

ICCP NEWS

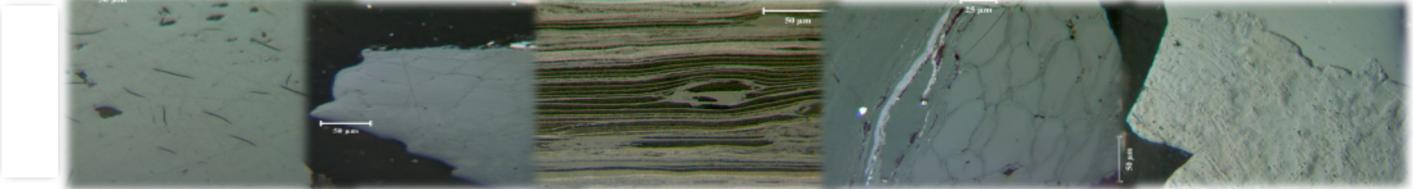


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Various forms of vitrinite



Welcome to the latest ICCP NEWS, the newsletter for the latest society news, Commission activities, articles, meeting minutes, new activities, events, new & old faces...

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Many thanks to Peter (past Editor) and Petra (past President) for their wonderful work and commitment to the ICCP over the many years.



67TH ICCP MEETING

6TH -10TH SEPTEMBER 2015,

HELMHOLTZ CENTRE POTSDAM, GFZ



Council of the International Committee for Coal and Organic Petrology (ICCP)

President

(2015— 2019)
Dr M Ángelez Gómez Borrego
Instituto Nacional del Carbón
(INCAR-CSIC)
Carbón, Energía y Medio Ambiente
Ap 73, 33080 Oviedo, Spain
Telf: +34985119090
mailto: angeles@incar.csic.es



mailto: peter.crosdale@energyrc.com.au



mailto: walter.pickel@organicpetrology.com

Vice-president
(2015-2019)
Dr Peter Crosdale

General secretary
(Acting) (2016—2019)
Dr Walter Pickel



mailto: dflores@fc.up.pt

**Commission I
Chair**
(2008– 2016)
Dr Deolinda Flores



mailto: skalait@upatras.gr

**Commission I
Secretary**
(2008-2016)
(Dr Stavros Kalaitzidis)



mailto: phackley@usgs.gov

**Commission II
Chair**
(2015—2019)
Paul Hackley



mailto: jolanta.kus@bgr.de

**Commission II
Secretary**
(2011—2020)
Dr Jolanta Kus



mailto: magdalena.misz@us.edu.pl

**Commission III
Chair**
(2015—2019)
Dr Magdalena Miszkennan



mailto: s.rodrigues@uq.edu.au

**Commission III
Secretary**
(Acting) (2016-2020)
Dr Sandra Rodrigues



mailto: jen@coalpetrography.com

Treasurer
(2007—2017)
Ms Jennifer Pear-



mailto: nwagner@uj.ac.za

Editor
(2015—2019)
Dr Nikki Wagner

Immediate past president: Dr Petra David mailto: petra.david@wintershall.com
Returning Officer: Dr Rudi Schwab mailto: schwab@btinternet.com
Reinhardt Thiessen Award Committee: Contact the General Secretary, mailto: walter.pickel@organicpetrology.com
Organic Petrology Award Committee: Contact the General Secretary, mailto: walter.pickel@organicpetrology.com

Webmaster (<http://www.iccop.org>):Contact Dr Stavros Kalaitzidis, mailto: skalait@upatras.gr
Archives: Dr Deolinda Flores, Faculdade de Ciências, Universidade do Porto, mailto: dflores@fc.up.pt

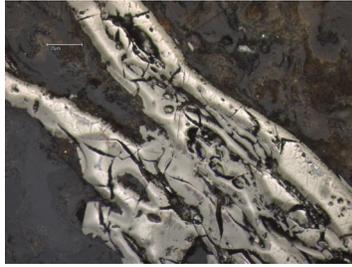
Membership Enquiries:General Secretary Dr Walter Pickel,mailto: walter.pickel@organicpetrology.com;
.....or visit the website <http://www.iccop.org>

ICCP Publications & Training Material:...Dr Peter Crosdalemailto: peter.crosdale@energyrc.com.au

INSTITUTIONAL MEMBERS



Interesting form of oxidized fusinite; Springbok Flats Coalfield, South Africa



*Know your coal petrologist #01.(p41)
Is she really the shy, receding type?*

ICCP WEBSITE

Please send any feedback, comments, and uploads to Stavros Kalaitzidis (<mailto:skalait@upatras.gr>)

<https://www.iccop.org>

Become an ACCREDITED petrographer.

The ICCP provides accreditation in 3 areas: single coal accreditation, coal blend accreditation, and dispersed organic matter. Refer to website.



Coal petrographers are never to old to dance the night away: Zuleika and Claus

Presidents Column

Dear Colleagues,
I would like to take this first opportunity after commencing my turn as ICCP President at the end of the meeting in Potsdam, to thank you for your support. I hope to be able to meet your expectations and be sure, I will do my best to keep your confidence. I would like to thank the Past President and the Organizers of the ICCP Course and Meeting in Potsdam for their effort and work to make a very successful and well-attended meeting. I also would like to thank the leaving members of the Council (Petra David and Isabel Suárez-Ruiz) for their untiring dedication to the ICCP in the last eight years. I also would like to welcome the new Editor, whose very nice first production you have in your hands, and to thank the fifteen years of service of Peter Crosdale as Editor of the ICCP. This is a position which involves a lot of work and gives great visibility to the ICCP. Those attending the meeting know that we have a number of challenges for the near future. I would like to stress finalizing the process of formal registration of the ICCP, and finding the best way to publish the handbook information. This requires that we take care of the body of knowledge the ICCP has accumulated over many years of generous work by many members and to ensure a wide dissemination and distribution of the information. Be sure that the ICCP Council is working on that. After a number of years without granting the Reinhardt Thiessen Award, I would like to especially congratulate our Thiessen Medal Awardees, Zuleika Carretta Correa da Silva and Walter Pickel. Both were present at the meeting, and both left very nice images for our memories. I also would like to congratulate Małgorzata Uglik, the student enjoying the travel grant, for attending the 2015 ICCP course, she has been the first one of what we expect to be a long list.
Ángelez Gómez Borrego

EDITORS COLUMN

Firstly, thank you for the vote of confidence in my election into the position as Editor of the much appreciated ICCP News. Peter, who held the position for 15 years, set a high bar in terms of compiling the Newsletter, making it relevant, vibrant, and of great benefit to the Society.

