Classification of Dispersed Organic Matter, DOM Working Group - Lavern Stasiuk , Adrian Hutton, Jack Burgess, Carolyn Thompson-Rizer
16:30 - 17:00 Concentration of Organic Matter - João Graciano Mendonça Filho

17:00 - 17:30 Coffee Break and Poster Viewing
Main Hall. Auditorium-Congress Palace "Príncipe Felipe"

17:30 - 18:30 Meeting of ICCP Commission II
Room Chamber. Auditorium-Congress Palace "Príncipe Felipe"

17:30 - 17:45 Accreditation program on dispersed organic matter - Alan Cook
17:45 - 18:15 Identification of Dispersed Organic Matter - Jolanta Kus
18:15 - 18:30 Coal Seam Methane and CO_2 Sequestration Working Group - Peter Crosdale, Lila Gurba

Tuesday, 23 September

08:30 - 12:00 Registration
Main Hall. Auditorium-Congress Palace "Príncipe Felipe"

08:30 - 11:00 Meeting of ICCP Commission II
Room Chamber. Auditorium-Congress Palace "Príncipe Felipe"

08:30 - 09:00 Thermal Indices - Carla Araujo
09:00 - 09:30 Dispersed Organic Matter in sedimentary rocks- A white paper - Maria Hamor-Vidó, W. Kalkreuth
09:30 - 10:30 Re-appraisal of information from past Commission II activities - Ángeles G. Borrego
10:30 - 11:00 Identification of Opportunities for New WGs & Web contents from Commission II - Ángeles G. Borrego & Carla Araujo

11:00 - 11:30 Coffee Break and Poster Viewing
Main Hall. Auditorium-Congress Palace "Príncipe Felipe"

11:30 - 13:30 Meeting of ICCP Commission I
Room Chamber. Auditorium-Congress Palace "Príncipe Felipe"

11:00 - 11:30 Introduction to 2008 Commission I Meeting - Walter Pickel
11:30 - 12:00 Single Coal Accreditation Program - SCAP - Kimon Christanis
12:00 - 12:30 Standardization Working Group - Walter Pickel
12:30 - 13:00 Temporal Variations in Coal - Lopo Vasconcelos
13:00 - 13:30 Degradinite WG - Peter Crosdale

13:30 - 15:00 Lunch Break

15:00 - 17:00 Meeting of ICCP Commission I
Room Chamber. Auditorium-Congress Palace "Príncipe Felipe"

15:00 - 15:30 New Handbook Editorial Group - Petra David
15:30 - 16:00 Peat Petrography WG - Kimon Christanis & Stavros Kalaitzidis
16:00 - 16:30 New WG: Proposal of New WG - Lignite Microlithotypes. W.P. on behalf of Prakash K. Singh and M. P. Singh.
16:30 - 17:00 Liptinite Classification - Walter Pickel

17:00 - 17:30 Coffee Break and Poster Viewing
Main Hall. Auditorium-Congress Palace "Príncipe Felipe"

17:30 - 19:30 Meeting of ICCP Commission I
Room Chamber. Auditorium-Congress Palace "Príncipe Felipe"

17:30 - 19:30 Microscope session

19:30 - 21:30 ICCP Council Meeting
Third floor Room. Auditorium-Congress Palace "Príncipe Felipe"

Wednesday, 24 September

08:30 - 20:00 Registration
Main Hall. Auditorium-Congress Palace "Príncipe Felipe"

08:30 - 11:00 Meeting of ICCP Commission I
Room Chamber. Auditorium-Congress Palace "Príncipe Felipe"

08:30 - 9:30 Proposal of New WG: ICCP Training Program - Petra David, Angeles G. Borrego, Peter Crosdale.
09:30 - 10:00 Identification of Opportunities for New WGs & Web contents from Commission I – Walter Pickel, Deolinda Flores
10:00 - 10:30 Commission I Activities Report - Review 2000/2008 & future direction of Commission I, Walter Pickel, Deolinda Flores

10:30 - 11:00 Meeting of ICCP Commission III
Room Chamber. Auditorium-Congress Palace "Príncipe Felipe"

10:30 - 11:00 Activity Report of Commission III 2007/2008 - Isabel Suárez-Ruiz, Georgeta Predeanu

11:00 - 11:30 Coffee Break and Poster Viewing
Main Hall. Auditorium-Congress Palace "Príncipe Felipe"

11:30 - 13:30 Meeting of ICCP Commission III
Room Chamber. Auditorium-Congress Palace "Príncipe Felipe"

11:30 - 12:00 Coke petrography - Heicke Eickhoff, Alan Cook
12:00 - 12:30 Inertinite in combustion - Ángeles G. Borrego
12:30 - 12:40 Automation - David Pearson
12:40 - 13:00 Accreditation Programme on Coal Blends - Isabel Suárez-Ruiz
13:00 - 13:30 Structural order - Slawka Pusz

13:30 - 15:00 Lunch Break

15:00 - 17:00 Meeting of ICCP Commission III
Room Chamber. Auditorium-Congress Palace "Príncipe Felipe"

15:00 - 15:40 Improved Image Analysis - Cristina Rodriguez
15:40 - 15:45 Identification and petrographic classification of components in fly ashes - Isabel Suárez-Ruiz, Bruno Valentim
15:45 - 16:15 Proposal of new WG: Gasification products characterization - Nicki Wagner
16:15 - 16:45 Proposal of new WG: Carbon Materials - Georgeta Predeanu
16:45 - 17:00 Identification of Opportunities for new WGs & Web contents from Commission III - Isabel Suárez-Ruiz, Georgeta Predeanu

17:00 - 17:30 Coffee Break and Poster Viewing
Main Hall. Auditorium-Congress Palace "Príncipe Felipe"

17:30 - 19:30 Closing Plenary Session of the ICCP General Assembly
Room Chamber. Auditorium-Congress Palace "Príncipe Felipe"

1. ICCP Accreditation program
2. Editors Report
3. Website
4. New Handbook
5. Elections
6. Short reports from the Commission Meetings
7. Short report from the Council Meeting
8. Awards
9. Other

19:30 - 21:30 TSOP Council Meeting
Third floor Room. Auditorium-Congress Palace "Príncipe Felipe"

Thursday, 25 September

08:30 - 12:00 Registration
Main Hall. Auditorium-Congress Palace "Príncipe Felipe"

08:30 - 09:50 Scientific session: Organic Petrology in the Context of Global Climate Change and Greenhouse Gases Emissions
Room Chamber. Auditorium-Congress Palace "Príncipe Felipe"

09:50 - 10:00 25th TSOP Meeting Opening
Dr. Leslie Ruppert (TSOP President)

10:00 - 11:00 Morning TSOP Technical Session: Coal as Gas Reservoir
Room Chamber. Auditorium-Congress Palace "Príncipe Felipe"

10:00 - 10:05 Introduction. Chairs: Drs. Leslie Ruppert and Manuel Lemos de Sousa
10:05 - 10:20 Thermodynamic and Kinetic High Pressure Sorption Behaviour of CH_4 and CO_2 on Chinese Coals. D. Li, Q. Liu, B. M. Krooss, A. Busch
10:20 - 10:40 Gas content derivative data versus diffusion coefficient. C. F. Rodrigues, M.A.P. Dinis, M.J. Lemos de Sousa
10:40 - 11:00 Coal gas with significantly low $\delta^{13}C1$ values and its formation mechanisms. Y. Ni, J. Dai, Ch. Yang, Q. Zhou, A. Hu

11:00 - 11:30 Coffee Break and Poster Viewing
Main Hall. Auditorium-Congress Palace "Príncipe Felipe"

11:30 - 13:00 Morning TSOP Technical Session: Coal as Gas Reservoir (continued)

