

ICCP NEWS



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10TH ICCP COURSE: DISPERSED ORGANIC MATTER – INTEGRATING TRANSMITTED AND REFLECTED LIGHT MICROSCOPY

Held at GeoLab, Helmholtz Centre Potsdam,
German Research Centre for Geosciences,
26-30th June 2017



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69th ANNUAL MEETING OF THE ICCP SEPTEMBER 3–9 2017, ROMANIAN ACADEMY LIBRARY, BUCHAREST, ROMANIA

Unirea underground salt mine in Slănic Prahova, with internal folds within the Miocene salt structure – ONE OF THE PROPOSED STOPS IN THE ICCP FIELD TRIP



**MAKE SURE YOU
ARE REGISTERED**

Under the Auspices of  ACADEMIA ROMÂNĂ	Organizers  UNIVERSITATEA DIN BUCUREȘTI LIBRARY OF EXPERTISE	Co-organizers  MINISTERUL EDUCAȚIEI ȘI CERCETĂRII ȘTIINȚIFICE ANCS
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INSTITUTIONAL MEMBERS



ICCP WEBSITE

<https://www.iccop.org>

Please send any feedback, comments, and uploads to Stavros Kalaitzidis

<mailto:skalait@upatras.gr>

The ICCP Newsletter, ISN 1445-4793 (1445-4858 online) is distributed 3 times a year, & welcomes contributions from members & non-members. The minutes of the Annual Meeting are published in the final issue each year, & the program for the Annual Meeting is included mid-year. The Newsletter is distributed to all members & is available on the open area of the webpage. This enables anyone interested in the science to obtain exposure to the ICCP activities. ICCP application details are available on the website, or contact the General Secretary, Walter Pickel. walter.pickel@organicpetrology.com

EDITORS COLUMN

The year is half done and the annual ICCP Meeting is drawing near. All the information pertaining to the meeting can be found in the Newsletter (from page 5), and of course on the webpage. I hope that you have all registered and booked your accommodation? Georgeta Predeanu, the Organizing Committee Chair person in Bucharest, told me that an excellent program has been put together and that the registration of delegates is progressing very well. Over 50 poster presentations and 14 oral presentations will take place during the Symposium, as well as the Round Table discussion later in the day.

At last I have a few contributions from members for inclusion into the Newsletter, which I hope makes for interesting reading. But unfortunately there are still no abstracts from students who have completed their studies. I hope that there are still students at universities undertaking research into organic petrology? Please can all academic supervisors encourage their students to submit extended abstracts of their research, even if they are not ICCP members. I am pleased to announce that Maseda Mphaphuli, an ICCP Course Student Travel Grant awardee in 2016, has passed her MSc with distinction. Mr Nendouvhada, the other Student Travel Grant awardee in 2016, is still awaiting final examination feedback. These student's extended abstracts were included in the previous Newsletter.

Congratulation to all who have received their CBAP (Coal blend Accreditation Program) accreditation. If you have not heard about your outcome, please contact Isabel Suarez-Ruiz (isruiz@incar.csic.es). Please note that all the website and email addresses in the Newsletter are hyperlinked, so you can just click on them to access the site / email (if you are on-line).

I look forward to seeing you all in Bucharest.

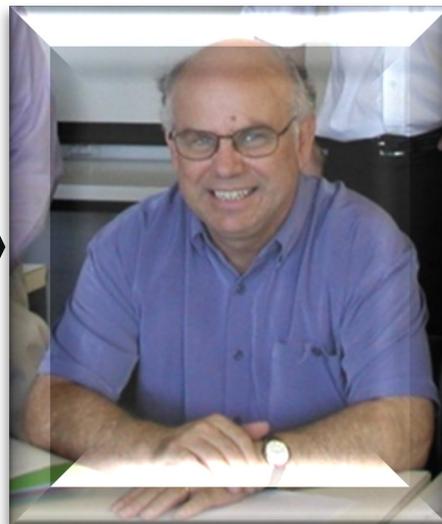
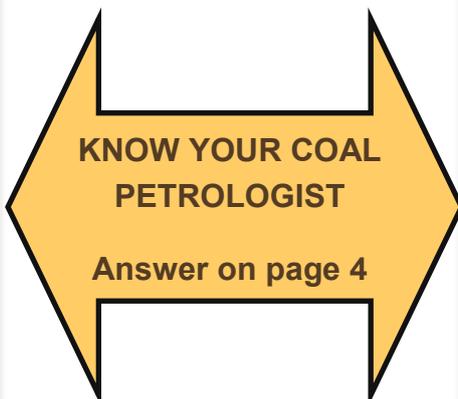
Best wishes, Nikki (Ed)

PLEASE NOTE:

**Deadline for next ICCP Newsletter
17 November 2017**

The ICCP Meeting minutes and Working Group progress will be published in this next edition of the Newsletter.

All are welcome to submit short research synopses, articles, images, classifieds, etc.



PRESIDENTS COLUMN

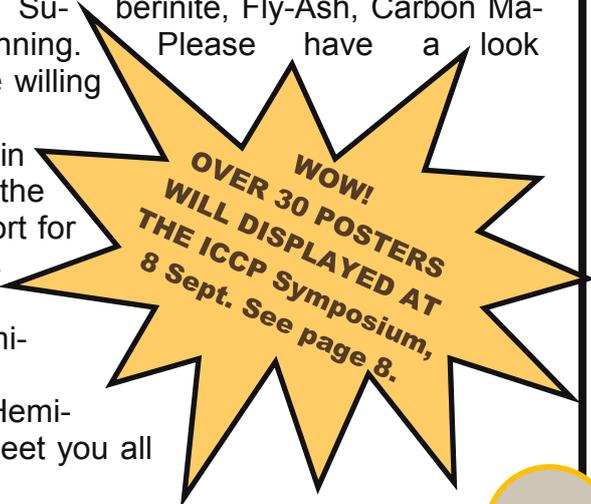
You have in your hands the mid-year Newsletter of 2017 with the detailed program of the forthcoming ICCP meeting. I would like to thank Georgeta Predeanu and her organizing team for every effort to ensure a fruitful and successful meeting in Bucharest. In the meantime the ICCP course in Potsdam took place and the 2016-2017 Accreditation round has been completed with the evaluation of the Coal Blends Accreditation Program. Both are very relevant activities within the ICCP, which are well consolidated.

At this time of the year you might have received if you are enrolled in the activities of any of the working groups active within the ICCP, samples and instructions to perform exercises. It is normally close to the the meeting when the activities within the working groups are re-activated. Please be aware that many convenors are expecting your results and that the achievements of the working groups largely rely on the effort put by participants. I may forget some, but at least the WGs on Palynofacies, Suberinite, Fly-Ash, Carbon Materials and Standardization have an exercise running. Please have a look of the webpage and contact the convenors if you are willing to participate on any of the working groups.

I would like to join the Editor's call for participation in the Newsletter. We are having a lot of activities within the working groups, I whilst I know that preparing a report for the Newsletter will be an extra work for the convenors it is important for those who are not attending the meetings and it is also a way to facilitate the dissemination and citation of the ICCP work.

I wish you a successful summer in the northern Hemisphere and winter in the southern one and wish to meet you all in Bucharest.

Angeles G. Borrego



ICCP Student Travel Grant awardee 2017

ICCP Student Travel Grant awardee 2017 was awarded to

Mr. Delano G. Henry, PhD. Student,

from the Kingston University, London, UK. Mr Henry was selected from 11 applicants to attend the ICCP Training Course in Dispersed Organic Matter – Integrating transmitted and reflected light microscopy, held in Potsdam, 26-30th June 2017. Mr Henry is working on the comparative use of Raman and organic petrography to study shales, with his PhD entitled: Assessing Organic Carbon Maturity Using Laser Raman Spectroscopy. He wishes to pursue a career in petroleum geology. The ICCP Student Travel Grant is awarded annually to cover costs of the course attendance and travel. 1000.00 Euros are provided to the successful candidate (on invoicing). All interested students are advised to consult the ICCP website for further information.