The ICCP News is a forum in which documents important to the functioning of the Committee are published (meeting minutes, meeting arrangements, awards, membership details, new working groups, treasurers report, and so on), as well as short articles (a great forum for students to present their research concepts), conference information, and general activities of the ICCP. The Newsletter is distributed 3 times a year in an easily digestible document for the ICCP community, and all members are asked to contribute (see back page for more details on how to submit contributions). The ICCP News (printed in hard copy for about 10% of its members, but otherwise available electronically at a reduced cost) complements

the vibrant ICCP webpage (<https://www.iccop.org>); members are requested to pay frequent visits to the webpage to keep abreast of ICCP related activities and to contribute to the goings on of the Society; a society is only as good as its members, and without active, involved, and ongoing interaction, a society can easily become useless. I believe the ICCP News will be available to all who access the webpage without needing a password going forward; the intention is to promote the science of organic petrology and educate all who happen to search the field and arrive at our website. The website is now being overseen by Stavros Kalaitzidis, and implemented by SilkTech S.A. You may note several changes, and more frequent updates will occur. Please do send any feedback, comments, and uploads for the website to Stavros (<mailto:skalait@upatras.gr>).

During the meeting in Potsdam, I became very aware of the fact that organic petrology is still diversifying; the scope of the presentations and posters as part of the Symposium was very wide, with many new ideas being introduced to the ICCP. Diversification of organic

and increasing environmental pressure enable a changing and challenging environment. In my opinion, organic petrology has a very important role going forward, and readers are requested to note the outputs from the various working groups (included in the Commission Minutes), as well as the call for participants in new working groups. Developments globally in shale gas exploration and exploitation, the enhanced use of activated carbons for water treatment and sorption, alternative uses of coal and coal ash, carbon dioxide capture and storage, waste coal utilization, and so on were some of the topics included in the Symposium. I am sure the combined TSOP-AASP-ICCP meeting scheduled for next September in Houston will bring with it even further developments in organic petrology. Readers may be interested in the summary of the 2015 TSOP meeting held in Indonesia included in this Newsletter.

As alluded to by Walter Pickel in his response to the Reinhardt Thiessen Award, the ICCP is more than a society, it is a family (of like-minded individuals – Ed's inclusion). Looking forward into 2016, there are many opportunities for members to get together. Apart from the combined TSOP-AASP-ICCP meeting, the Pittsburgh Coal Conference will take place in Cape Town early August, followed later in August by the much anticipated Geological Congress (IGC) – please see the last page for further information. If you can, consider spending the month of August in beautiful, vibrant, South Africa! **ENJOY THE NEWSLETTER**

Do you know the advantages of being an ICCP member? Find out more online at <https://www.iccop.org>.

Do you know the advantage of being an ACTIVE ICCP member? See the benefits of participating in the working group activities by viewing the minutes.

petrology is so important in this day and age, and petrologists need to embrace changes in order to attract young, aspiring petrographers. Changing dynamics of the mining and energy industries globally due to economic downturn

Eight years as President – a short resume

Having handed over the responsibility of ICCP Presidency to Ángeles G. Borrego, it seems the right moment to reflect on some activities of the past eight years.

When looking back to my election statement, many things that I considered as important at that time have progressed.

The ICCP Training Program has become a firm constituent of ICCP activities, with training courses already scheduled for 2016 and 2017. ICCP was very lucky to receive a great deal of support from various people, when it was decided to organise the first training course in 2009 in Potsdam. The logistic and technical support from Andreas Küppers and Antje Treutler from GFZ and Carl Hilgers formed the base. At that time it was still unclear who would be willing to teach the course. Lopo Vasconcelos, as Vice President, contacted all Honorary Members and as you know, Claus Diessel and Alan Cook agreed to make the start. In the meantime ICCP has organised several training courses in Germany, Portugal, Australia and South Africa. The number of trainers has increased and besides General Organic Petrology training, ICCP can



also provide courses in Dispersed Organic Matter and Industrial Application of Organic Petrology.

The dissemination of ICCP standards and knowledge was another focus. In this context, it is important to note, that the website has undergone a number of changes in layout and facilities during the last years. It requires a lot of effort and time to keep the website in an actual state.



Sponsors & supporters of the 67th ICCP Meeting, Potsdam, 2016



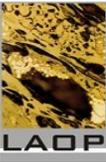




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Council has done a great job in providing working group material to ICCP members and non-members via the ICCP website. There is of course still room for improvements, one of which is a digital image database that is now under development.

It is very important that ICCP classifications and results of the working groups are made available to a broader audience. During the last years a number of articles presenting the results of different working groups were published. ICCP and joint ICCP and TSOP symposia resulted in Special Publications in the International Journal of Coal Geology. In this context it is important, that ICCP can hold the copyright on their classification. Negotiations with publishers are ongoing. During the years, we have lost many long standing, very active ICCP members. This is very sad and will have some influence on ICCP since with these members also a lot of knowledge and experience has disappeared. On the other side, we can notice a slight increase in membership compared to the previous years and many of the new members actively participate in ICCP activities.

For already some time, also due to the positive development of the Accreditation program, ICCP finances are in a very healthy state.

The decision on the ICCP status, i.e. whether or not ICCP will become a registered organisation and if yes, under which legislation was put to a vote in 2011. The majority of members decided in favour of registration, with the legislation being Canada. Due to circumstances we were not able

to formalise this vote, but it seems that the process is accelerating now.

Our record shows that we can achieve great things, especially when we try! (Alan Cook)

The life as President is not always easy, especially when decisions have to be taken, which are not really popular. ICCP council also had some rough times, but in the end always managed to focus on the most relevant thing, which is the health and wealth of ICCP as an organisation. A President of ICCP is very dependent upon the General Secretary and I was very fortunate to have Angeles G. Borrego at my side. I have very much enjoyed the challenge of being president and the co-operation and discussion with council colleagues.