11:30 - 11:50 The Steele/Niobrara shales in Wyoming: could they become a major unconventional gas play in the Rockies? T. Gentzis, G. Murrie, G. Hampton III
11:50 - 12:10 Methane and carbon dioxide adsorption experiments on bituminous coal samples from the Ostrava-Karviná Coal District, Upper Silesian Basin, Czech Republic. P. Weniger, A. Busch, B. M. Krooss, J. Francu, E. Francu
12.10 - 12:30 Coalbed methane potential of the Paleocene Fort Union Coals in the antelope arch, South-Central, Wyoming, USA. T. Gentzis, G. Hampton III, G. Murrie
12:30 - 12:50 Preliminary results of high-pressure CH_4 and CO_2 sorption tests on Permian age coals from the Paraná Basin, Brazil. W. Kalkreuth, J. Levandowsky, M. Holz, A. Busch, B. Krooss

13:00 - 13:20 Group Photo

13:30 - 15:30 Lunch Break / TSOP Annual Business Meeting and Lunch
Third floor Restaurant. Auditorium-Congress Palace "Príncipe Felipe"

15:30 - 17:00 Afternoon TSOP Technical Session: Applied Organic Petrology to Coal Utilization and Coal By-products
Room Chamber. Auditorium-Congress Palace "Príncipe Felipe"

15:30 - 15:40 Introduction. Chairs: Drs. Paul Hackley and Ivana Sýkorová
15:40 - 16:00 Advanced techniques for mineralogical evaluation of Fly Ash and other coal combustion products. D. French, C. R. Ward
16:00 - 16:20 Thermal transformation of organic matter in coal waste from Rymer Cones (Upper Silesian Coal Basin, Poland). M. Misz-Kennan, M. Fabiańska
16:20 - 16:40 Mode of occurrence of mineral matter in South African Bituminous Coals and Canadian Lignites. M. Raghoo, R. H. Matjie, C. R. Ward, D. H. French, Z. Li
16:40 - 17:00 Methodology utilized for the petrography study of the particulate material originating from the contamination of the air. A. Blandón, A. Restrepo

17:00 - 17:30 Coffee Break and Poster Viewing
Main Hall. Auditorium-Congress Palace "Príncipe Felipe"

17:30 - 19:10 Afternoon TSOP Technical Session: Applied Organic Petrology to Coal Utilization and Coal By-products (continued)
Chairs: Drs. Colin Ward and Isabel Suárez-Ruiz

17:30 - 17:50 A comprehensive analytical study of fly ash from the main lignite-fired power plants of northern Greece A. Iordanidis, J. Garcia-Guinea, J. Buckman, A. Asvesta

17:50 - 18:10 Organic petrology and mercury speciation: Results from the Mackenzie River Basin, Northwest Territories, Canada. J. Carrie, H. Sanei, F. Goodarzi, G. Stern, F. Wang

18:10 - 18:30 Mineralogy of ash deposits in super-heater surface from coal-fired power plants. J. Zhang, Y. Zhao, Q. Gao, Z. Guo, H. Li, C. Zheng

18:30 - 18:50 The characterisation of biomass/ coal blends and their subsequent chars using microscopy and thermogravimetric analysis. E. Lester, C. Avila

18:50 - 19:10 Use of petrographic investigations in prediction of combustion behaviour of inertinite rich coal and char and flyash formation. A. Kumar Varma, M. Kumar, V. Kumar Saxena, A. Sarkar

Friday, 26 September

08:30 - 11:00 Morning TSOP Technical Session: Advances in Coal Petrology and Organic Geochemistry
Room Chamber. Auditorium-Congress Palace "Príncipe Felipe"

08:30 - 08:40 Introduction. Chairs: Drs. Ángeles G. Borrego and Thomas Gentzis.

08:40 - 09:00 Occurrence of non-mineral inorganics in macerals of low-rank Coals from Australia, New Zealand, Indonesia and Thailand. Z. Li, C. R. Ward, L. W. Gurba

09:00 - 09:20 Combining transmission digital holographic microscopy and fluorescence microscopy for observing particles of coal palynofacies. A. Restrepo-Martínez, G. Indebetouw, R. Castañeda, A. Blandón

09:20 - 09:40 Characteristics of $\delta^{13}C$ values of alkane gases from Xujiahe coal measure, Sichuan Basin, China and its significance on gas-source correlation. J. Dai, Y. Ni, G. Hu, A. Hu

09:40 - 10:00 The origin of natural gas and the hydrocarbon charging history of Yulin gas field in Ordos Basin, China G. Hu, C. Ma, Z. Hang, Q. Song, W. Liu

10:00 - 10:20 The petrographic assessment of anomalies in coals. N. Wagner, R. Falcon

10:20 - 10:40 Intrusion confusion: does contact metamorphism of coal produce different maturation relationships than burial maturation? S. M. Rimmer, L. E. Yoksoulian, J. C. Hower

11:00 - 11:30 Coffee Break and Poster Viewing
Main Hall. Auditorium-Congress Palace "Príncipe Felipe"

11:30 - 13:30 Morning TSOP Technical Session: Advances in Coal Petrology and Organic Geochemistry (continued)
Chairs: Drs.Maria Hamor-Vidó and Nicola Wagner

11:30 - 11:50 Characteristics of hydrocarbon source rocks from Carboniferous coal measures in the Junggar Basin and gas-source correlation. J. Li, J. Dai, Y. Xia, X. Luo, D. Wang, X. Shi

11:50 - 12:10 The maturity of organic matter and the source potential of data formation to generate oil in the Potwar sub-basin, Pakistan. N. Wali Khan

12:10 - 12:30 Thermal maturity of coal and associated hydrocarbons in the SW Upper Silesian Coal Basin. J. Francu, P. Weniger, E. Francu, B. Krooss

12:30 - 12:50 Preliminary study of coal petrology and organic geochemistry of Tertiary coal in the east field, Bogovina basin, Serbia. D. Životić, B. Jovančićević, J. Schwarzbauer, O. Cvetković, I. Gržetić, M. Ercegovac, K. Stojanović, A. Šajnović

12:50 - 13:10 Petrologic properties of low rank coals in Biga Peninsula, Turkey. M. Maral, B. Besbelli, F. Suner

13:10 - 13:30 Fossil Fuel Program via Optical Microscopy: C. Hilgers Demonstration. C. Hilgers

13:30 - 15:00 Lunch Break

15:00 - 17:00 Afternoon TSOP Technical Session: Organic Petrology Applied to Climate and Environmental Studies
Room Chamber. Auditorium-Congress Palace "Príncipe Felipe"

15:00 - 15:05 Introduction. Chairs: Drs. Sue Rimmer and Petra David.

15:05 - 15:25 The Stratigraphic Distribution of Inertinite. C. F. K. Diessel

15:25 - 15:45 Sedimentology, petrography and depositional environments of the coals of the Palomos Mine, Amagá Formation (Colombia). I. Carmona López, C. A. Guzmán López

15:45 - 16:05 Do carbon isotopes in coal reflect palaeoclimates? - the carbon-isotope and floral record for the mid-Cenozoic in SE Australia. G. R. Holdgate, T. Fromhold, B. E. Wagstaff, S. J. Gallagher, M. W. Wallace.

16:05 - 16:25 Palaeoenvironmental Significance of Pyritic nodules in the Cenomanian-Turonian sequence of lower Benue Trough, Nigeria. O.A. Ehinola, S. Qin, A.A.Onibonoje

16:25 - 16:45 Contact metamorphosed coal and global warming: no evidence for the release of ^{13}C-depleted methane. L .E. Yoksoulian, S.M. Rimmer, H.D. Rowe, D.R. Gröcke

16:45 - 17:05 Organic petrology of sub-bituminous carbonaceous shale samples from Chalāw, Kabul Province, Afghanistan: implications for paleoenvironment. P. C. Hackley, J.R. SanFilipo, G. Pacha Azizi, S. W. Starratt

17:05 - 17:30 Coffee Break
Main Hall. Auditorium-Congress Palace "Príncipe Felipe"

18:00 - 19:00 Poster Session
Main Hall. Auditorium-Congress Palace "Príncipe Felipe"
A full list of posters is given on page 12.