Congratulations

ICCP TRAINING COURSE

The 10th ICCP Training Course took place in Potsdam the last week of June. This course was special because it is the 10th one, which means that training is now a consolidated activity within the ICCP, and also because it had a very high participation. Potsdam has become a location in which the ICCP courses are regularly held (7 out of 10) and I think I express the feelings of all participants if I say that the venue, the Großer Refraktor within the Telegrafenberg, is a fantastic venue. It holds the campus for the Helmholtz Centre Potsdam of the German Research Centre for Geosciences (GFZ), where top-class research both historically and nowadays is being carried out. It is a beautiful building and a very inspiring location for our courses.

The ICCP thanks the institutions Geolab, DGGV (Deutsche Geologische Gesellschaft – Geologische Vereinigung e.V.), the Teichmüller Foundation and GFZ (the German Research Centre for Geosciences), which make possible the celebration of these courses in Potsdam and much in particular Antjie Treutler, Andreas Küppers and Hans-Martin Schulz, who put their effort in the organization and celebration of the course.

This year the course focused on the Petrology of Dispersed Organic Matter, examined both in transmitted and incident light, with particular emphasis in the integration of the information from both observation modes. This is the third one devoted to dispersed organic matter within the series of ICCP Courses. The course covered identification of palynofacies components and macerals, as well as the procedures for the quantification of various components. Determination of source rock maturity, geochemical and optical parameters, identification of vitrinite and measurement of vitrinite reflectance were carried out and difficulties and common mistakes were discussed. The practical sessions were conducted using a microscope with image pro-

jection, equipped with the FOSSIL software for reflectance measurement. Students were able to perform their analysis on pre-scanned calibrated images using the FOSSIL software with a high level of agreement. The microscope system was provided by Hilgers Technisches Büro, who also sponsored our get-together dinner on Tuesday evening.

The course finally had 19 participants, close to the capacity of the room and for some time a waiting list had to be organized. Among the participants around one fourth had taken part in previous ICCP courses, which indicate a reasonable satisfaction level. The course had a balanced participation of persons from industry, academia and students, facilitating the exchange of experiences. A truly international participation with many attendees from different countries from America (Brazil, Venezuela, Colombia, USA, Argentina) and Europe (Croatia, Serbia, Poland, France, Italy, The Netherlands, Greece, Germany, UK), and very lively discussions took place on various topics. We were also happy to sponsor the attendance of Delano G. Henry to the course, the winner of this year ICCP Travel Grant.

To finalize, I would like to thank João Graciano Mendonça Filho from the Rio de Janeiro Federal University for his compromise in teaching the Dispersed Organic Matter Courses for the ICCP. We, the trainers, also learned a lot while teaching the course. Thanks to all of you who made it possible.

Angeles G. Borrego

And thank you also to Dr. Angeles G. Borrego, Instituto Nacional del Carbón, CSIC, Oviedo, Spain for her part in the course presentation (Ed.)

The ICCP greatly appreciate the time taken by Angeles and João to prepare and execute the course. The course for 2018 will be proposed during the ICCP Meeting in Bucharest. Please contact Peter Crosdale (peter.crosdale@energyrc.com.au) for course queries.

Answer to Know your coal petrologists (p. 2)



Left: Dr Erich Stach (1896—1987). I am sure all coal petrologists have made extensive use of Stach's Textbook of Coal Petrology (1982)? Stach was awarded the Thiessen Medal in 1964 and has made significant contributions in many fundamental studies of maceral formation and the use of reflected-light techniques.



Right: Prof Colin Ward, Australia. Colin has published many papers on minerals in coal, and, whilst retired, is still very active in research.



(Photographs courtesy of Jim Hower)



69th Annual Meeting of the International Committee for Coal and Organic Petrology (ICCP)

September 3 - 9, 2017 | Romanian Academy Library | Bucharest, Romania



PROPOSED PROGRAM: MEETING & SYMPOSIUM

Under the Auspices of



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ALTELE



PROPOSED AGENDA

69th ICCP Meeting

Bucharest, Romania, 2017

Sunday 3rd - Saturday 9th September

Sunday 03/09/	Venue: Romanian Academy Library, Building B
13:30 - 18:00	Council Meeting Romanian Academy Library, Building B, 2 st Floor, Room 128
18:00 - 21:00	ICCP Icebreaker & Registration Romanian Academy Library, Foyer of the Exhibition Hall
Monday 04/09/	Venue: Romanian Academy Library, Building B
8:00 – 9:30	Registration: Romanian Academy Library, Building B
9:30 – 11:00	Welcome and Opening of the 69th ICCP Meeting Romanian Academy, Aula Invited Speakers: <i>Acad. Bogdan C. Simionescu, Prof. Mihai E. Popa, Dr. Vasile D. Şindilar, Dr. Iulian Iancu</i> Strengths and opportunities of Romania’s natural patrimony <i>B.C. Simionescu, R.D. Rusu, M. Mihai</i> Coals of Romania – occurrence and use <i>M.E. Popa, G. Predeanu</i> 160 years of petroleum industry in Romania <i>M.D. Ghiran, V.D. Şindilar, Ş. Gheorghe</i> Romanian energy sector - contribution to national energy security and efficiency <i>I. Iancu</i>
11:00 – 11:30	Coffee Break, Romanian Academy Library, Building B
11:30 – 12:00	Group Photo
12:00 - 13:30	Opening Plenary Session of the General Assembly Venue: Romanian Academy Library, 1 st Floor, Amphitheater “I.H. Rădulescu” Dr. Ángeles G. Borrego, ICCP President Dr. Walter Pickel, ICCP General Secretary 1. Apologies for Non-attendance 2. Minutes of Huston Meeting 3. Arrangements for Brisbane Meeting 4. Future Meetings (short status) 5. Membership 6. Elections (short status) 7. Editor’s Report 8. Financial matters 9. Training Activities 10. Accreditation Programs
13:30 - 14:30	Lunch in the Foyer of Romanian Academy Library
14:30 – 16:00	Meeting of Commission III Chair: Dr. Magdalena Misz-Kennan, Secretary: Dr. Sandra Rodrigues Opening remarks and schedule of the Commission III Coal Blend Accreditation Program: Dr. Isabel Suárez-Ruiz
16:00 - 16:30	Coffee Break
16:30 – 18:00	Meeting of Commission III Self-Heating WG: Dr. Magdalena Misz-Kennan, Jolanta Kus MSc. DIC., Dr. Deolinda Flores Carbon Materials WG: Dr. Georgeta Predeanu, Prof. Cornelia Panaitescu, Dr. Isabel Suárez-Ruiz