Through the years I have learned that sometimes things do not move as fast as we would like. But then, all our activities in ICCP are on a voluntary base and decisions are made by all members. This requires time. We have to realise that it is a fortune that so many ICCP members put their time and energy in the further development of ICCP activities so that we can make progress. Thank you all! As Alan Cook said: 'Our record shows that we can achieve great things, especially when we try!'

By Petra David

ICCP Symposium Scientific Committee, Potsdam 11 Sept 2015

- Jolanta Kus (Chair, Federal Institute for Geosciences and Natural Resources, Hannover, Germany)
- Rafael Ferreiro Mählmann (Technical University Darmstadt, Germany)
- Bertrand Ligous (Eberhard Karls University Tübingen und LAOP, Laut, Germany)
- Polla Khanaqa (Kurdistan Institution for Strategic Studies and Scientific Research, Sulaymaniyah, Kurdistan)
- Hans Martin Schulz (GeoForschungsZentrum, Potsdam, Germany)
- Ralf Litke (RWTH Aachen, Germany)
- Gerd Bieg (Haltern, Germany)
- Reinhard Sachsenhofer (Montanuniversität Leoben, Austria)
- Walter Pickel (Coal & Organic Petrology Services Pty Ltd, Australia)
- Stavros Kalaizidis (University of Patras, Greece)

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Thanks to Jolanta for a superb Symposium

Left: Symposium sponsors, with thanks

67th ICCP MEETING POTSDAM, GERMANY



The 67th meeting of the ICCP took place in Potsdam (Germany) from 5th to 11th September 2015. The main venue of the meeting was Building H at Telegraphenberg, part of the Helmholtz Centre in Potsdam belonging to the German GFZ (GeoForschungsZentrum) where the Geoscience campus is located. The ice-breaker took place in the Großer Refraktor Building, and the ICCP Symposium was held in the WIS (Wissenschaftsetage Bildungsforum Potsdam) downtown. The meeting was hosted by GFZ with the support of the German Geological Society (DGG) and the Rolf and Marlies Teichmüller Foundation. The ICCP President Petra David from Wintershall Holding GmbH was the Chair of the Meeting. The organization of the activities was in the hands of Andreas N. Küppers, Antje Treutler and Luisa Schulte from GFZ, with the sup-

port of Brian Horsfield as Director of GFZ. Other well known ICCP members of different institutions in Germany were also part of the Organizing Committee: Gisela and Gerd Bieg from Gisela Bieg Mikroskopische Untersuchungen in Haltern, Angelika Vieth from Geologischer Dienst NRW in Krefeld and Carl Hilgers from Hilgers Technisches Büro in Königswinter; Carl also provided the microscope for the microscopy session. In addition, Daniela Focke, Stefanie Henne and Claudia Niemz from the Laboratories for Applied Organic Petrology (LAOP) in Lauta took care of organizing and leading the excursion. Last, but not least Jolanta Kus from BGR

(Bundesanstalt für Geowissenschaften und Rohstoffe) in Hannover was responsible for the Symposium scientific program and chaired the Scientific Committee. As part of the Scientific Committee for the organization of the ICCP Symposium on “Coal and Organic Petrology – New Perspectives and Applications: a tribute to Marlies Teichmüller (1914-2000)”, the work of Rafael Ferreiro Mählmann, Bertrand Ligous, Polla Khanaqa, Hans-Martin Schulz, Ralf Littke, Gerd Bieg, Reinhard Sachsenhofer, Walter Pickel and Stavros Kalaitzidis is also acknowledged.

We are grateful to all of them for every effort.



Ice-breaker,
Refraktor,
Großer



Meeting overview

An ICCP course on “Organic Petrology for Industrial Applications” taught by Isabel Suárez-Ruiz and Walter Pickel took place prior to the ICCP meeting. The joint course—meeting fieldtrip took place on Saturday 5th September, and therefore the activities of the meeting started with the excursion. The 1st Council Meeting took place on Sunday at 13.30 and was followed by the ice-break party. The session started on Monday morning with an Opening Ceremony in which welcome words were expressed by Brian Horsfield as director of the hosting institution (Helmholtz-Zentrum Potsdam, Deutsches GeoForschungsZentrum GFZ), Andreas N. Küppers on behalf of the German Geological Society and Petra David, President of the ICCP. There followed two plenary presentations covering the resources and research in Germany: Dieter Kaufmann, Chief Geologist at Wintershall Holding GmbH; and Barnstorf presented a “New approach to mature oil fields & re-development of abandoned oil fields”. Sandro Schmidt from Federal Institute for Geosciences and Natural Resources, Hannover, gave an overview on the Coal mining in Germany - and a brief global coal sector outlook .

A series of short presentations on the [Organic Petrology Research in South Eastern Europe and Russia](#) followed the

plenary talks. The topics covered are listed below:

- Organic Petrology in service of Archaeology: a study on chars from Çukuriçi Höyük, Western Turkey. *K. Christanis, G. Siavalas, R.G. Oskay, D. Wolf, B. Horjes*
- Coal petrography of Carboniferous coal seams from the Kozlu K20G well, Zonguldak Basin, Turkey. *A.I. Karayigit, M. Mastalerz*
- Peat-forming process in Keri Mire, Zakynthos Island, Southern Greece: a modern analogue of paralic coal-forming palaeoenvironments. *S. Kalaitzidis*
- Mineralogy, geochemistry, and Hg content characterization of fly ashes from “Maritza 3” and “Varna” thermoelectric power plants, Bulgaria. *I. Kostova, C. Vassileva, S. Dai, J. Hower*
- A proposal for a new classification system for xylite-rich low rank coals: an example from a Neogene Greek lignite deposit. *I.K. Oikonomopoulos, G. Kaouras, N. Tougiannidis, M. Perraki, P. Antoniadis, W. Ricken*
- Application of organic petrology to characterization of blast furnace dusts. *G. Predeanu, D.C. Mihăiescu, C. Panaitescu*
- Evaluation of coal mechanical and thermal processing by means of organic petrology methods. *G. Predeanu, C. Panaitescu*
- Petrographic composition and degree of coal metamorphism in deep-seated successions of Donbass. *I.E. Stukalova, A.V. Ivanova*

The General Assembly opening session started on Monday at 12.30 with the schedule:

1. Apologies for Non-attendance
2. Minutes of Previous Meeting
3. Arrangements for Potsdam Meeting
4. Future Meetings
5. Membership
6. Elections
7. Editor’s Report
8. Financial matters
9. ICCP Training Subcommittee
10. ICCP Accreditation Programs
11. Registration and Revision of Statutes
12. Website
13. Short reports from the Commission Meetings
14. Short report from the Council Meeting
15. Arrangements for 2016 Meeting
16. ICCP Awards
17. Others

Topics 1 to 10 were covered in the Opening Plenary session and some of them (topics 4, 5 and 6) were discussed again in the Closing Plenary session. Topics 11 to 18 were covered in the Closing Plenary session.