20:00 - 23.30 Conference Dinner
Terra Astur Restaurant. Colloto.

20:00 Bus Service. Delegates pick-up at "La Nueva España " Building, close to the Auditorium-Congress Palace "Príncipe Felipe", to Terra Astur Restaurant.

20:30 - 21:00 Asturian Cider Tasting

21:00 - 23:30 Dinner

23:30 Bus Service. Delegates pick-up at Terra Astur Restaurant to "La Nueva España " Building, close to the Auditorium-Congress Palace "Príncipe Felipe".

Saturday, 27 September

08:30 - 19:00 Field Trip to the Asturian Jurassic Coast and Visit to the Jurassic Museum.

08:30 Bus Service. Delegates pick-up at "La Nueva España " Building, close to the Auditorium-Congress Palace "Príncipe Felipe" to visit:

09:30 Tereñes Beach

11:00 La Griega Beach

13:30 - 15:30 Lunch Break. Asturian typical food: Espicha Asturiana

15:30 - 17:00 Visit to the Jurassic Museum.

17:00 - 18:00 Vega Beach

18:00 Bus Service. Delegates pick-up at Vega Beach to "La Nueva España " Building, close to the Auditorium-Congress Palace "Príncipe Felipe"

Friday, 26 September

18:00-19:00 Poster Session (63 Posters)
Main Hall. Auditorium-Congress Palace "Príncipe Felipe"

P1 Infrared spectrum of an individual fossil pollen grain measured as an organic maturation index. *T. Aizawa, T. Ohbuchi, Y. Ujiié*

P2 Evaluation of the oil generation potential in the Santos Basin integrating petrological and geochemical parameters with sequence stratigraphical concepts. *M. Balbinot, M. Blanco, W. Kalkreuth*

P3 Deposition and characterisation of pyrolytic carbon in industrial coke ovens by optical microscopy and SEM. *R. Barranco, J.W. Patrick, C. Snape, R.M. Poultney, M.A. Diez, C. Barriocanal*

P4 Geochemistry and petrography of Oligocene bituminous coal from the Jiu Valley, Petrosani Basin (southern Carpathian Mountains), Romania. *H. E. Belkin, S. J. Tewalt, J. C. Hower, J.D. Stucker, C. A. Tatu, G. Buia*

P5 Separation of macerals using columns of flotation. *A. Blandón, J. M. Barraza, J. L. Piñeres*

P6 Evidences of the importance of the inertinites in the process of hydrocarbon generation. *A. Blandón*

P7 Thermal maturity pattern in the Stephanian rocks of the Sabero coalfield (NW Spain). *D. Botor*

P8 Distribution of trace elements of the seams and behaviour of mercury during combustion test of coals the Cesar – Ranchería Basin (Colombia). *I. Carmona López, W. A. Morales Yepes*

P9 Maceral analysis of mineral-rich coals under white light and uv light: differences and suggestions. *Z. Correa Carretta da Silva*

P10 Genesis and rank distribution of Upper Carboniferous coal basins in the Cantabrian Mountains, Northern Spain. *J. R. Colmenero, I. Suárez-Ruiz, J. Fernández-Suárez, P. Barba, T. Llorens*

P11 Petroleum and source rock characterization correlation based on C7 light hydrocarbon technique: Example from Neogene coal Strata in Northwestern Taiwan. *L.-H. Lin, C. Chang, S.-H. Wu*

P12 Study of coal surface characteristics for CO_2 geological storage. *D. Charrière, Z. Pokryszka, P. Behra*

P13 Compositon of high-alumina fly ashes from the Jungar Power Plant, Inner Mongolia, China. *S. Dai, L. Zhao, C.-L. Chou*

P14 Development of anisotropic components and degree of bonding at the interface in cokes from different coking coals. *E. Díaz-Faes, C. Barriocanal, M.A. Diez, R. Alvarez*

P15 Soil contamination from the coking process in an experimental plant: trace elements. *M. Díaz-Somoano, M. Calvo, M. A. López-Antón, S. Suárez, R. García, S. R. Moinelo, I. Suárez-Ruiz, M. R. Martínez-Tarazona*

P16 Anisotropic carbon formation in semicokes from coking coals and plastic wastes. *M. A. Diez, C. Barriocanal, R. Alvarez*

P17 Petrographic assessment of organic material associated to Pectolite deposits in Dominican Republic, implications for its genesis. *J. A. Espí, Á.G. Borrego*

P18 Petrological and Geochemical study of the Central Sector of the Lusitanian Basin (Portugal). *D. Flores, A. Guerner Dias, R. Silva, J. G. Mendonça Filho, M. M. Marques*

P19 Buçaco Basin (Portugal): a multidisciplinary approach on stratigraphy, structure, lithogeochemistry and organic petrology. *D. Flores, L. C. Gama Pereira, M. A. Ribeiro, I. Bobos, J. Ribeiro, B. Pina, M. M. Marques, A. Pinto de Jesus*

P20 Oil shale vs. coal products from Puertollano Basin (Spain) obtained by pyrolysis in closed-system. A maturity evaluation. *N. Franco, S. Barrionuevo, M. L. Kern, M. C. Peralba, W. Kalkreuth, Á. G. Borrego*

P21 Molecular and organic petrological characteristics of Permian bituminous coals in the Boskovice Basin, eastern Bohemian Massif. *E. Francu, J. Francu, I. Sýkorová*

P22 Preliminary Characterization of Eocene Pesca tar sands, Colombia. *O. P. Gómez Rojas, Á. G. Borrego*

P23 Geochemical characterization of Jurassic source rocks from Cuba. *M.González Blanco, W. Kalkreuth*

P24 The in situ preservation and paleoenvironmental assessment of Taxodiacea fossil woods in the Bükkalja Lignite Formation, Bükkábrány open cast mine, Hungary. *M. Hámor-Vidó*

P25 Thermal altered coals in self-combusted mine dump from Upper Silesia Coal Basin. *B. Hanak, J. Nowak*

P26 Concentration and distribution of trace elements in the coal from 308 coal seam (the Orzesze beds) of the Upper Silesian Coal Basin. *B. Hanak, M. Kokowska-Pawłowska*

P27 The mineralogy of some coals and associated sediments from the South Wales Coalfield, U.K. *S. R. Hassan Baqri*

P28 Depositional environment of a Cretaceous coal layer on top of bauxite deposits in Parnassus-Ghiona unit, Central Greece. *S. Kalaitzidis, G. Siavalas, N. Skarpelis, K. Christanis*

P29 Polish bituminous coals - a petrological study. *K. Kruszewska, I. Jelonek*

P30 The TGA and DMA studies of blends from very good coking Polish bituminous coal and various porous carbons additives. *M. Krzesińska, U. Szeluga, Ł. Smędowski, J. Zachariasz, S. Pusz, S. Czajkowska, B. Kwiecińska*

P31 Coal Seam Fires: Properties of oxidative and thermally altered coals from Wuda Coalfield, Inner Mongolia, China. *J. Kus*

P32 Occurrence of gagate (jet) in the vicinity of Bolesławiec (Upper Cretaceous- Lower Silesia). *B. Kwiecinska, B. Jarema*

P33 Variation of anthracite structure during oxy-combustion in a drop tube reactor at different burnout. *A. J. Martín, Á. G. Borrego*

P34 Assessment of the quality of coals for Integrated Gasification Combined Cycle (IGCC) performance: Example from Indiana (Illinois Basin), USA. *M. Mastalerz, A. Drobniak, J. Rupp, N. Shaffer*

P35 Microwave energy as a potential technology for coke manufacture. *M. Mediero, E. Lester, S. Kingman*