Tuesday 05/09/	Venue: Romanian Academy Library, 1 st Floor, Amphitheatre “I.H. Rădulescu”
9:00 – 11:00	Meeting of Commission III (cont.) Fly Ash WG: Dr. Isabel Suárez-Ruiz, Dr. Bruno Valentim Coal Oxidation WG: Dr. Magdalena Misz-Kennan, Dr. Isabel Suárez-Ruiz
11:00 – 11:30	Coffee Break
11:30 – 12:30	Meeting of Commission III Environmental Application of Organic Petrology WG: Dr. Stavros Kalaitzidis, Dr. George Siavalas Closing remarks of Commission III
12:30 – 13:30	Meeting of Commission I Chair: Dr. Stavros Kalaitzidis, Secretary: Dr. Dragana Životić Opening remarks and schedule of the Commission III SCAP - Single Coal Accreditation Program: Dr. Kimon
13:30 – 14:30	Lunch in the Foyer of Romanian Academy Library
14:30 – 16:00	Meeting of Commission I Distinguishing Features of Macerals WG: Dr. Walter Pickel Reflectance & Terminology of Zooclasts in old sediments
16:00 - 16:30	Coffee Break
16:30 – 17:30	Meeting of Commission I Standardization WG: Dr. Walter Pickel New Methodologies and Techniques in Organic Petrology WG: Dr. Lila Gurba
17:30 – 18:00	Commercial presentation Zeiss GmbH
Wed 06/09/	Venue: Romanian Academy Library, 1 st Floor, Amphitheatre “I.H. Rădulescu”
9:00 – 11:00	Meeting of Commission I (cont.) Xylite-rich Lithotype Classification WG: Dr. Y. Oikonomopoulos Petrographic Image Database WG: Dr. P. David Suberinite WG: Dr. Peter Crosdale
11:00-11:30	Coffee Break
11:30 – 12:30	Meeting of Commission I New Handbook - Application of TEM and SEM Chapter: Prof. B. Kwiecińska, Dr. S Pusz, B.J.Valentine Closing remarks of Com. III
12:30 – 13:30	Meeting of Commission II Chair: Paul Hackley, MSc., Secretary: Jolanta Kus, MSc., DIC Introduction and preliminary remarks of Commission II DOMVR and Component Identification Results on Microscopy Samples WG: Dr. Ángeles G. Borrego
13:30 - 14:30	Lunch in the Foyer of Romanian Academy Library
14:30 – 15:00	Meeting of Commission II DOMVR Accreditation Program: Dr. Ángeles G. Borrego
15:00 – 16:00	Poster Session—PLEASE SEE PAGE 8-9 FOR LIST OF POSTERS
16:00 - 16:30	Coffee Break
16:30 - 18:00	Microscope Session
18:00 - 20:00	Council Meeting Romanian Academy Library, Building B, 2 st Floor, Room 128

Thursday 07/09/	Venue: Romanian Academy Library, 1 st Floor, Amphitheater "I.H. Rădulescu"	12:10 – 12:30	Artificial maturation of graptolite-rich Upper Ordovician shale from Amadjuak Formation, Baffin Island, Nunavut, Canada: <i>J. Reyes, C. Jiang, D. Lavoie, S. Zhang, M. Milovic, R. Robinson, D. Armstrong</i>
9:00 – 11:00	Meeting of Commission II (cont.) Dispersed Organic Matter in Sedimentary Rocks White Paper: Dr. Maria Hámor-Vidó Spectral Fluorescence Lamp Calibration WG: Dr. Richard Orban, Dr. Ángeles G. Borrego Identification of Dispersed Organic Matter WG: Jolanta Kus, MSc., DIC Classification of Dispersed Organic Matter ICCP-TSOP DOM Atlas: Dr. Lavern Stasiuk, Adrian Hutton	12:30 – 12:50	ECOAL Project: delivering solutions for monitoring coal related fires: <i>J. Ribeiro, D. Viveiros, J. Ferreira, A. Lopez-Gil, A. Dominguez-Lopez, L. Duarte, X. Angulo-Vinuesa, S. Martín-Lopez, M. Gonzalez-Herraez, A.C. Teodoro, J.A. Gonçalves, D. Flores, J.L. Santos, J.M. Baptista</i>
11:00-11:30	Coffee Break	12:50 – 13:10	Petrography of coke from blends of coal and different raw materials: <i>Ł. Smezdowski; M. Piechaczek, R. Bigda, M. Rejdak</i>
11:30 – 13:30	Meeting of Commission II Identification of Primary Vitrinite WG: Paul Hackley MSc Palynofacies WG: Prof. João Graciano Mendonça Filho Shale Gas & CBM/CO ₂ Sequestration WG: Dr. Lila Gurba	13:10 – 13:30	Inorganic geochemistry of the early Miocene low-rank coals in the Most Basin, Czech Republic: <i>D. Vöröš, I. Suárez-Ruiz, M. Díaz-Somoano, E. Geršlová, I. Sýkorová</i>
13:30 – 14:30	Lunch in the Foyer of Romanian Academy Library	13:30 – 14:30	Lunch in the Foyer of Romanian Academy Library
14:30 – 15:15	Meeting of Commission II Confocal Laser Scanning Microscopy of Organic Matter WG: Paul Hackley MSc, Jolanta Kus MSc., DIC Proposals for New WGs and Closing Remarks of Commission II: Paul Hackley MSc, Jolanta Kus MSc., DIC	14:30 – 14:50	Organogeochemical and petrographical investigations for hydrocarbon generation of coal and shale from Makum coal basin, Assam, India: <i>A.K. Varma, S. Biswas, D.J. Patil, D. Mani, S. Ghosh</i>
15:15 – 16:30	Closing Plenary Session of the General Assembly Dr. Ángeles G. Borrego, ICCP President Dr. Walter Pickel, ICCP General Secretary 11. Registration of ICCP 12. Revision of Statutes 13. Membership (cont.) 14. Website 15. Elections (cont.) 16. Short reports from the Commission Meetings 17. Short report from the Council Meeting 18. ICCP Meeting 2018	14:50 – 15:10	Effects of tectonic activities on the organic matter of coal from Sikkim, India: Insights from petrography and geochemical proxies: <i>A.K. Varma, S. Ghosh, D.J. Patil, D. Mani, S. Biswas</i>
19:00 – 24.00	Conference Dinner	15:10 – 16:00	Round table "Coal, Quo Vadis?" Chair: <i>Mihai Emilian Popa</i>
Friday 08/09/	Venue: Romanian Academy Library, 1 st Floor, Amphitheater "I.H. Rădulescu" Symposium: "Advances in Applied Coal and Organic Petrology"	16:00 – 16:30	Coffee break
09:00 – 09:20	Organic facies variability and paleoenvironmental changes across the Early Toarcian of the Pyrenean Basin: <i>C. Fonseca, J.G. Mendonça Filho, C. Lézin, L.V. Duarte, Ph. Fauré</i>	16:30 – 17:30	Round table "Coal, Quo Vadis?" Chair: <i>Mihai Emilian Popa</i>
09:20 – 09:40	Dispersed organic matter and organic geochemistry of Oligocene source rocks from the Getic Depression, Romania: <i>M.D. Ghiran, M.E. Popa, Ș. Gheorghe</i>	Saturday 09/09/ 8:00 – 19:00	Field Trip The field trip includes a visit to the Filipeștii de Pădure Pliocene lignite open cast mine, followed by a stop to the Slănic Prahova Miocene salt mine and by a visit to the Piatra Verde quarry for Miocene volcanic tuffs.
09:40 – 10:00	On the petrographic distinction of oil-prone kerogen from solid bitumen in immature shale and mudrock: <i>P.C. Hackley, B.J. Valentine, J. Hatcherian</i>		
10:00 – 10:20	Overview of the petrographic properties of coal in the Upper Silesian Coal Basin, S Poland: Part 1. Reserves of coking coal: <i>I. Jelonek, M. Kondas, M. Kasprzyk, P. Filipiak, Z. Jelonek</i>		
10:20 – 10:40 10:40 - 11:00	Origin of minerals in high-ash Jurassic coals and coaly shales, Gümüşhane (NE Turkey): <i>A.I. Karayığit, R.G. Oskay</i> Variations in meso- and microporosity of Carboniferous bituminous coal seams, Zonguldak basin, Turkey: <i>A.I. Karayığit, M. Mastalerz</i>		
11:00 – 11:30	Coffee break		
11:30 – 11:50	Petrographic features of hydroid remains in the sedimentary record: <i>J.G. Mendonça Filho, J.O. Mendonça, D. Flores</i>		
11:50 – 12:10	The statistical analysis of digital coke images using the random walking method : <i>M. Piechaczek, T. Blachowicz</i>		



NOTE:

The accepted Symposium Abstracts will be provided within the ICCP Program and Abstract Book. This will be edited by the Schriftenreihe der Deutschen Gesellschaft für Geowissenschaften (SDGG) / Publication Series of the German Society for Geosciences, and printed by The Publishing House of the Romanian Academy (EAR). Selected papers will be submitted as a special volume to the International Journal of Coal Geology.

The deadline date for submission of the full papers is 31 December 2017.