1. APOLOGIES AND OTHER ATTENDANCE MATTERS

Members of ICCP unable to attend the annual meeting:

Alan Davis (USA), John Crelling (US), Maria Mastalerz (US), Harold Smith (UK), Rosa Menéndez (ES), Diego Álvarez (ES), Javier G. Prado (ES), Olga Patricia Gómez López (CO), Cristina Rodrigues (PT), Elena Karmazina (AU), Matt Todd (AU), Vivien du Cann (SA),

Kuili Jin (CH), Carla Araujo (BR), Manuela Marques (PT), Georges Siavalas (NL), Aivars Depers (AU), Harold Read (AU), Elisabeth Gawronski (AU), Ashok K. Singh (IN), Barbara Kwiecinska (PO), Antonis Bouzinos (AU), Cornelia Panaitescu (RO)..

2. MINUTES OF THE KOLKATA MEETING

The President asked the Plenary Session for confirmation of the minutes of the 66th ICCP Meeting held in Kolkata, India, as published in the ICCP News #61, which was approved as an accurate record of the meeting.

3. ARRANGEMENTS FOR POTSDAM MEETING

Dr. Petra David provided information regarding the organisation of the meeting and logistics.

4. FUTURE MEETINGS

68th ICCP Meeting in 2016 in Houston, USA in connection with TSOP and AASP

The Meeting will be held in connection with the 33rd Meeting of The Society for Organic Petrology (TSOP) and the 48th Meeting of the American Association of Stratigraphic Palynologists (AASP). The schedule comprises parallel sessions AASP-ICCP and TSOP-ICCP and some joint sessions with both organizations to strengthen cooperation. Pre- and post-conference trips are also planned. The meeting will take place in Houston from 18th to 23rd September 2016.

69th ICCP Meeting in 2017 in Bucharest, Romania

The 69th ICCP Meeting will take place in the Faculty of Geology & Geophysics of the University of Bucharest, Romania. It is initially scheduled for the first week of September. Georgeta Predeanu as chair of the Organizing Committee made a presentation at the Closing Plenary Session of the General Assembly informing about the location, facilities & inviting the membership to attend the meeting.

70th ICCP Meeting in 2018 in Brisbane, Australia

The invitation received from Peter Crosdale to hold the 70th ICCP Meeting in Australia was accepted by the General Assembly. Peter Crosdale presented the attractions of the town & some options for field trips. It is still too early for establishing a date.

71th ICCP Meeting in 2019 in Sulaymaniye, KRG-Iraq

The initial plan to hold the 2017 meeting in Sulaymaniye is no longer possible with the present war situation in the Middle East. The invitation to hold the meeting in Sulaymaniye was re-scheduled for 2019, pending a significant improvement of the situation.

5. MEMBERSHIP MATTERS

An application of the Colombian Geological Survey (SGC) has been received during the year for Institutional Membership. For advancement to Full Membership one application was received before the meeting and two more during the meeting. For Associate Membership, eight applications were received during the year and six additional ones during the meeting. All applications were recommended for acceptance and have been approved by the General Assembly. Five resignations were received.

5.1 Associate membership

The following colleagues were elected to Associate Membership of the ICCP:

A short introduction of the new associate members based on their applications & CV's was given. Seven of the new members have already been introduced to the membership in previous ICCP Newsletters, as indicated. A summary of the remaining profiles is given in this newsletter.

Mrs. Telma Ataide Giudice (A1, 3) Brazil. Introduced in ICCP News #62

Mr Attila Király (A1, 2, 3) Hungary. Introduced in ICCP News #62

Prof. Prakash Kumar Singh (A1, 3) India. Introduced in ICCP News #62

Dr Björn Holstein (A1, 2), Germany. Introduced in ICCP News #62

Ms Munira Raji (A1, 2, 3), United Kingdom. Introduced in ICCP News #62

Dr Mihai Emilian Popa (A1), Romania. Introduced in ICCP News #62

Ms Bree Morgan Wrolson (A1, 2, 3), Canada. Introduced in ICCP News #62

Dr. Łukasz Smęadowski (A 3) Poland, To be introduced

Ms Henny Gerschel (A1,2,3) Germany. To be introduced

Dr. Doris Gross (A1,2) Austria. To be introduced

Ms Stefanie Henne (A1,2,3) Germany. To be introduced

Mr. Richard Orban (A1,2) Hungary. To be introduced

Mr. Rich Pearson (A3) Canada. To be introduced

5.2 Full membership

Three active Associate Members of the ICCP applied prior to or during the meeting to promotion to Full Member; all were accepted:

Mr. Vongani Prince Chabalala, South Africa.

Dr. Dragana Životić, Serbia

Dr. Paula Gonçalves, Portugal

5.3 Expiring Membership

According to the treasurer's report, 3 members of the ICCP lost their membership at the end of 2014 (last year paid was 2012). A last effort will occur to contact the members before the end of the year.

5.4 Resignations

Regrettably the following resignations were received during the year: Barry Clark, Kees Kommeren, Henrique Pinheiro, Regina Schafer, Yoshihiro Ujiie.

6. ELECTIONS

Elections for President and Editor took place during the year. The candidates elected were Ángeles G. Borrego for President and Nikki Wagner for Editor. The results were published in the ICCP Newsletter #62. In addition, Magda Misz-Kennan was automatically elected Chair of Commission III after the resignation of Sławka Pusz as candidate. Five positions required candidates for elections to be filled in 2016. The candidates proposed by Council are listed below:

- General Secretary - Walter Pickel
- Chair of Commission I - Stavros Kalaitzidis
- Secretary Commission I – Dragana Zivotic
- Secretary Commission II – Jolanta Kus

As no further nominations were received from the floor, the candidates were automatically elected. The turns will officially start after the Houston meeting, but General Secretary and Secretary of Commission III will be acting during the year as the holders of the positions have already initiated turns as President and Chair of Commission III.