P36 Chemical structure of semifusinite and fusinite from seams 505 and 505/1 of the Upper Silesian coal basin (Poland) and its changes during heating under inert conditions in the view of Micro-FTIR examination. *R. Morga*

P37 Preliminary Coal Petrographic Analyses of the Neogene Achlada Lignite Deposits (NW Greece). *I. Oikonomopoulos, G. Kaouras, P. Antoniadis*

P38 Petrographic characteristics of some Romanian high volatile bituminous coals and solid byproducts resulted during their pulverized combustion in a power plant. *C. Panaitescu, G. Predeanu, M. Miu*

P39 Petrographic research applied to small size xylites briquetting. *G. Predeanu, C. Panaitescu*

P40 Application of asphaltenes for the determination of the maturity of the petroleum source rocks from La Luna Formation, Maracaibo Basin, Venezuela. *L. Probst de Castro, N. del Valle Franco Rondón, L. López, S. Lo Mônaco, G. Escobar, W. Kalkreuth*

P41 Geothermal regime of the West Siberian sedimentary basin. *N. V. Pronina, M. V. Golitsin, E. A. Shitova*

P42 Transformation of a coke structure during a reaction with CO_2. *S. Pusz, M. Krzesinska, Ł. Smędowski, B. Pilawa, B. Kwiecińska*

P43 Variations in mercury and unburned carbon content of fly ash from a power plant burning inertinite rich subbituminous coal deposited in a freshwater depositional environment. *J. Reyes, F. Goodarzi*

P44 Organic petrology and mineralogy of coal waste piles on spontaneous combustion from Douro Coalfield Basin. *J. Ribeiro, D. Flores*

P45 Gas Diffusion Coefficient: The calculation of the Tangent Slope Accuracy through Inflection Point Determination. *C. F. Rodrigues, M. A. P. Dinis, M. J. Lemos de Sousa*

P46 Development of a model to estimate the CO_2 storage potential of eastern Australian coals. *A. Saghafi*

P47 Coal seam reservoir properties of the South Sumatra Basin and CBM exploration. *A. Saghafi, I. Sosrowijojo*

P48 Research on the relationship between the petrography of the coal from the Riosa area (Central Asturian Coal Basin) and its methane adsorption capacity. *J. Sastre Álvaro, I. Suárez-Ruiz, A. Arenillas González, M. A. Zapatero Rodríguez*

P49 Sequence stratigraphy and coal accumulating model of paralic coal measures. *L. Shao, J. Lu, H. Wang, P. Zhang*

P50 Particle-induced oxidative damage of indoor PM10 from homes in the lung cancer area in Xuanwei, China. *L. Shao, Y. Yang, M. Wu, Z. Xiao, L. Zhou*

P51 Comparison between maceral and visual kerogen compositions in argillaceous rocks in Japan. *M. Shimofusa, T. Kakuta, H. Maeda, Y. Ujiié*

P52 Genesis of Indian Tertiary lignites - Palyno-petrological evidences. *A. Singh, B. D. Singh*

P53 The specific properties of Mesozoic coal formation in Western Trans-Baikal region. *I. E. Stukalova, Y. G. Tsekhovsky*

P54 Petrographic characteristics of the Stephanian coals of the Cantabrian Mountains (NW Spain). *I. Suárez-Ruiz, T. Llorens, J. R. Colmenero, J. Fernández-Suárez , P. Barba*

P55 Towards an ICCP Classification of Fly Ash Components. *I. Suárez-Ruiz, B. Valentim, A.G. Borrego, A. Bouzinos, D. Flores, S. Kalaitzidis, M. L. Malinconico, M. Marques, M. Misz-Kennan, J. R. Montes, G. Predeanu, G. Siavalas, N. Wagner*

P56 Gas seeps and mud volcanoes in southwestern Taiwan: implication for hydrocarbon potential. *C.-H. Sun, C.-L. Kuo, S.-C. Chang, J.-C. Wu, S.-H. Wu*

P57 Characterization of coal and coal combustion products from a power plant utilizing high-sulfur coal from the Northern Appalachian Basin. *S. M. Swanson, D. Polyak, L. F. Ruppert, A. Kolker, H. E. Belkin, R. H. Affolter*

P58 Quantification and source of emitted carbon particles in soils and sediments from the downtown Prague exposed areas. *I. Sýkorová, M. Havelcová, V. Machovič, B. Kříbek, H. Trejtnarová, P. Matysová, M. Vašíček*

P59 Petrological implications in the development of Coal Bed Methane pools in India. *K. Verma, R. Saxena*

P60 Dependence of carbon dioxide sorption on petrographic composition of bituminous coals from the Czech part of the Upper Silesian Basin, Czech Republic. *Z. Weishauptová, I. Sýkorová*

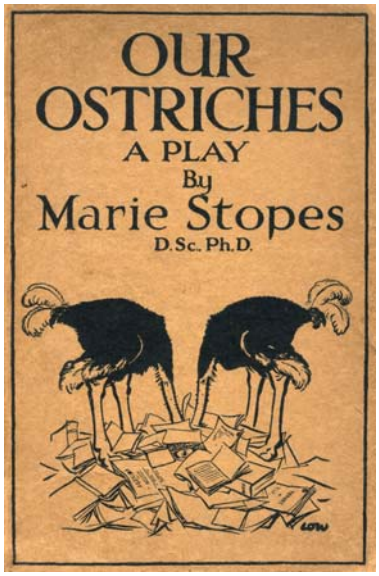
P61 The geochemical characteristic and correlation of gas seepages in Chiayi-Tainan Foothill, Taiwan. *S.-H. Wu, R. Chen, C.-L. Kuo, J.-C. Wu, C-H. Sun, T.-Y. Wu*

P62 Mineralogy, petrography and elemental contents of Orhaneli coals, Bursa-Turkey. *U. O. Yerin, A. I. Karayigit*

P63 Mineral transformation during typical high aluminum coal combustion. *Y. Zhao, J. Zhang, F. Ding, H. Yan, C. Zheng*

The following companies will have stands during the meeting to present the advances of their products in relation to organic petrology:

- LEICA MICROSYSTEMS
- Conwy Valley Consortium Ltd.
- CRAIC Technologies, Inc.
- Carl H. Hilgers. Technisches Büro



Our Ostriches was first performed at 'The royal Court Theatre', London on Wednesday, November 14, 1923.

Agenda for the Council Meeting 60th ICCP Meeting in Oviedo, Spain, 21st - 27th September 2008

Council Meeting at 10:00 on 21st September at Prince Philip Auditorium resuming at 19:00 on 23rd September if required.