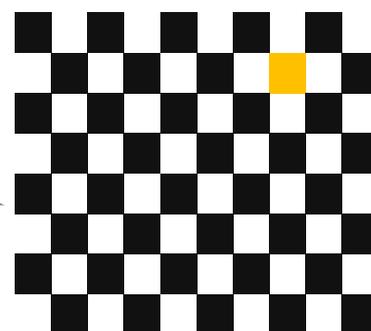
The ICCP Symposium on “Advances in Applied Coal and Organic Petrology”

POSTER Presentations

1. Energy potential assessment of some waste resources in Vâlcea County, Romania. *D. Avram, F. Bucura, A. Zaharioiu, F. Marin, M. Miricioiu, M. Constantinescu*
2. Consideration regarding the impact of climate change policies on changes in solid fuels consumption. *M. Balanescu, M. Sohaciu, C. Drăgan, C. Grădinaru*
3. A microscopy study on the formation of carbon fiber structure. *A. Bara, C. Banciu, V. Marinescu, C. Morari*
4. An optical microscopy study on the development of mesophase after the addition of carbon nanotubes in petroleum pitch. *A. Bara, C. Banciu, D. Pătroi*
5. Thermal history of the Weald Basin, southeast England. *T.S.C.H. Beattie, J.E.A. Marshall, I.C. Harding*
6. The analysis of the variability of the oxide composition of ash from Polish low-rank coals. *B. Bielowicz*
7. CO₂ sorption properties of the selected Polish low-rank coals. *B. Bielowicz, P. Baran*
8. Tissue preservation in bryophytic peats from the North of Spain in relation to palaeohydrological conditions. *A.G. Borrego, J. Urbańczyk, K. Perleros, V. Revithi, J.E. Ortiz, Y. Sánchez-Palencia, J.L.R. Gallego, V. López-Días*
9. New sedimentological and palaeoecological results from the Bozovici Basin, Caraş-Severin County, Romania. *A.G. Călin, I.E. Barbu, I. Mariş, M.E. Popa*
10. Organic petrographic and geochemical appraisal of the Upper Jurassic Naokelekan Formation, KRG, Iraq. *M.E. Damoulianou, K.Y. Kolo, A.G. Borrego, S.P. Kalaitzidis*
11. Application of polar compounds in the reconstruction of secondary migration pathways. *P. David, N. Häuser, T.U. Garlich, K. Øygard, L. Schwark*
12. Petrographical and organic geochemical study of the lignites from the Smederevsko Pomoravlje field (Kostolac Basin, Serbia). *N. Đoković, D. Mitrović, A. Bechtel, V. Matić, L. Despotović, D. Životić*, K. Stojanović*
13. Hydrocarbon generation potential of Pliocene lignite from Filipeştii de Pădure, Romania. *M.D. Ghiran, G. Predeanu, I. Mariş, M.E. Popa, Ş. Gheorghe, C. Ranca*
14. Geochemical and petrological characteristics of Badenian lignite from Lighidia open pit mine, Bozovici, Romania. *M.D. Ghiran, G. Predeanu, M.E. Popa, I. Maris, Ş. Gheorghe, C. Ranca*
15. Solid bitumen petrographic features of Montejunto formation (Lusitanian Basin, Portugal). *P.A. Gonçalves, Z. Vinhas, A. Chefe, J.G. Mendonça Filho, D. Flores*
16. Sequence stratigraphy of coal-forming depositional systems interpreted on basis of well log correlation, organic petrology and sulphur composition of Miocene lignites, N-Hungary. *M. Hámor-Vidó, Z. Püspöki, L. Pápay, R. Horváth*
17. Organic petrology and palynology of Lower Black Shales of Peak 9559 section, Montana, USA. *I. Jelonek, M. Kondas, M. Kasprzyk, P. Filipiak, Z. Jelonek*
18. Co-pyrolysis of lignite and high density polyethylene – characterisation of solid and liquid products. *I. Kojić, A. Bechtel, D. Životić, K. Stojanović*
19. The artificial maturation of marine organic matter - Insights from hydrous-system pyrolysis experiments. *J. Kus, C. Ostertag-Henning, M. Blumenberg*
20. Coal and renewable energy sources influence on Romanian market operation and greenhouse emissions level. *G.C. Lazaroiu, N. Golovanov, F. Cârlea*
21. Residual hydrocarbons of coal and evaluation of their role in the development of fire-blast emergencies in coal underground mines. *V.S. Lebedev, I.E. Stukalova, O.V. Scopinseva*
22. Combining laser reflectance and Raman spectroscopy – Preliminary results. *N.K. Lünsdorf*
23. Characterization of dispersed organic matter of the Candeeiros Formation (Lusitanian Basin, Portugal): the case of Gaiteiros-1 borehole. *J. Martins, P.A. Gonçalves, A. Morgado, J.G. Mendonça Filho, D. Flores*
24. Petrographic and geochemical composition of coals and products of coal combustion from selected combined heat and power plants (CHP) and heat plants in Poland. *Z. Mirkowski, I. Jelonek*
25. The influence of coal-seam fire on overlying rocks assessed using petrography and geochemistry – a case study from the Jastrzębie coal mine (USCB, Poland). *M. Misz-Kennan, M.J. Fabiańska, J. Ciesielczuk, D. Jura, A. Matuszewska*
26. Variation in microstructure of graptolite periderm related to the depth of burial. *R. Morga*

27. The chemical composition of graptolite periderm in the gas shales from the Baltic Basin of Poland. *R. Morga, M. Kamińska*
28. New petrographic and geochemical data of anthracites from the W sector of the Peñarroya-Belmez-Espiel Basin, Spain. *H. Moura, M.M. Marques, J. Ribeiro, I. Suárez-Ruiz, D. Flores and P.P. Cunha*
29. Extraction of heavy and rare earth metals from bottom ash: a kinetic study of the acid attack. *C. Onose, M. Mihaly, E.A. Rogozea, G. Predeanu, B. Valentim, A. Guedes, D. Cadar, N.L. Olteanu, A. Meghea*
30. Organic geochemistry of Gondwana coals from the Satpura and Damodar Valley basins in India. *S. Patra, S.S. Dirghangi, S. Dutta*
31. Romania's Unconventional Hydrocarbon Resources. *C. Pene, B. Niculescu, G. Andrei*
32. Morphology of fly ash from co-combustion of waste (alternative fuel) and hard coal in a stoker boiler. *M. Piechaczek, R. Wasielewski*
34. Coal petrography and fossil plants from the Paroşeni Coalfield, Petroşani Basin, Romania. *R. Pirnea, M.D. Ghiran, M.E. Popa*
35. Carbon-iron micro/nanoparticles tailored for arsenic removal. *G. Predeanu, I. Rău, A. Meghea, M. Hriţac, V. Slăvescu, I. Lăcătuşu*
36. Mesophase development in an anthracene oil-based pitch by pyrolysis in a microwave field. *G. Predeanu, S. Axinte, M.F. Drăgoescu, J.J. Fernández, A. Fiti, Z. González, R. Menéndez, V. Slăvescu*
37. Struggles in investigation of organic matter of oil and gas basins. *N. Pronina, M.S. Luzbina*
38. Influence of various plastic wastes additives on structure and properties of coal carbonization products. *S. Pusz, A. Koszorek, U. Szeluga, P.S. Wróbel*
39. Petrographic characterization of organic matter in soils affected by forest fires. *J. Ribeiro, J. Espinha Marques, C. Mansilha, D. Flores*
40. Deformed coal seams associated with igneous intrusions in Moatize, Mozambique. *S. Rodrigues, L. Glasser, V. Ward, H. Peixoto, J. Esterle, S. Macamo, E. Etchart*
41. Geochemical characterization of Oligocene hydrocarbon source rocks from Teleajen Valley, Romania. *C.T. Sava, L.M. Ghenu, L.Ş. Constantin, D.M. Ghiran, I. Mariş*
42. Vitrinite mapping and coking potential of lower seams of Jamadoba, Jharia Basin, India. *R. Singh, M. Sengupta, M. Deb, K. Ramachandran*
43. Paleodepositional conditions and hydrocarbon potential of the Bikaner Lignites, Bikaner-Nagaur Basin, Rajasthan, India. *A.K. Singh, A. Kumar*
44. A comparison of petrographic properties of coals from the eastern part of the Lower Silesian Coal Basin and selected coals from the Upper Silesian Coal Basin in terms of their usefulness for carbonization process. *Ł. Smędowski, M. Uglik*
45. The Oligocene coal flora from Petrila Mine, Petroşani Basin. *I. Stănciulescu, G. Cojocar, R. Pirnea, M.E. Popa*
46. Physico-chemical properties of high reflectance solid bitumen. *I. Suárez-Ruiz; T. Juliao; I. Camean; R. Marquez; M.A. Díez; B. Ruiz*
47. Bitumens – products of a late-stage of self-ignition in the Eliška coal waste heap at Žacléř (Czech Republic). *I. Sýkorová, B. Kříbek, M. Havelcová, V. Machovič, A. Špaldoňová, P. Matysová, L. Lapčák, I. Knésl, F. Laufek, F. Veselovský*
48. Assessment of landfilled Oltenia lignite bottom ash (Romania) as a source of rare earth elements. *B. Valentim, A.T. Abagiu, L. Anghelescu, G. Chirculescu, D. Flores, D. French, P. Gonçalves, A. Guedes, L.G. Popescu, G. Predeanu, J. Ribeiro, V. Slăvescu, C.R. Ward*
49. The complexities of thermal maturity assessments, Karoo Basin shales, South Africa. *N.J. Wagner, V. Chabalala*
50. Origins and depositional environments of organic matter from Outer Carpathian rocks – a petrographic and geochemical approach. *M. Zielińska, M. Misz-Kennan, M.J. Fabiańska, D. Więclaw*