7. EDITORS' REPORT

The Editor presented the report of the 2014-2015 activities and a brief summary of the evolution during the last 15 years in which he has been holding the position. After the meeting, Nikki Wagner will take over the Newsletter editorial tasks and was welcomed as new Editor. The excellent work of Peter Crosdale after many years on duty was gratefully acknowledged. Members and in particular conveners of the working groups are encouraged to provide progress reports and contribute further to the ICCP News.

8. FINANCIAL MATTERS

The Honorary Treasurer presented the report of the 2014-15 economic affairs (included in the Newsletter). ICCP accounts are in good shape.

9. ACCREDITATION

Deolinda Flores, Chair of the Accreditation Subcommittee, presented an overview of the Accreditation activities in the year 2015. At the time of the meeting the 2014-2015 Accreditation Round was nearly closed, pending from reporting back to participants of the CBAP. Slight delays occurred during the last round as a significant increase in participation was observed, mainly in DOMVR and CBAP. An Excel-based database has been developed for CBAP, which worked very satisfactorily in the evaluation of the round.

10. ICCP TRAINING ACTIVITIES

Peter Crosdale, coordinator of the ICCP training activities, presented the main developments during the year regarding the training activities of the ICCP. A 5 day course, comprising 4 days teaching and one day excursion, on **Organic Petrology for Industrial Applications** was held at the Helmholtz Centre of the German Research Centre for Geosciences GFZ In September. The trainers were Dr's Isabel Suárez-Ruiz and Walter Pickel.

The accepted forthcoming ICCP Training courses will be:

6-10 June 2016 Training Course Organic Petrology: Walter Pickel & Ángeles G. Borrego (5 days)

26-30 June 2017 Training Course Dispersed Organic Matter: João Graciano Mendonca Filho & Ángeles G. Borrego (5 days)

The courses will be announced in the ICCP webpage before the end of the year, and is included on page 35 of the Newsletter.

11. REGISTRATION OF ICCP AND REVISION OF THE STATUTES

No major advances occurred during the year regarding registration of the ICCP as a society in Canada. The main requirements were published in the ICCP News #54-pg. 8. A lawyer has been contacted after the meeting and it is expected to speed up the process as much as possible. The lawyer will advise on appropriate attorney to run the procedure and act as the British Columbia director. The following step will be the registration of name and organization and check that the Statutes fit within Canadian law. Following this, revision of the Statutes and bylaws should start. This is expected to occur before the end of 2015.

A first document for revision of the Statutes has been prepared by Stavros Kalaitzidis considering the comments received for modifications of the actual Statutes (ICCP News #34 from 2005) and meeting the requirements of the Canadian Law. The draft is expected to be discussed during the next meeting (2016).

12. WEBSITE

The server has change during the year and the migration of the webpage has successfully occurred. A contract has been signed with SilkTech S.A. for the maintenance and update of the plugs.

Please visit the webpage at <https://www.iccop.org>

13. REPORT FROM THE COMMISSION MEETINGS

Reports of the meetings of the Commissions were presented during the Closing Plenary Session on Thursday 10th September by Deolinda Flores (Chair of Commission I), Paul Hackley (Chair of Commission II), and Isabel Suárez-Ruiz (Chair of Commission III). The minutes of the Commissions are presented in this newsletter.

The President congratulated Chairs, Secretaries, and Conveners of the 3 Commissions for their continuous work. Again, they performed extremely well and the results achieved during the year were remarkable. The president noted that this is only possible because members actively participate in the round robin exercises and especially encouraged the new members to take part in the different Round Robin exercises.

14. REPORT FROM THE COUNCIL MEETINGS

The minutes of the Council Meetings comprising of the resolutions which were adopted at the Meeting were recorded (and are presented later in the Newsletter). Most of the issues discussed were presented to the General Assembly under their respective topics.

In the various editorial groups of the handbook there are a number of chapters which were approved for publication. The situation is not clear with regards to ICCP copyright holding and Elsevier, although ICCP has signed a shared-copyright agreement for the last publications. Alan Cook established contact with Elsevier to try to maintain the copyrights of the published vitrinite and inertinite sheets in FUEL within the ICCP, and the contacts have been later maintained through the General Secretary (Angeles G. Borrego). Nevertheless, the situation is not clear since the forms change from publication to publication and we are not sure at the moment which sort of information we can disseminate and in which format.

The **Accreditation Sub-committee** met during the meeting after the daily session and was attended by the organizers Kimon Cristanis for SCAP, Angeles G. Borrego for DOMVR and Isabel Suárez-Ruiz for CBAP; the Accreditation Subcommittee: Deolinda Flores-Chair and representative from Commission I; Paul Hackley-representative from Commission II; Magda Misz-Kennan-representative from Commission III; the external expert Paddy Ranasinghe, and the President Petra David.

The discussion focused on the intention to implement a database for SCAP and

DOMVR similar to that developed for the CBAP database, in view of the excellent performance of the CBAP database. A request to obtain a cost estimate for developing similar programs for SCAP and DOMVR was stated, and Deolinda agreed to contact the Interrelate Lda. A new chair of the Accreditation Subcommittee was elected as the present chair will finish the turn on Councillor before the next accreditation round is going to be finished. Magda Misz-Kennan will lead the Subcommittee in the future. João Graciano Mendonça Filho will take over the organization of DOMVR, once the next round has been finalized.

15. ARRANGEMENTS FOR THE 2016 MEETING

Paul Hackley presented, on behalf of the Houston organizing committee, the proposal for the 2016 meeting. The meeting will take place at **Magnolia Hotel** located in central downtown Houston from 18th to 23rd September 2016. Some joint sessions are planned during the week: *Microscope methodologies in recognizing and characterizing organic microporosity* (Joint TSOP/ICCP, Monday pm), *Palynofacies and Kerogen* (Joint TSOP/AASP/ICCP, Tuesday pm), *Multi-modal characterization of source rocks, including source-rock reservoirs* (Joint TSOP/AASP/ICCP, Wednesday). **A short course on Integrated reservoir evaluation of source-rock reservoir resources utilizing organic petrography, geochemistry and mineralogy** is planned on Saturday. A 3 days Pre-Meeting Fieldtrip (Friday to Sunday) to **Eagle Ford Formation of West Texas** will be organized by Core Laboratories (Houston) and Post-Meeting Fieldtrip: **Cretaceous through Eocene strata of East-Central Texas** will take place on Saturday after the meeting organized by J. O'Keefe/Texas A&M University. (Ed: See circular later in Newsletter).