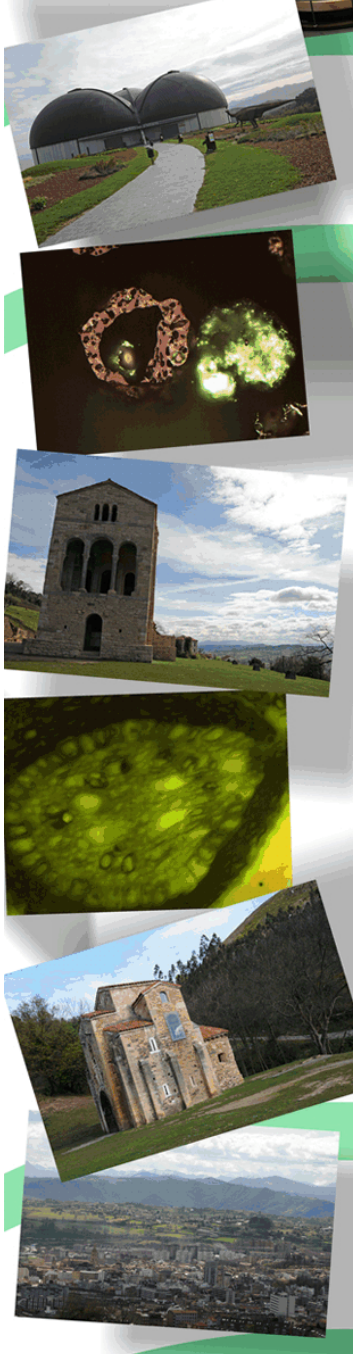
1. **Apologies for non-attendance**
2. **Minutes of Previous Meeting**
   - 2.1 Minutes of Council Meeting
   - 2.3 Arrangement of the Agenda
   - 2.4 Business arising from the minutes.
3. **Arrangements for the Oviedo meeting**
4. **Future meetings**
   - 4.1 Porto Alegre Brazil, 2009.
   - 4.2 Invitation to a meeting in 2010 in Belgrade, Serbia
5. **Membership**
   - 5.1 Applications for Associate Membership
   - 5.2 Applications for Full Membership
   - 5.3 Application for Institutional Membership
   - 5.3 Admissions made between meetings
   - 5.4 Resignations
   - 5.5 Membership Directory
   - 5.6 Honorary Members 2008
   - 5.7 Other membership matters
6. **Awards**
   - 6.1 Thiessen Medal Award
   - 6.2 Organic Petrology Award
   - 6.3 Composition of the Organic Petrology Award Committee (Discussion of Marc Bustin Proposal)
7. **Financial matters**
   - 7.1 Treasurers Report
   - 7.2 Currency for quoting prices
   - 7.3 Financial procedures
   - 7.4 Budget 2008/2009
8. **Editor**
   - 8.1 Activities for 2007/2008
   - 8.2 Proposals for 2008/2009
9. **Website**
   - 9.1 Site design and maintenance
   - 9.2 Activities in 2007/2008
   - 9.3 Proposals for 2008/2010
10. **New Handbook*** (to be dealt with in Com I)
    - 10.1 Activities in 2007/2008
    - 10.2 Proposals for 2008/2009
11. **Elections**
    - 11.1 Nominations for elections 2008/2009
12. **Registration of ICCP**
13. **Accreditation Program**
14. **ICCP Training Activities**
15. **Relations with TSOP**
16. **Feedback from members**
17. **Other business**

INTERNATIONAL CONFERENCE ON COAL AND ORGANIC PETROLOGY

ICCP - TSOP

COMMITTEE FOR COAL AND ORGANIC PETROLOGY • INTERNATIONAL • ICCP

TSOP
The Society for Organic Petrology



PROGRAM

OVIEDO, SPAIN

SEPTEMBER 21-27, 2008

grupohunosa

ChemLabor

Industrial Química del Nalón, S.A.
NalónChem

FICYT

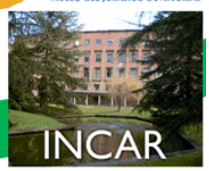
Facultad de Geología Universidad de Oviedo

AYUNTAMIENTO DE OVIEDO

AUDITORIO PRÍNCIPE FELIPE PALACIO DE CONGRESOS OVIEDO

MUJA MUSEO DEL JURÁSICO DE ASTURIAS

GOBIERNO DE ESPAÑA
MINISTERIO DE CIENCIA E INNOVACIÓN
CSIC CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS



Membership Matters

Dr Rosa Menéndez moves up!

Rosa Menéndez has been promoted to the position of vice-president for Science and Technology Affairs of the Spanish Council for Scientific Research (CSIC in Spanish acronym). As Vice-president she will be responsible for the research programs, the research infrastructure, the technology transfer to industry and the postgraduate programs of the largest research public institution in Spain. CSIC comprises 134 research centres belonging to areas as different as history, materials science, chemistry, physics, biology or geology. It is a challenging position in which she will have the chance to design the research, educational and technological policies of the Institution and to bring her management experience acquired during the years as leader of the Instituto Nacional del Carbón in Oviedo. Rosa has been working in areas related to coal utilization by-products and carbon materials and has often made use of petrographic techniques in her research work.

Rosa joined the ICCP at the Meeting in Aachen and since then she has been for many years secretary and chair of Commission III finishing her turn last year in Victoria. The ICCP has benefited from her ability to coordinate people and bring together efforts and we wish her from these pages a very successful development in her new challenging position.

member updates

Ms Helen BEATH is taking some leave from CSIRO and can now be found at
39 Seaview Close
Eleebana
NSW 2282
Australia
mailto:helen.beath@csiro.au

Ms Elvira BARCELONA has moved from Coal and Organic Petrology Services to Linc Energy:
Coal Technologist
Linc Energy
AMP Place
Level 7 - 10 Eagle Street
BRISBANE QLD 4000
Phone: +61-7-3229 0800
Fax: +61-7-3229 6800
Mobile: 0448 998 129
mailto:eb@lincenergy.com.au
Website: http://www.lincenergy.com.au

Gerd and Gisela BIEG have new email addresses
Gerd - mailto:gbieg@t-online.de
Gisela - mailto:mikro-un@t-online.de

After 16 years with CSIRO, **Joan ESTERLE** has changed careers to join GeoGAS Pty Ltd in Wollongong.
Dr Joan Esterle
GeoGAS Pty Ltd
103 Kenny St, Wollongong NSW
mailto:jesterle@GeoGas.com.au
ph. +61-4 4845 0152 (mobile)

Mr Paul HACKLEY has advanced from associate member to full member. Congratulations!

Dr. Magdalena Misz has a new surname, she is now **Magdalena MISZ-KENNAN**.

João Graciano is now Director of Geoscience Institute (IGEO) and Vice-Dean of the Center of mathematical science and nature (CCMN), Federal University of Rio de Janeiro, Brazil. His new address is:

Prof. Dr. João Graciano MENDONÇA FILHO
Diretor do Instituto de Geociências
Vice-Deacano do Centro de Ciências Matemáticas e da Natureza
CCMN Universidade Federal do Rio de Janeiro
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re-admission

Ms Lorraine EGLINTON (Comm. 2)
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USA
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Lorraine Eglinton has a BSc. Geology (Hons) and MSc. in Organic Petrology from the University of Newcastle. She has worked extensively at the Department of Marine Chemistry and Geochemistry, Woods Hole Oceanographic Institution but now managers her own company. Many people will already know Lorraine from her time as TSOP Secretary/Treasurer. Research interest include: organic matter characterization and thermal maturity determination; correlation of molecular organic properties and morphology of kerogens; the role of temperature, time and pressure on the organic geochemical and petrological properties of organic matter and; analysis of xenobiotic compounds in the marine environment. She has co-authored around 25 refereed publications. Lorraine was a member of ICCP during the early 1990's - welcome back to ICCP!

new members

Ms Pamela Dorothy ALEXANDER (A 1, 2, 3)
TES Bretby
PO Box 100
Bretby Business Park, Ashby Road
Burton on Trent
Staffordshire, DE15 OXD
United Kingdom
ph. +44-1283-554 447
fax. +44-1283-554 423
mailto:pamela.alexander@esgl.co.uk

Ms Alexander obtained her BSc (Hons) Geology and Botany from the University of Manchester and an MSc in Palynology, University of Sheffield under the most watchful eye of Harold Smith, whom she succeeded as head of petrography at the Yorkshire Regional Laboratory of British Coal. She is currently Associate Director, Operations for Energy Services, TES Bretby, with responsibility for the financial and operational delivery of the business. Recognized national expert in coal palynology and petrography frequently involved in providing expert opinion for arbitration.

Ms Delphine CHARRIERE (A 1, 2, 3)
INERIS
Parc Technologique ALATA - BP2
60550 Verneuil en Halatte
France
ph. +33-344 618 286
fax. +33-344 556 700
mailto:delphine.charriere@ineris.fr

Ms Charriere obtained her B.Sc. and M.Sc. from the Université des sciences de Toulouse III (31) and also holds a Diploma of Advanced Studies with a specialization in liquid - solid sorption. She is currently making her Ph.D. in Characteristics of CO_2 Sorption in French Coals - Applications for CO_2 Storage in Coal Seams"at at INERIS (Institut National de l'Environnement Industriel et des Risques, France).