THE POSTER SESSION WILL TAKE PLACE ON WEDNESDAY AT 3 PM



FIELD TRIP

SATURDAY 9 SEPTEMBER 8 AM– 7 PM

Various localities such as those shown in the image will be visited during the day.

All participants are invited to join the field trip. Please indicate your intention to participate when you register or at the Ice Breaker function on Sunday 3rd September. The costs is 60 EU.



Filipeștii de Pădure open cast mine, general view. Lignite seams are visible.



The Salt Mountain in Slănic Prahova, geological Site of Special Scientific Interest (SSSI);



Piatra Verde/Green Stone (outcrop).

As well as the Unirea underground salt mine in Slănic Prahova, with internal folds within the Miocene salt structure (front cover).

ORGANISING COMMITTEE

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For more information about the meeting, please contact us:

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Chair of the Organising Committee

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A proposal for macroscopic classification of Gondwana Coals of India

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Macroscopically, two types of coals are identified- humic coal and sapropelic coal (ICCP, 1963). While the former is banded in nature, the latter remains nonbanded and massive, and has a homogeneous appearance. The banded nature of humic coal is due to heterogeneous mixture of plant debris. ICCP (1963) has described four lithotypes- vitrain, clarain, durain, and fusain which occur as macroscopically recognizable bands in humic coals. The growth of plants and the physico-chemical conditions prevailing in the paleomires have led to the formation of these lithotypes.

The individual lithotype may have a thickness of several millimeters (generally 3-10 mm) and have characteristic physical properties like colour, streak, luster and fracture pattern (ICCP, 1963; Stach et al., 1982; Taylor et al., 1998).

The Gondwana coals of India, which contribute over 99% of the total coal resources of the country, are banded in nature. The dull bands comprise of durain and fusain while the bright bands are formed by vitrain and clarain lithotypes. The dominance of individual bands varies in wide limits in the Gondwana coals occurring in various well defined river valley systems of the country viz. Son-Narmada valley, Damodar-Koel valley, Rajmahal group of coal-fields, Mahanadi valley, and Pranhita-Godavary valley etc. A scheme of classification of various bands of the Gondwana coals of India has been proposed (Table 1).

Table 1. Scheme of classification of various bands of Indian Gondwana coals

Name of Band	Percentage of bright/dull lithotypes (as calculated from its thickness)
Dull Coal	< 15% bright lithotypes
Dull Banded Coal	15-30% bright lithotypes
Banded Dull Coal	30-45% bright lithotypes
Banded Coal	45-55% dull/ bright lithotypes
Banded Bright Coal	30-45% dull lithotypes
Bright Banded Coal	15-30% dull lithotypes
Bright Coal	<15% dull lithotypes

The existing scheme of classification given by Diessel (1965) is still in use but has a wide range of values in the individual bands. This range has been reduced in the proposed scheme to make it more precise and compact in order to increase its practical utility especially for the Indian Gondwana coals.

References

- Diessel, C. F. K. 1965. Correlation of macro- and micro-petrography of some New South Wales coals. C.R. 8th Commonwealth Min. Metall., Congr. 6. Melbourne: Australia and NZ Publ. pp.669–677.
- ICCP (International Committee for Coal and Organic Petrology), International Handbook of Coal Petrography, 2nd Edition, CNRS, Academy of Sciences of the USSR, Paris, Moscow, p 84.
- Stach, E., Mackowsky, M., Teichmüller, M., Taylor, G., Chandra, D., Teichmüller, R., 1982. Stach's Textbook of Coal Petrology. Gebrüder Borntraeger, Berlin. 535 pp.



Inclusions in South African Medium Rank B, vitrinite-rich coal. Devolatilisation is thought to have occurred with the dolerite intrusions at the time of the breakup of Gondwana, followed by subsequent movement of particles into the pores. Image courtesy of N.Wagner (reflected light, x500, oil)

New Applications for Associate Member



Prof. Gregory C. Smith (A1)
Australia

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Currently Greg Smith is Adjunct Professor of Petroleum Geology at Curtin University. This is a research position in which he undertakes studies in petroleum and coal geology, organic petrology, geochemistry and geostatistics. Special interests include low T-P burial/thermal history modelling and organic matter petrology at the nano-scale using the SEM SIMS facilities in the John de Laeter Centre. Greg supervises Honours, Masters and PhD students, with some undergraduate teaching. He has over 40 years of experience in coal and petroleum organic petrology, geochemistry, geology and geophysics involving technical, research and managerial positions at the Herman Research Laboratory, Exxon, ARCO, BHP and Woodside/Shell. Greg was previously an ICCP Member—so welcome back!



Dr. Rashmi Singh (A3)
India

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Dr. Rashmi Singh is working as a Principal Researcher at Research and Development wing of Tata Steel, Jamshedpur (India). She undertakes coal and coke characterization based research projects and contributes to projects on coal geology, coal beneficiation, coal utilization, blending, grinding, binders and coke making. She is Ph.D. in Sedimentology from Indian Institute of Technology, Kharagpur, India. She also has experience in the field of coal exploration (at Geological Survey of India) and petrography (at National Metallurgical Laboratory, India). She has contributions to research themes and projects in various disciplines of geosciences notably in basin analysis, coal exploration, coal and coke petrography, coke making.

WELCOME AND CONGRATULATIONS

Applications for Full ICCP Member

None this time. But please do consider applying for full membership status if you have been an Associate Member for a while and have been active in the ICCP.

Please REMEMBER TO submit any classified advertisements or points of interest for discussion to the Editor

Updated contact details

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Please keep your contact details current, or you may miss important information

The ICCP Newsletter is also a forum for students, young and advanced researchers, petrographers, and any one else, to present results, submit short reviews or articles, post notifications, request for assistance, announce relevant conferences / workshops / courses. Please submit all documents for inclusion into the next ICCP Newsletter to [mailto: nwagner@ui.ac.za](mailto:nwagner@ui.ac.za) as soon as possible. The ICCP Newsletters are freely available on the website.

Members Corner



ICCP Colleagues working on a Hilgers Fossil Zeiss reflected light petrographic system in Maputo, Mozambique. (From left): Lopo Vasconcelos (lopovasconcelos@gmail.com) with his colleague Mussa Achimo and student Artur Chivurre., and Nikki Wagner.