16. ICCP AWARDS

16.1 ICCP Student Grant

The ICCP student grant sub-committee initiated the award during the year. Based on the selection process, the committee proposed the 2015 ICCP Grant to be granted to Ms. Malgorzata Justyna Uglik, from the University of Wrocław, Poland. As the estimated travelling costs for attending the course were relatively low, the second candidate (Munira Raji) was also selected and the grant was split; however, the second candidate could not attend the training course, and the 500€ will be added to the 2016 grant pool. Malgorzata received a diploma during the Closing Plenary Session and the congratulations from the General Assembly.

Ms. Malgorzata Justyna Uglik, receives her award.



2015 ICCP MEETING FIELDTRIP TO AN EAST GERMAN LIGNITE MINE AND SCHWARZE PUMPE

The Fieldtrip was a joint activity of the preceding ICCP Course and the Meeting, and took place on Saturday 5th of September. We travelled to the East German Lignite Mine Welzow-Süd and visited the Power Station 'Schwarze Pumpe'. The mine belongs to the Lusatia Lignite Mining Region which produces annually around 64 million tons of lignite. We had the chance to see in operation one of the largest conveyor bridges in the world. The Lusatia lignites were



formed in the Tertiary, around 17 million years ago, in a flat stretch of land between the Elbe and Neiße rivers dominated by glacial sands. The lignite forming fens were repeatedly flooded by the sea. Swamp cypresses, redwood trees, oaks, sphagnum moss, bog pines, laurels, fan palms and umbrella pines grew in the marshes, raised bogs, peat bogs and upland moors, depending on nutrient supply and local

conditions. The Lusatia deposits feature four sets of seams. They are all differently formed and mining is not economically viable in every case. We had the chance to go close to the seam and see the distinct facies which can be observed as consequence of the fen evolution to raised bog. Facies dominated by Coniferae, Angiospermae, Glumiflorae and Marcoduria (sauerkraut) could be observed showing different gelification degrees. Lusatian lignite is predominantly used for the generation of electricity in power stations, but some of the raw lignite is also refined to make high-quality fuels, such as briquettes, pulverised lignite and fluidised-bed lignite. Coal used for refined products has lower sulphur and higher carbon contents than power plant coal. One special feature of the Lusatian lignite is its relatively high water content.

We visited the shiny power station 'Schwarze Pumpe' which consists of two units and part of the heat produced during power production is extracted from the process and used to supply district heating to the nearby towns of Hoyerswerda and Spremberg. The power plant has a net efficiency of more than 40%. The steam generator is 159 metres high and has an observation deck of 161.5 metres at the top. Moreover, process steam from the power plant is used for briquette and paper production in a neighbouring industrial area. The 'Schwarze Pumpe' has an electric capacity of 1,600 MWe and a heat capacity of 120 MWth. The plant is also pioneering work on Carbon Capture and Storage (CCS) with a 30MW oxy-fuel test facility, which has been running since the middle of 2008.

Thank you Ángeles for this contribution.



16.2. Reinhard Thiessen Medal Award

After some years without awarding the Reinhard Thiessen Medal (RTM), two nominations were received from the RTM Award Committee during the year. Council agreed to award the 2014 Medal to Prof. Dr. Zuleika Carretta Correa da Silva, and the 2015 Medal to Dr. Walter Pickel. Petra David and Ángeles G. Borrego read the Laudations on behalf of the Chair of the RTM Committee. Both awardees were present at the meeting and very emotional moments were lived, especially when Zuleika, absent for some years from the meetings, collected her award.. (See articles on page 34).

17. Others

No other issues were raised for record.



The 2015 ICCP Meeting was very well-attended, enabling interaction with frequent and less frequent attendees.

The organizers and sponsors who made every effort to facilitate the attendance of such a great number of participants are thanked.

2015 MEETING SOCIAL PROGRAMME

The social program was initiated with the ice-breaker on Sunday afternoon in the Potsdam Great Refractor, which is the world’s fourth largest double-refractor telescope. It belonged to the former Astrophysical Observatory, Potsdam and was inaugurated by the Emperor Wilhelm II in 1899. The instrument is an important example of the fine mechanical and optical manufacturing of the early astrophysical research at the beginning of the 20th century. The German association “Förderverein Großer Refraktor Potsdam e.V.”, which renovated extensively the heritage-protected telescope in the previous years, gave a guided tour in the refractor building. After the tour, excellent snacks and drinks were served in the impressive building.

The Conference Dinner took place on Thursday, 10 September 2015. A City Bus Tour took place after the Closing Plenary Session, and included the

chance to observe touristic places in the charming city of Potsdam. The tour ended at the Villa Quandt and we walked to the Pfingstberg to visit the Belvedere. The Belvedere is a palace in the northern part of the New Garden in Potsdam and was commissioned by Friedrich Wilhelm I. The twin-towered building is only one part of an originally more extensive building project modeled on Italian Renaissance style. It was built between 1847 and 1863 with an interruption from 1852 to 1860. The architects Ludwig Persius and Friedrich August Stüler drew up detailed plans from the sketches by the King. The garden architect Peter Joseph Lenn was responsible for the design of the grounds. The building was renovated between 1988 and 2005 and is now open to visitors. A fine drizzle accompanied us during the visit. A delicious dinner was served at Restaurant Kades, followed by dancing to music collated by a Berliner DJ. (Ed: Young and old took to the floor. Some great photographs from the event are included on page 43).

Minutes of the Council Meeting

67th ICCP Meeting in Potsdam, Germany, 5th-11th September 2015

Council Meeting started at 13.30 on 6th September, and resumed at 17.30 h on 8th September. The meetings took place at Telegraphenberg, Building A27, Geolab.