Ms Olga Patricia GÓMEZ ROJAS (A 1, 2, 3)
University Pedagogic and Technologic of Colombia
School of Mining Engineering
Carrera 15 N° 7 B33
Sogamoso (Boyacá)
Colombia

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fax. +57-772 3518
+57-770 7721 EXT 215
mailto:opgomez@unalmed.edu.co

Miss Gómez Rojas teaches in the Mining Engineering School of the Pedagogic Technologic University of Colombia in Boyacá. She is interested in petrographic issues related to Colombian coals and is establishing a petrographic laboratory in her department. She also has interests in Colombian tar sands which form large resources but with little knowledge about them.

Dr Roberto HEEMANN (A 2,3)

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Dr. Heemann graduated in Geology at the Federal University of Rio Grande do Sul, where he also obtained his M.Sc. and Ph.D. His M.Sc. was concerned about geological controls and prospecting for mines. His Ph.D. presented structural modelling and reserves evaluation of different ore minerals in the Paraná Basin, Southern Brazil. Currently he works at CEPAC (Carbon Storage Research Center) in the Pontifical Catholic University of Rio Grande do Sul, on projects related to CO_2 injection in coal seams associated with methane production (Enhanced Coalbed Methane - ECBM) and projects on coal properties characterization for combustion/pyrolysis/gasification, including *in situ* coal gasification to be carried out in non-mineable coal seams (Underground Coal Gasification - UCG).

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Ms Imam obtained her M.Sc. (Geology) with specialization in Coal and Oil from Ranchi University in 1987. She is currently employed at the Coal Petrography Lab ,CMPDI Ranchi where she is engaged in carrying out characterization of Indian coal and lignite for their down stream utilization, petrographic analysis of coal/lignite for source rock evaluation, carrying out detailed analysis of coal samples (mine sample and coal core) for cleat study and visual examination and observation under the Scanning Electron Microscope. She is associated with a CIL R&D project entitled "Resource assessment and characterisation study of non-coking coals for sponge iron industry".

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Mr Li has a Bachelor of Environmental Engineering from Henan Polytechnic University and a Master of Environmental Sciences from China University of Mining and Technology, Beijing. He is currently undertaking his PhD in Geological Engineering jointly between China University of Mining and Technology, Beijing and RWTH Aachen University. Mr. Li´s work is focussed on the correlation of structural parameters of coal and organic petrography, including the influence of the maceral composition on the preferential adsorption of gases.

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Dr Maitra obtained her B.Sc. (Dist. in Geology), M.Sc. and Ph.D. (in coal petrography) from Ranchi University. She has 28 years of experience in various aspects of coal petrography, particularly characterization of various types and rank of coals, its application to coal exploration, coal utilization, coal bed methane etc. She also has expertise in coal cleat study under Scanning Electron Microscope and was fundamental to the establishment of the Coal Petrography Laboratory in CMPDI. Areas of specialisation include: petrology of Indian, Australian and Indonesian coals for their characterization; source rock evaluation in oil and natural gas exploration and; coal-bed methane exploration. She has 18 publications in national seminars and journals and 30 reports on the petrographic study of coal.

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Ms Taíssa Rêgo Menezes is a petroleum geologist with emphasis in organic geochemistry and specialization in organic petrology and palynofacies. Her work involves characterization of organic matter and the evaluation of the thermal maturity of the sedimentary section in order to generate detailed maps for prospect identification and assessment of petroleum systems. She obtained an M.Sc, from the Federal University of Rio de Janeiro (UFRJ) on "Palynofacies and organic facies parameters and their application in the palaeoenvironmental reconstruction, Quaternary of the Campos continental slope, offshore Brazil"

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Despite having a B.Sc. and M.Sc. in biological science with an emphasis on environmental biology, Diana Riggs has been working as a coal petrographer for over 24 years. She commenced working for Pittston Coal Company in Beckley, West Virginia where she learned petrography in 1983 and became their senior petrographer. After a variety of other companies and positions, she has at last settled into Pearson Coal Petrography.

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Mr Sharan obtained and M.Sc. (Geology) with specialization in Sedimentary Petrology from Ranchi University. At present he is Deputy Superintending Geologist in Coal Petrography Lab of CMPDI. The main area of present work is petrographic characterisation of non-coking coal for blast furnace use. In addition he carries out on regular evaluations of lignites, source rocks, mineralogical studies and cleat studies related to coal bed methane evaluation.

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Prof. Dr Yoshihiro Ujiié has over 40 publications and 10 book contributions in diverse areas of geology, including organic geochemistry, kerogen analysis, thermal history, regional geology, petroleum geology and so on. He obtained his B.Sc. and M.Sc. from the Tokyo University of Education and his Ph.D. from Hokkaido University.

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Mr Igor Viegas Alves Fernandes de Souza has a B.Sc. and M.Sc. from the Federal University of Rio de Janeiro (UFRJ), Rio de Janeiro. He works as an organic petrographer at the Petrobras Research and Development Center whe he is responsible for microscopic analysis to study the quality of the organic matter, as well as the thermal maturity of a sedimentary section sampled recovered by an sedimentary section.

institutional members

Tata Steel Limited

Chief, Research &Development and Scientific Services
The Tata Steel Limited
Jamshedpur- 831007
Jharkhand , India

Tata Steel Ltd is an internationally renown company based in India. The Research & Development Division of Tata Steel Limited, Jamshedpur, hosts numerous conferences and technical meetings. The Raw Material and Coke Making Research Group of the R&D Division is actively engaged in the research of coal beneficiation, coal characterization and coke making. They have excellent facilities for coal and organic petrology and coke making research. Researches from Tata have been actively involved in ICCP activities over many years, especially in working groups dealing with:

- Coke Petrography
- Combustion
- Coal Blends
- Automation
- Inertinite in Combustion
- A New Approach to Study the Coal Cleat System by Image Analysis
- Structural Order

Tata Steel Ltd has nominated the following people to receive correspondence from ICCP and to attend the Annual Meeting:

1. Dr. Alok Kumar Singh
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mailto:singhalokk@vahoo.co.in
2. Dr. P.K. Banerjee
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If applicable please update your contact details with the General Secretary.

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ICCP Awards and Calls for Nominations

ICCP offers a number of awards to recognise outstanding achievements in coal and organic petrology at various stages of career development. Awards available and a brief summary are given below. Full details on the nature of the award, its terms and conditions and how to apply can be found on the ICCP home page at http://www.iccop.org or by contacting the chair of the award committee (see inside front cover).

Organic Petrology Award

The Organic Petrology Award recognises outstanding contributions by coal and organic petrologists at an intermediate stage of their career. It is limited to applicants under 50 years of age. The award consists of a bronze medal and a certificate. Awards are made from time to time but applications are called for every 2 years.

The award committee currently consists of the Thiessen Medal Committee as a transitional arrangement. Eventually, the award committee will consist of the five most recent recipients but to date only two awards have been made.

Nominations are for the 2008 award closed on June 30, 2008. For details of procedures and nominations, contact:

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Thiessen Medal

This is the highest award offered by ICCP. It recognises a lifetime of achievement and outstanding contributions in the fields of coal and organic petrology. The award consists of a bronze medal. The award committee consists of the five most recent medallists. Awards are made from time to time but applications are called for every 2 years. No nominations will be accepted in 2008.

ICCP Services

★ ICCP Reflectance Standard

Check the calibration of your reflectance standard against the ICCP standard!

For more information contact the Commission I chair:

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★ Accreditation Programs

- Maceral Group Analysis of Coals
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- Vitrinite Reflectance of Coals
  convenor: Dr Kimon Christanis
- Coal Blend Analysis
  convenor: Dr Isabel Suárez Ruiz
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For more information, contact the convenors of the programs.