COAL BLEND ACCREDITATION PROGRAM

By now you should have received the results from CBAP.

The list of CBAP accredited petrographers has been uploaded on the ICCP's webpage

(<http://www.iccop.org/accreditation/accredited-petrographers/list-of-accredited-petrographers-in-scip/>).

Please contact Isabel Suarez-Ruiz (isruiz@incar.csic.es) if you have any queries regarding CBAP.

Please check your contact details as soon as possible and inform Stavros (skalait@upatras.gr) of any required changes.

Congratulations on your accreditation

Obituary:

Prof. M. P. Singh, an accomplished Coal Petrologist of international repute, left for heavenly abode on 13th April, 2017 in Varanasi. Prof. Singh was born on 10th September, 1957 and was brought up in the campus of Banaras Hindu University. He was serving as the Head of the Department of Geology, BHU at the time of his sudden demise. He graduated in 1978 and obtained his PhD degree in 1981, both from BHU. Prof Singh had an illustrious career at BHU and led the coal petrology group of an academic department in the country.

He had been working on various aspects of Organic petrology and organic geochemistry making significant contributions in understanding the surface microstructures employing Scanning Electron Microscope, petrographic framework, evolutionary trend, source rock characteristics, organic maturation, hydrocarbon generation, and trace element geochemistry of Permian and Paleogene coals of India. He was instrumental in establishing an Advanced Coal Petrology Lab in the department which is first of its own kind in any Indian University. His current programme included characterization of fire-affected coals (Natural Coke). Prof Singh published over 75 papers in reputed journals. He was a recipient of 'Subrato Ghosh Award' and 'Dr J Coggin Brown Memorial Gold Medal' given by the 'Mining, Geological and Metallurgical Institute of India' for his outstanding contributions in coal petrology. Prof Singh promoted coal science in several professional bodies like International Committee for Coal and Organic Petrology, South Asian Association of Economic Geologists and the Bureau of Indian Standards in its Study Group. His research students have occupied leading positions in various academic and research institutions like CIMFR, ONGC, GSI, Tata Steels Ltd, RGIPT etc.

Prof Singh was a teacher par excellence and earned lot of praise from the students. He trained the generations of students not only at BHU but extended his services to other universities of the country like Indian School of Mines, Mizoram University and Delhi University; and organizations like Neyveli Lignite Corp. Ltd., Coal India Ltd, CIMFR and many others. It was due to his effort that a new postgraduate program in 'Petroleum Geosciences' could be started in this department.

In true sense he was a friend, philosopher and guide having pleasing personality. His patience and encouragement are responsible for shaping my career; and being his research student, it is a personal loss to me. He is survived by his wife Prof Meenakshi Singh, B.H.U., a daughter Divya Gautam, a son Aditya Gautam (Mohit) and a large fraternity of friends and students. He will be deeply missed by his family, friends and all who knew him. We pray that his soul may rest in peace and family members gain strength to bear the irreparable loss.



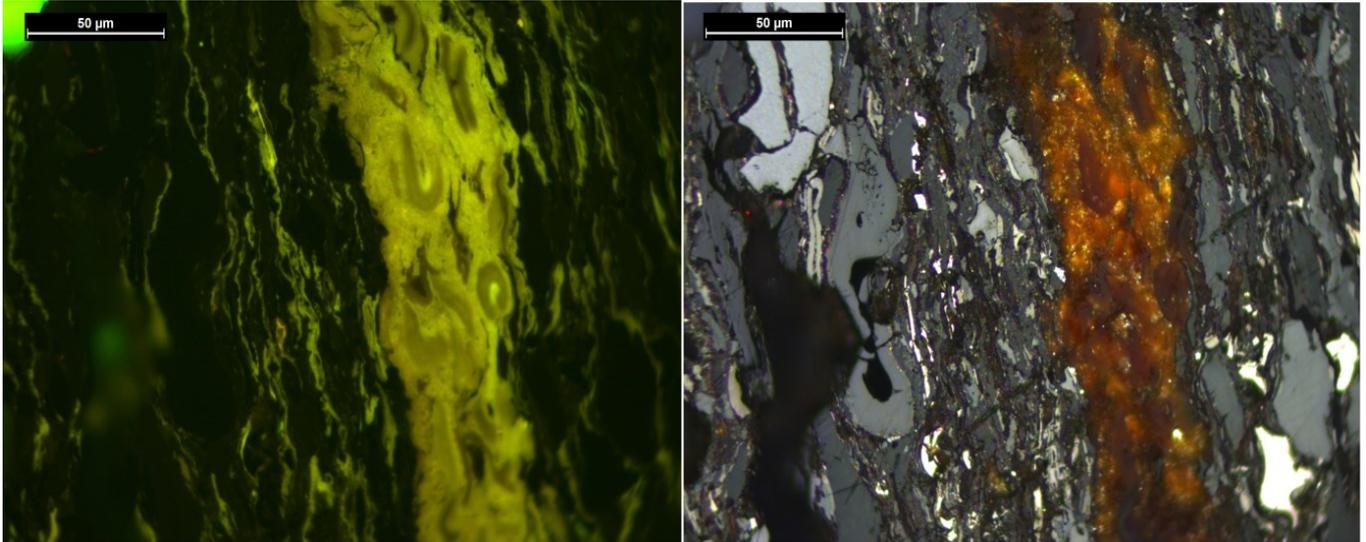
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Prof. M. P. Singh
(10.09.1957 –
13.04.2017)

Amber- a fossilised resin

Contribution from Dr Rashmi, Principal Researcher, R&D and Scientific Services Tata Steel Limited

DR RASHMI <dr.rashmi@tatasteel.com>



Photomicrograph showing 'Amber-a fossilised resin', from low rank (Ro, Mean Random Reflectance: 0.42%) Talcher coalfield, India. (Magnification: 500X , scale bar: 50microns). Petrographer: Rashmi, Research and Development, Tata Steel, India

Amber occurring in coal seams is also called 'resinite'. The formation process of amber begins with transformation of resin to copal. The transformation is triggered by high temperatures and pressure of overlying resinous sediments. The exposure to heat and pressure repels terpenes, which can cause deterioration and decay. Through time and resistance, the resin eventually hardens and becomes fossilized into amber. These apparently occur mainly as hydrogen rich, aliphatic groups of the humic substances. Such components may act as petroleum precursor. To a lesser extent these precursors are present as macerals of Liptinite group mainly alginite resinite, bituminite, cutinite, and liptodetrinite. It is observed that bituminization takes place with rising rank in the brown coal and subbituminous coal range. This is because petroleum hydrocarbons are formed at these stages from components of waxy leaf cuticles, pollens and spore coating by chemical reactions.

Rank wise coal seams of Talcher Coalfield can be categorised under Sub-bituminous C to high volatile bituminous C type. V-step distribution varies from V3 to V7. Talcher coals are rich in 'reactives' with liptinite up to 16% and vitrinite up to 46%. Petrography suggests, Talcher coals fulfil the requirement for potentiality of oil generation as the 'coal quality' required for liquefaction should be of low rank and high hydrogen content. Thus, occurrence of high concentration of liptinite in Talcher coals attracts the investors for coal liquefaction.

ICCP Related publication

We are pleased to announce the multi-author publication on work emanating from an ICCP working group on Fly Ash, convened by Dr Isabel Suárez-Ruiz. The manuscript has been accepted for publication in the International Journal of Coal Geology.

Title: Development of a petrographic classification of fly-ash components from coal combustion and co-combustion. (An ICCP Classification System, Fly-Ash Working Group – Commission III)

Authors: I. Suárez-Ruiz, B. Valentim, A. G. Borrego, A. Bouzinos, D. Flores, S. Kalaitzidis, M. L. Malinconico, M. Marques, M. Misz-Kenan, G. Predeanu, J.R. Montes, S. Rodrigues, G. Siavalas, N. Wagner .