Members of Council present, **Petra David**, President, **Ángeles Gómez Borrego**, General Secretary, **Peter Crosdale** Editor & Vice-President, **Jennifer Pearson**, Treasurer, **Deolinda Flores**, Chair Commission I, **Stavros Kalaitzidis**, Secretary Commission I, **Paul Hackley**, Chair Commission II, **Jolanta Kus**, Secretary of Commission II, **Isabel Suárez Ruiz**, Chair Commission III, **Magdalena Misz-Kennan**, Secretary of Commission III and **Nikki Wagner**, Editor elect.

2. Minutes of Previous Meeting

Minutes of the Council and of the Plenary Sessions of the Kolkata Meeting were approved.

Resolution ICCPC15/2/1. Council approves the Council minutes as circulated.

Resolution ICCPC15/2/2. Council approves the Plenary Session minutes as printed in the ICCP Newsletter.

4. Future meetings

Resolution ICCPC15/4/1 Council thanks Polla for the invitation to hold the meeting in Sulaymaniyah and regrets that the present situation does not allow for scheduling a meeting in KRG-Iraq for the time being. Once the situation improves substantially, council will revisit the invitation provisionally for 2019.

Resolution ICCPC15/4/1. Council thanks the organizers for invitation and forwards to the Plenary Session to approve the organization of the 2017 Meeting in Bucharest, Romania.

Resolution ICCPC15/4/2. Council thanks the organizers for invitation forwards to the Plenary Session to approve the organization of the 2018 Meeting in Brisbane, Australia.

5. Awards

5.1. Thiessen Award

Resolution 15/5/1: Council thanks the RTM Committee for evaluating the documents and providing the laudation.

Resolution ICCP15/5/2. Council approves that the 2014 Reinhardt Thiessen Medal is awarded to Prof. Dr. Zuleika Carretta Correa da Silva

Resolution ICCP15/5/3. Council approves that the 2015 Reinhardt Thiessen Medal is awarded to Dr. Walter Pickel

6. ICCP student Grant

Resolution ICCPC15/6/1. Council congratulates the student grant sub-committee for initiating the activities and supports sub-committee decision.

7. Elections

Resolution ICCPC15/7/1. Council congratulates the Editor and President of ICCP initiating their turn in 2015 and thanks the candidates standing for elections.

9. Treasurer's Report

The Treasurers Report as shown in **Appendix 3** as presented to the Council

Resolution ICCPC15/9/1. Council

- i) receives the report presented by the Honorary Treasurer
- ii) agrees that the report represents a fair statement of the financial affairs of the ICCP and congratulates the Honorary Treasurer on the report.

10. Editor

The Editors Report published in **Appendix 2** was presented to the Council

Resolution ICCPC15/10/1. Council receives the report of the Editor and congratulates him on the presentation of the Newsletter.

Resolution ICCPC15/10/2. Council approves spending by the editor in accordance with the budget estimates given in the Editors Report

11. Accreditation

Resolution ICCPC15/11/1 Council acknowledges the great advance that the excel database represents for the evaluation of CBAP and thanks the Chair of the Accreditation Sub-Committee, the Organizer of the CBAP and Interrelate Lda for the work

Resolution ICCPC15/11/1 Council receives the report of the Chair of the Accreditation Sub-Committee and the Organizer of the DOMVR and congratulates them on the report. Council thanks the Organizers of the three ICCP Accreditation Programs for their tremendous work.

12. ICCP Training Activities

Resolution ICCPC15/12/1. Council notes the large involvement of Andreas Küppers and Anjie Treutler as organizers, Petra David as supporting the organizers and of the ICCP Vice-President as responsible for the training activities in the organization of the training course on Industrial Applications of Organic Petrology and congratulates them for the work. Council notes the enormous amount of work involved in teaching the intensive ICCP course and express that ICCP is deeply in debt with Dr. Isabel Suárez-Ruiz and Dr. Walter Pickel for having accepted this challenge.

13. ICCP Website and image database

Resolution ICCPC15/13/1. Council notes that successful migration has occurred in the server and thanks SilktTech S.A. for the effort in the developments and Stavros Kalaitzidis for the close follow up of the developments.

14. New Handbook

Resolution 15/14/1 Council requests approval from the General Assembly to decide on way to publish ICCP definitions, classifications and results from the working groups that enables ICCP to keep rights on intellectual property.

THANK YOU COMMITTEE MEMBERS

Open top bus tour of Potsdam as part of the conference dinner social program.



The new ICCP President,
Ángeles Gómez Borrego



Give the Editor a beer for goodness sakes!!



Nikki Wagner, Claus & Louise Diessel, and Jen Pearson relax at the hotel bar.

ICCP TREASURER'S REPORT

By Jen Pearson, ICCP Treasurer
August 1, 2014 – July 31, 2015

This year the activity in the ICCP account was lower as there was neither an accreditation round nor a training course planned. The income consisted of membership dues: €2521; sales of publications: €168; a few late payments for the 2014 round of accreditation: €927; interest received in the savings account: €293; and thanks go to Dr. Geoff Taylor once again for donating: €56, the royalties from his book.

In past years a local organizing committee arranged and collected all fees relating to the ICCP meetings. It was decided this year that the ICCP would collect the money covering the registrations for the meeting and the training course at Potsdam. €12,422 has been collected to date in the special account set up in Potsdam, and \$12,585 Canadian has been collected in the ICCP chequing account, The Canadian funds have been transferred to the Potsdam account, and this money will be used to cover the costs of these events.

Expenses include bank and credit card charges: €1465; administration costs consisting of the casting and engraving of two medals: €1278; web page management: €386; miscellaneous costs: €342; accreditation costs: €5460, and transfer to the SCAP convener: €514.

The final balance of €115,883.20 is broken down as shown on the balance sheet, Canadian funds are held in the chequing account, savings account and in petty cash totaling: \$133,539. The Euro funds: €23,073.31, are held in cash, with the SCAP convener and in the German account set up for the Potsdam meeting. Using the exchange rate of July 31st, 2015 (\$1=€0.6950), we have a final combined amount of €115,883. However

€20,455.06 of this is designated for the ICCP meeting, so the amount left in the ICCP is €95,427.94 meaning we have made a slight loss this year (€3,459).