News from Commission I

Microlithotype Analysis of Brown Coal/lignite - A Proposal

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Preamble

It is observed that macerals commonly occur in association with one another in coal. This association in known as microlithotype and it characterizes the visibly different types of coal. In fact, the study of microlithotypes was initially introduced to understand the technological applications of macerals in coking coal. However, Hacquebard *et al.* (1967), Marchioni (1980), Teichmüller (1962a, 1989), Smyth (1984) and other workers have successfully used microlithotype analysis for deciphering various depositional facies. Of course, they have taken into considerations the factors *viz*.– nature and quantitative distribution of macerals, maceral types and maceral varieties; quantity of mineral inclusions and their types; and the texture (Taylor *et al.*, 1998).

Proposal for introduction of Lignite microlithotype

As a matter of fact, the usage of microlithotype analysis is confined to hard coals. It appears that there must be some technical constraints, particularly in applicability, that has limited this concept to only hard coals. However, the authors feel that with some modifications in the mode of conventions it can be applied to even brown coals, especially in deriving indices for the reconstruction of paleodepositional conditions of lignites. To our mind, the kind of modification in convention factors required for brown coals could be the 50 μm band width because lignite is relatively less compact and less stratified than the hard coals. A scheme of classification has been conceived as presented in table-1. In the proposed classification the band width is taken same as in the case of hard coal, i.e. 50 μm. The classification of carbominerite in case of lignite may be same as considered for hard coals.

References

Hacquebard,P., Birmingham, T.F. & Donaldson, J.R. 1967. Petrography of Canadian coals in relation to environment of deposition.-Proc. Symp. Sci. Techn. Coal, Ottawa, 84-87.

Marchioni, D.L. 1980. Petrography and depositional environment of the Liddell seam, upper Hunter Valley, New South Wales.- Int. J Coal Geol., **1**, 35-61.

Smyth.M. 1984. Coal microlithotypes related to sedimentary environments in the Cooper Basin, Australia-Spec. Publ. Int. Assoc. Sediment., **7**,333-347.

Taylor, G.H., Teichmüller, M., Davis, A., Diessel, C.F.K., Littke, R., Robert, P., 1998. Organic Petrology. Gebrüder Bornträger, Berlin, 704 pp.

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Teichmüller, M., 1989. The genesis of coal from the viewpoint of coal petrology. International Journal of Coal Geology **12**, 1 –87.

Table 1: Summary of microlithotypes of lignites (Brown coal)

Maceral composition (mineral free)	Microlithotype	Maceral group composition (mineral free)	Microlithotype group
Monomaceral			
TH> 95% DH> 95% GH> 95%	Telo Humite Detro Humite Gelo Humite	H > 95 %	Humite
S > 95 % A > 95 %	Sporite Algite	L > 95 %	Liptite
Sf > 95 %	Semifusite	I > 95 %	Inertite
F > 95 %	Fusite		
ID > 95 %	Inertodetrite		
Bimaceral			
H+S > 95 % H+Cu > 95 % H+LD > 95 %	Sporoclarite Cuticoclarite	H+L > 95 %	Clarite H, L
H+M > 95 %		H+I > 95 %	Huminertite H, I
H+Sf > 95 %			
H+F > 95 %			
H+ID > 95 %			
I+S > 95 % I+LD > 95 %	Sporodurite	I + L > 95 %	Durite I, L
Trimaceral			
H, I, L > 5 %	Duroclarite Huminertoliptite Clarodurite	H > I,L L > I, H I > H,L	Trimacerite H, I, L

The Development of a System Designed for Coal Petrographic Analyses

During the nineteen fifties and sixties coal petroglogical research was generously supported by the German optical industry with specialised apparatuses and optimised objectives.

The decline of the German and European coal industry led to a decline of the number of laboratories. Roughly three non operational microscope systems could be dismantled in order to assemble one efficient system; in consequence, new microscopes weren't any longer in demand and the optical industry stopped further developments. Even today, many laboratories still use Leitz Orthoplan microscopes with the Berek prism and the matchless 32 x 0.65 oil P objective.

Further improvement of the semiconductor technique led to the production of newly modified microscopes. The investigation of very thin layers was an urgent requirement, as the old objectives could not be used any more.

Some laboratories now use microscopes with photomultipliers and spectrometers, which are quite suitable for geological and mineralogical research, but not recommended for industrial use.

The Hilgers Company developed a system to integrate new microscopes for coal analyses and, in particular, reflectance measurements on the industrial scale. Since 2002, the company has continuously been upgrading its 'FOSSIL' software in close cooperation with industrial laboratories. The program enables the user to measure reflectance, count macerals or to combine both analyses in one step of process. In addition, the option of fluorescence mode, as well as technical support, are being offered.

A modified Leica microscope equipped with the FOSSIL program will be demonstrated during the forthcoming ICCP meeting in Oviedo. Participants are invited to analyse their own samples.

The company was founded in 1973 by Carl H. Hilgers. The business started with developing measurement techniques in microscopy. In 1980 the development of the first photometer for the measurement of coal reflectance based on a Leitz Orthoplan microscope with Berek prism was finished and ready for industrial use. A system of highly sensitive photo diodes replaced the formerly used photo multipliers; in addition an integrated microprocessor evaluated the measurements.

Industrial laboratories in Germany, Sweden, Finland, France, Turkey and Denmark soon used this system which was sold 18 times.

Further applications by the German coal mining industry, as installed by Carl H. Hilgers, included:

- the simultaneous measurement of the fluorescence of vitrinite
- the automated measurement of vitrinite reflectance with histogram
- the simultaneous measurement of random reflectance and min/max reflectance on vitrinite with a reflectance photometer basis

Three of these photometers are still in use at the laboratories of the German Ruhrkohle AG; they have been reliably running for more than 25 years.

In 2002 the company was called on to develop a new petrographic microscope photometer for industrial use. A Leica DM-LA was chosen as the microscope; focus and motorized stage were run through specially developed software. A digital camera with a strictly linear signal is now used for the reflectance measurement on screen. Maceral-/maceral group analysis can be performed in parallel with the reflectance analysis or individually using maceral analysis software. Four of these systems are presently used in industry.

The most recent petrographic microscope system is based on a Leica DM 4000M and DM 6000M. The mode of the integrated incident light is controlled by software that enables the user to carry out several observations or measurement on one spot during the analysis.

We sold 4 of these new systems and the last one was delivered to the laboratory of Harold Read/Walter Pickel in Australia. The incident light source and fluorescence light are on LED basis. This allows the user to look at the sample in fluorescence mode and/or to store the image during an ongoing reflectance measurement.

Carl H. Hilgers
Germany

Know Your Coal Petrologist #34

The Mackowsky Symposium in Utrecht in 2003 brought out a range of the usual suspects - here are three more of them. Answer page 26.

News from the Archives

The ICCP Archives have received from Dr. A.H.V. Smith a set of "Coal Microscopy Slides" used for training purposes as well as slides prepared for various ICCP working groups. The 35mm slides set, a total of 204 slides, includes aspects from:

(i) Polished surfaces by reflect light and in fluorescence mode;
(ii) Thin sections by transmitted light; and,
(iii) Coals from UK sources unless otherwise stated.