Classifieds

A request from Wayne Knowles:

Please may I reach out to ICCP members to see if anyone is in possession of a **set of reference slides for spore colouration/thermal alteration index** that they could loan me for a few weeks? Obviously, there are various scales in use by the industry (Staplin, Chevron, Robertson SCI etc.) so the more variations I could examine the better.

Background to the request: There are numerous spore colouration scales in existence. Assessment of organic matter colour is subjective for a number of reasons level of illumination, thickness of organic matter, personal eye sensitivity to certain colours etc. Image analysis software is now quite common in organic petrology and I intend to investigate if there is a reliable relationship between colour measurements or ratios of palynomorphs and the VR values (if available) attributed to each slide. If successful, I then aim to construct a set of calibration slides based on various coloured Perspex samples to ensure reproducible lighting conditions. Ultimately the data may be able to produce a unified spore colouration scale.

To avoid re-inventing the wheel I would appreciate if members could point me to any investigations that may have been carried out in the past regarding this subject or that may have been covered by one of the working groups. I remember a presentation on this subject by Thomas Gentzis at last year's ICCP/TSOP conference in Houston but I was not completely convinced by the results and would like to investigate further.

PLEASE CONTACT WAYNE DIRECTLY AS PER DETAILS BELOW IF YOU ARE ABLE TO ASSIST.

Wayne Knowles, Organic Petrologist, Geochemical Services Group

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wayne.knowles@weatherfordlabs.com | www.weatherford.com

Call for papers for Special Issue of International Journal of Coal Geology

"Critical Elements in Coal and Coal Ash and their Recovery"

Elements including rare earth elements (REE) and other critical elements such as Ge, Ga, Nb, V, Mo, U, etc. play an important role in many aspects of 21st-century life. Shortages of these critical elements have elevated interest in rare metals in coal and coal combustion products from being a mere curiosity to investigations of the feasibility of the use of coals and coal products as sources of these metals.

We wish to invite you to contribute a manuscript to a special issue of the *International Journal of Coal Geology* devoted to the geology and chemistry of rare earth elements (including scandium and yttrium) and other critical elements, in coal and coal-bearing rocks; the REE+Y+Sc chemistry of coal combustion and gasification products; and methods and products of the processing and extraction of the latter materials. Guest editors for "Critical Elements in Coal and Coal Ash and their Recovery" will be Athanasios Karamalidis (Department of Civil & Environmental Engineering, Carnegie Mellon University), Allan Kolker (U.S. Geological Survey), and Jim Hower (Center for Applied Energy Research, University of Kentucky).

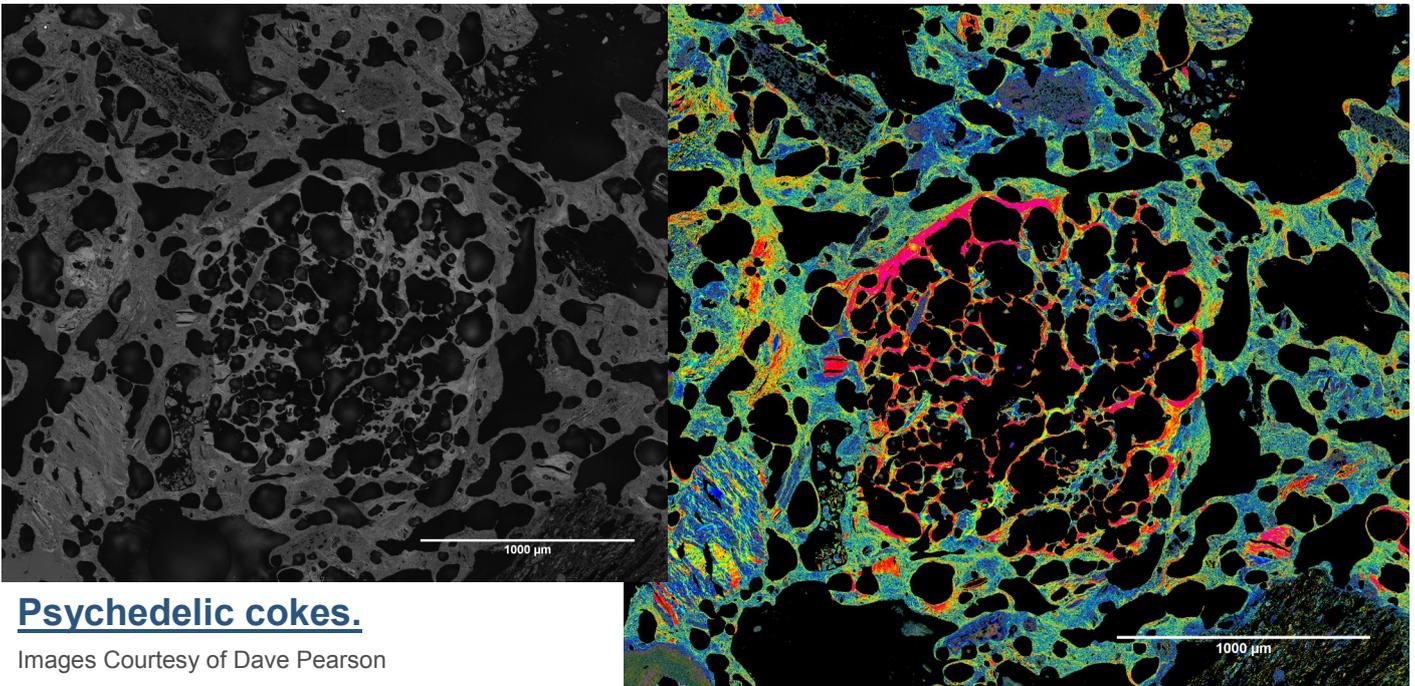
In preparing your manuscript, please follow the [journal guidelines](#). Manuscripts will be published shortly after acceptance and all manuscripts will be linked by Elsevier's [Virtual Special Issue](#) (VSI) function. In this manner, individual papers could be spread across several published issues (rather than waiting for all to be ready and publishing in a single issue), and individual articles for the VSI have an identifier that connects them to the special issue.

Please submit your manuscript by 31 December, 2017 on the journal's EVISE [site](#). In the submission process, you will be prompted to select the special issue.

Thank you in advance for your contribution to "Critical Elements in Coal and Coal Ash and their Recovery",

Athanasios Karamalidis, Allan Kolker, and Jim Hower (Guest Editors)

Shifeng Dai (Editor-in-Chief)



Psychedelic cokes.

Images Courtesy of Dave Pearson

Images of Encapsulites. These are coke textures formed at the plastic layer during carbonization of fluid coal blends by the asynchronous melting and solidification of different rank components. Measured values on pixels are Romax and Romin, from which bireflectance is calculated by difference. On the right is a coloured Anisotropy Quotient (AQ) bireflectance density map ($AQ=(Bireflectance/Romax)*10$); on the left is the same area of interest, with all pixels showing Romax. Both of these images are computer-generated maps, and are significantly different from a microscope view.

The core of the more porous encapsulite is a fused inertinite coloured crimson, and with elevated Romax evident in monochrome. The envelope is a lower rank fused vitrinite, coloured green, with pores that are elongated concentrically around the kernel.

Interpretation: An unfused inertinite grain was engulfed by fluid melted vitrinite (Romax of about 1.15%), which then began to form semicoke. Afterwards, when the inertinite grain began to soften, the envelope was an impermeable and gas-proof, so the high internal gas pressure was contained, and caused textures only seen in the core of the encapsulite – stretched- and snapped-pore walls, isolated pore-wall islands, beak-like remnants, and flattened pores.

2017 International Conference on Coal Science & Technology
and 2017 Australia-China Symposium on Energy

2017 ICCS&T
and 2017 ACSE

Sep.25 – 29, 2017
Beijing International Convention Center, Beijing, China

Call For
Paper

On behalf of the 2017 ICCS&T and 2017 ACSE organizing and advisory committees, we are honored to announce that the International Conference on Coal Science & Technology (ICCS&T) and Australia-China Symposium on Energy (ACSE) will be held in Beijing, China, 25-29 September 2017.



ICCS&T aims to promote international communication and cooperation related to coal science, technology innovation and industrial development, thus advancing the world's coal science and technology. ACSE aims to provide a platform for information exchange and collaboration in the research, development and deployment of low-emission energy technologies in and between Australia and China.

The joint 2017 ICCS&T and 2017 ACSE conference will attract a diverse international audience and focus on most aspects of energy science and engineering, particularly coal science and technology, bioenergy/biofuels, fuel cells, energy storage materials and related areas of interest. Papers in both oral and poster presentation format can be submitted in any of the following topical areas:

- Coal geochemistry and mineralogy, coal structure and ash chemistry
- Coal processing: flotation technology, chemicals, equipment and computer application
- Coal combustion and pollutant removal
- Coal pyrolysis and gasification
- Gaseous and liquid fuels and chemicals from coal
- Low rank coal utilization, spontaneous combustion
- Coke, coal tar and other high value products
- Carbon capture, storage and utilization
- Biofuels and bioenergy, including co-utilization with coal
- Fuel cells, energy materials and energy storage
- Coal and energy related environmental issues
- Other aspects of energy science and engineering



A special issue in **Fuel Processing Technology** will be published from the papers presented at 2017 ICCS&T and 2017 ACSE. Authors will be required to submit full-length papers to the journal after the conference. The papers submitted to the special issue will be subject to the normal peer review procedures for this journal.

Key Dates:
(CCT GMT+08:00)

- Short abstract submission (250 words)
- 15 December 2016, opens
- 31 March 2017, closes
- 30 April 2017, short abstract technical review completed and notification of acceptance sent to authors
- 30 June 2017, extended abstract deadline (2-4 A4 pages) for inclusion in the conference proceedings
- 15 August 2017, presenters notified of session allocation
- 25 – 29 September 2017, ICCS&T/ACSE conference takes place

Contact Number:
+86-10-62339810
General Inquiry E-mail:
iccst2017@cumtb.edu.cn

For all conference information and to submit your abstract visit:
<http://iccstacse.cumtb.edu.cn/>

Conference Hosts:



IN 2020 SOUTH AFRICA WILL HOST THE IMPC 2020 (International Mineral Processing Congress).
IMPC 2018 will take place in Moscow in 2018.

ICCP Publications & Training Material

ICCP Publications are available for download or purchase to all members and non-members.

DO NOT SEND PAYMENT WHEN ORDERING, AN INVOICE SHALL BE ISSUED AFTER ORDERING

Orders to: Dr Peter Crosdale mailto:peter.crosdale@energyrc.com.au
P.O.Box 54, Coorparoo, Qld 415, Australia.

All ICCP HANDBOOKS -(1963, 1985, 1986, 1993) can be downloaded from the website:
<http://www.iccop.org/publications/iccp-handbook/>

Atlas on Fly Ash, as prepared by Commission III, is available for free download on the ICCP website.

Atlas of Anthropogenic Particles

A digital atlas of anthropogenic particles largely derived from fossil fuel sources. The atlas contains 543 images grouped by source and site of occurrence. ICCP News 39 Nov 2006 pp 55-56.
Cost: 16€ including postage.

ICCP Training Material on Vitrinite Reflectance Measurements on Dispersed Organic Matter

CD & set of 4 polished grain mounts; CD's can be purchased separately ICCP News 39 Nov 2006 pp 53-54.
Cost: CD+polished blocks set 40€ incl. postage (ICCP/TSOP members); 120€ (non members).
CD alone: 16€ .

ICCP Training kit for spectral fluorescence measurements in Dispersed Organic Matter.

Two polished blocks Posidonia & Irati shales & Excel sheet of results from round robin exercises.
Cost: samples & excel sheet 30€ incl. postage (ICCP/TSOP members); 90€ (non members).

ICCP Services

Accreditation Programs

Maceral Group Analyses of Coals (SCAP)

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Vitrinite Reflectance of Coals (SCAP)

Convenor: Dr Kimon Christanis
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Coal Blend Analysis (CBAP)

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ICCP President
Instituto Nacional del Carbon—CSIC
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ICCP Reflectance Standard

If you would like to check the calibration of your reflectance standard against the ICCP standard, please contact the following people for availability and costs:

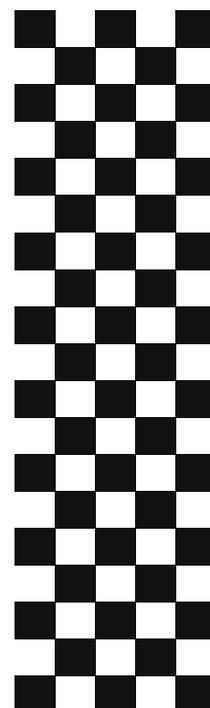
- Dr Walter Pickel, ICCP General Secretary
Director Organic Petrology, Coal and Organic Petrology
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Ph +61-2-9524 0403
mailto: walterpickel@optusnet.com.au

The standard is also available through

- Dr David Pearson
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Victoria, British Columbia, Canada
Ph +1-250 477 2548
mailto: dpearson@coalpetrography.com

And

- Gerd and Gisela Bieg
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UPCOMING EVENTS

13-17 August 2017: 7th International Symposium on Energy, in Manchester, England. Session topics can be found at <http://energy7.nscj.co.uk/Sessions.html> / chair@nscj.co.uk

3-9 Sept 2017: 69th Annual ICCP Meeting, Bucharest, Romania. <http://www.iccop.org/meetings/2017-iccp-meeting-in-bucharest-romania/>. <http://www.iccop.org>.

5-8 Sept 2017: 34th Annual International Pittsburgh Coal Conference, Pittsburgh, USA. Coal - Energy, Environment and Sustainable Development. Abstract deadline 31st July 2017. www.pccpitt.org

21-27 Sept 2017: 34th TSOP Annual Meeting, Calgary, Canada. Organic matter in energy systems, with a focus on conventional and unconventional petroleum systems. Registration and abstract submission now open. <https://tsop2017.wordpress.com/>

25-29 Sept 2017: International Conference on Coal Science and Technology (ICCS&T) AND Australia-China Symposium on Energy (ACSE), Beijing China. www.iccstacse.cumtb.edu.cn, or email: iccst2017@cumtb.edu.cn

27—29 Sept 2017: Coal Association of Canada Conference 2017.

8-14 Oct 2017: Course in Coal Science, China University of Mining and Technology. Xu-zhou & Beijing. One week course for young coal scientists, students, and global coal industry, presented by international leaders, covering many aspects of coal science. For enquiries contact: taylorwz9301@gmail.com, or daishifeng@gmail.com

10-12 Oct 2017: International Meeting of Sedimentology. 33rd IAS & 16th ASF Joint Meeting. Toulouse, France. <https://ims2017.sciencesconf.org/> / ims2017@sciencsconf.org

13-14 December 2017: 3rd Workshop on Advanced Ultrasupercritical Power Plant (AUSC3), Rome, Italy. *Call for abstracts open!*

3-8 June 2018: 9th Freiberg Conference on IGCC & Xtl Technologies—closing the carbon cycle, Berlin, Germany. www.gasification-freiberg.com / gasification@iec.tu-freiberg.de

19-20 April, 2018: VI International Conference on Coal ash—removal, transport, processing, disposal. Moscow, Russia. Paper submission by 22 December, 2017. <http://www.ecopower.ru/index.php?newsid=139>

17—22 August 2018: 35th TSOP Annual Meeting, Beijing, China

24—28 September 2018: 70th Annual ICCP Meeting, Brisbane, Australia

15-21 September 2018: XXIX IMPC 2018—International Mineral Processing Congress. Moscow, Russia. Deadline for abstract submission 1 September 2017. www.impc2018.com

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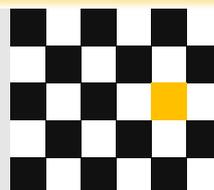
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DEADLINE FOR CONTRIBUTIONS TO THE NEXT ICCP NEWS:
17 Nov 2017