The list given by Dr. A.H.V. Smith is as follows:

1. Coals, Cokes, processed fuels (Phurnacite, Homefire, Coalite, Multiheat and Sunbright) and industrial dust (mounted/polished) from domestic property - 31 slides
2. Thin sections of Coals to show Thiessen Bureau of Mines Nomenclature - 1 slide
3. Resinite investigations using fluorescence and etching.
   A. ICCP 1982 Porto - 12 slides
      a. Reflectance before and after excitation in blue light - 3 slides
      b. Fluorescence after excitation in blue light - 1 slide
      c. Polished thin section. Same field viewed by transmitted and reflected light and in fluorescence mode. Swallow Wood seam, Hickleton Colliery, S. Yorks - 3 slides
      d. Low rank coal (Ro c 0.4) from Parkgate Seam, Stathern BH, Belvoir Coalfield. Note high reflecting cell contents cf. Phlobaphinite - 2 slides
      e. Effect of etching on Resinite in coals of Ro 0.4, 0.75 and 0.80 - 4 slides
   B. ICCP 1983 Calgary - 9 slides
      - Photos of Plates for publication in 3rd supplement to 2nd edition of Glossary;
      - Plate to accompany questionnaire to identify resinous bodies;
      - Diagram of reflectance ranges.
4. Sapropelic Coals - 7 slides
   Boghead, Cannel and Torbanite (fluorescence). 5 named seams and collieries from UK + S African Boghead. Some photos at high magnification to show nature of matrix material.
5. Rank Series - 29 slides
   Soft Brown Coal - Anthracite Ro 0.38 to > 2.0 - 29 slides from named seams and collieries on the table which follows.
6. Maceral, Microlithotype and mineral matter - 29 slides
7. Coals from sources other than UK - 16 slides
   Botswana Morapule Main - Trimacerite
   China Jining Shandong Ro 0.75 - 2 slides
   Colombia Ro 0.63 - 2 slides
   Greenland Cretaceous - 2 slides
   Indonesia Sulawesi - 2 slides
   Nigeria - Alginite, resinite, clarite, trimacerite
   Sardinian Tertiary - 2 slides
   Sinai Maghara
   Venezuela Hydrite/degradinite? Slide with P. Crosdale
8. Set of slides originally prepared by DG Murchison and copied, showing Ro gradients in British Coalfields and their associated geology - 59 slides
9. Slide of Marie Stopes at ICCP Nomenclature Committee meeting Paris 1957.

The last slide is shown above and on the cover of ICCP News #43. ICCP would like to express its gratitude to Dr. A.H.V. Smith for having the kindness to offer all this material to the ICCP Archives. They will certainly become more enriched.

Table of Rank Series Slides

Slide	Rank Category	Colliery	Coalfield	Seam(s)	Ro %	Magnification
1 & 2	Soft Brown Coal					x50 oil
3 & 4	Lignite					x50 oil
5	Jurassic Coal					x50 oil
6	Sub Bituminous	Desford	S. Derbyshire & Leics	?	0.38	x50 oil
7		Ellistown Main	S. Derbyshire & Leics	?	0.41	x50 oil
8		Ellistown Main	S. Derbyshire & Leics		0.41	x125 oil
9	High Vol. Bit.	Lea Hall	Cannock Chase	Bass	0.63	x50 oil
10		Lea Hall	Cannock Chase	Bass	0.63	x125 oil
11 & 12		Hatfield	Yorkshire	washed smalls. Seams: Barnsley/Haigh Moor	0.7	x50 oil
13		Hatfield	Yorkshire			x125 oil
14 & 15		Brodsworth	Yorkshire	washed smalls. Seams: Barnsley/Dunsil/ Thorncliffe/Parkgate	0.81	x50 oil
16		Brodsworth	Yorkshire	?		x125 oil
17		Elsecar	Yorkshire		0.81	x50 oil
18		Elsecar	Yorkshire			x125 oil x10 eyepiece
19		Elsecar	Yorkshire			x125 oil x6.3 eyepiece
20		Orgreave	Yorkshire	Swallow Wood	0.85	x50 oil
21		Treeton	Yorkshire	washed smalls. Seams ?	0.92	x50 oil
22			Yorkshire			x125 oil
23	Medium Vol.	Corton Wood	Yorkshire	Silkstone	1.02	x50 oil
24			Yorkshire			x125 oil
25 & 26	Low Vol.	Tilmanstone	Kent	?	1.07	x50 oil
27		Tilmanstone	Kent	? (Carb. Shale)		x50 oil
28	Anthracite	Cynheidre	S.Wales	?	>2.0	x50 oil
29		Cynheidre				x50 oil xnicols

Answer to Know Your Coal Petrologist #33 & #34

Alas, it is again **Duncan Murchison** in his 3rd, record appearance as KYCP (#33). One wonders if the audience was also asleep. However, I have heard on good authority of at least one occasion in which Duncan was indeed asleep but was nevertheless able to provide a pertinent answer to an unexpected question from the floor.

Despite Duncan's efforts to keep his audience entertained, **Marco Ercegovac** and **Monika Wolf** have become distracted by **Claus Diessel** (KYCP #34) who tries to convince them that the fish really was that big. At least not all of those assembled were actually asleep!

ICCP Classifieds

A free service to ICCP members. Send your 'For Sale', 'Wanted to Buy', 'To Give Away' etc. to the editor.

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Definition of Coal

from Stopes, M.C. and Wheeler, R.V. (1918) Monograph of the Constitution of Coal. Department of Scientific and Industrial Research, London. 58pp.

In the voluminous literature we have come across no satisfactory general definition of coal. A definition in simple terms is therefore suggested, though it is recognised that it will be very easy to criticise it.

The terms "mineralised plants" and "mineral fuel," so long and so widely used to describe coal (*see, for example*, GREEN *et alia* 1878), convey a suggestion concerning its nature which is far from the truth.

Ordinary coal is a compact, stratified mass of "mummified" plants (which have in part suffered arrested decay to varying degrees of completeness), free from all save a very low percentage of other matter. Veins, partings, etc., which are found in nearly all coals, are local impurities and are not part of the coal itself.

It is to be noted that according to this definition, unless the accretion of the plant substance is so pure and free from other matter (mineral detritus, etc.) as to be *substantially a deposit of plants alone*, it is not a coal. Cannels form a partial exception to this rule; in these both the micro-animals of plankton and occasional fish were involved at times in the accumulation. In the formation of ordinary bituminous coal, animals, save through accidental entombments, played no part. Some oil-shales differ from some coals only in having mineral debris in a substantial proportion mingled with their organic material. Thus, when the potential coal-debris was permeated with excess of detrital matter it ceased to be possible for it to become a coal, and it became either an oil-shale, a carbonaceous shale, or a mineral shale, sandstone or clay with isolated fossils in it, varying in its character according to the proportions of vegetable and mineral matter, and the conditions of contemporaneous decay and deposition.

Reference cited:

Green, A.H., Miall, L.C.,Thorpe, T.E., Rucker, A.W. and Marshall (1878) Coal: Its History and Uses. London. 363pp.

Can one sleep too much? Rarely. Perhaps very bored old and retired people may do so: they should follow the Spanish proverb and "borrow the pillow of a debtor".

Stopes, M. C. (1956) Sleep. Chatto and Windus, London. 154pp.

WHAT'S HAPPENING

26 - 29 August 2008

7th European Coal Conference, Lviv, Ukraine
Contact: Dr. Andriy Poberezhskyy,
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http://www.geofuel.lviv.net

21 - 27 September 2008

ICCP / TSOP Meeting, Oviedo, Spain
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29 Sept. - 2 Oct. 2008

25th Annual International Pittsburgh Coal Conference, Pittsburgh, PA, USA
http://www.engr.pitt.edu/pcc/2008%20Conference.htm

2 - 8 November 2008

XI Latin American Congress on Organic Geochemistry, Isla de Margarita, Venezuela
http:// www. alago.com.br

16 - 19 September 2009

Third Symposium on Gondwana Coals, Porto Alegre, Brazil.
Contact: Zuleika Caretta
mailto:zuleika.carretta@pucrs.br

19 - 27 September 2009

ICCP / TSOP Meeting, Gramado (Porto Alegre), Brazil.
Contact: Wolfgang Kalkreuth
mailto:wolfgang.kalkreuth@ufrgs.br

Planned Future ICCP Meetings

2010 Belgrade, Serbia

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