As already mentioned with no accreditation round, income was down, most of ICCP's income is generated by the SCAP program and, on occasion, by the training courses. It is too early to state the outcome of this year's training course, but with less than 10 participants it does not look like a profit will be made. The 2014 accreditation round showed that SCAP is the most profitable exercise. CBAP expenses were high this year due to work done in Oporto on the CBAP excel database.

More income is expected with another round of accreditation in 2016, and I think overall the ICCP has a healthy balance.

THANK YOU JEN



*We know João is always working, always willing to lend a helping hand. But who is he helping here?
Know your petrologist#2 (p. 45)*

ICCP ACCOUNTS AS PRESENTED AND APPROVED AT THE POTSDAM ICCP MEETING

ICCP

Table 2: Balance Sheet

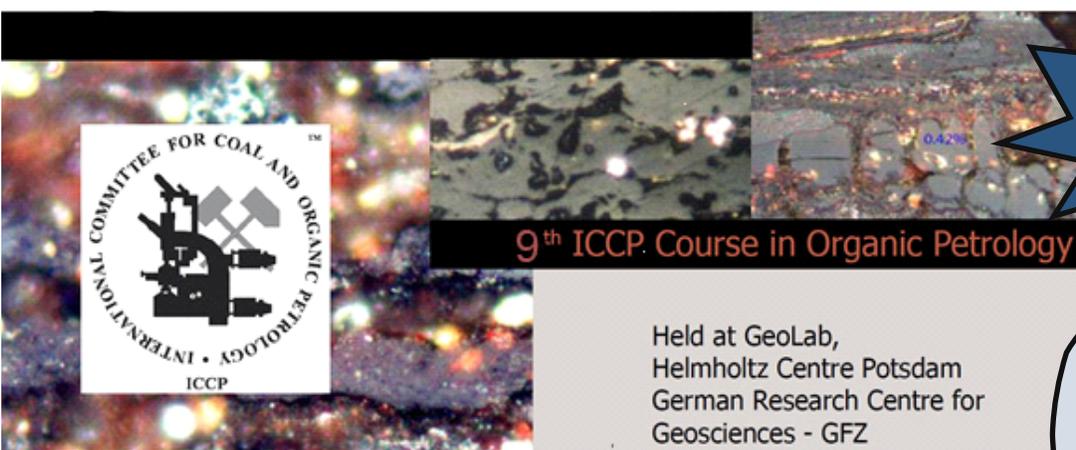
Assets & Liabilities	July 2014	July 2015
<u>Canadian Account</u>		
Chequing Account	\$ 88,800.93	\$80,023.43
Savings Account	52,784.06	53,206.33
Cash	401.35	309.65
Total	\$141,986.34	\$133,539.41
Exchange rate at year end	\$1 = €0.6858	\$1 = €0.6950
	=€97,374.23	=€92,809.89
<u>Euro Account</u>		
Cash	966.00	890.52
SCAP Float	546.53	1727.73
General Secretary	0	0
President – for Potsdam Meeting	0	20,455.06
Total	€1,512.53	€23,073.31
Total Balance in Euros	€98,886.76	€115,883.20
Deduct Meeting Registrations		<u>-€20,455.06</u>
Total		€95,428.14

SCAP is the most profitable of the ICCP activities, attracting both members and non members. 2016 will be an accreditation year, and hence the income generation will be higher.

ICCP

Income Statement as of July 31, 2015 in Euros.

<u>Opening Balance – July 31/2014</u>	€98,680.51
Canadian Accounts	<u>€1,512.53</u>
Euro Accounts	€100,193.04
<u>TOTAL</u>	€978.11
<u>Receipts:</u>	€1,543.05
Membership Dues	€167.72
Prepaid Membership Sales	€596.22
Accreditation - SCAP	€242.99
DOMVR	€88.13
CBAP	€293.48
Bank Interest Received	€56.36
Donation	<u>€21,168.73</u>
ICCP Meeting and Training Course	€25,134.79
<u>TOTAL RECEIPTS</u>	125,327.83
<u>Expenses:</u>	€1,464.68
Credit Card and Bank Charges	€2,005.97
Administration	€872.80
Accreditation: SCAP	€111.88
DOMVR	€4,475.52
CBAP	<u>513.78</u>
Transfer to SCAP	€9,444.63
<u>TOTAL EXPENSES</u>	€115,883.20
<u>FINAL BALANCE</u>	<u>€95,428.14</u>

9th ICCP Course in Organic Petrology

Held at GeoLab,
Helmholtz Centre Potsdam
German Research Centre for
Geosciences - GFZ
Potsdam, Germany

June 6-10, 2016

ANNOUNCEMENT

See page 35
for more
details

In addition to reporting the Annual Meeting matters, the ICCP Newsletter is also a forum for students, young and old 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@uj.ac.za as soon as possible.

DEADLINE FOR CONTRIBUTIONS TO THE NEXT ICCP NEWS: 15 Feb 2016

MINUTES OF COMMISSION I GENERAL COAL AND ORGANIC PETROLOGY

67th ICCP Meeting, Potsdam, Germany, 7th-8th September 2015 attending the Meeting.

Chair: _____ **Deolinda Flores,**
mailto:dflores@fc.up.pt,
Secretary: _____ **Stavros Kalaitzidis,**
mailto:skalait@upatras.gr

Opening remarks

The Commission I meeting was held on the afternoon of Monday the 7th and the morning of Tuesday the 8th of September and was attended by 49 and 53 members, respectively. The Chair outlined the programme for the sessions and presented a short overview of the Commission's activities during the last year. Deolinda informed the attendees that Thomas Gentzis the Convenor of the Reflectance & Terminology of Zooclasts in old sediments WG sends his apologies for not

Temporal Variations in Coal WG – Lopo Vasconcelos

Although this WG is not active any more, Lopo continues to add new data into the database, which now reaches in total 12,743 maceral data entries from 76 countries and territories (22 "Gondwana" and 54 "North Atlantic" countries/territories). ICCP Members are encouraged to use the Database that is loaded on the ICCP webpage (<http://www.iccop.org/workinggroup/temporal-variation-of-coals/>) and/or to add any new data that becomes available by contacting either Lopo or Com I Chair/Secretary.

Minutes continue on page 20—24



Commission's I sessions included a Microscope Session and presentations of the following WG's:

- Suberinite Working Group
- Standardization Working Group
- ISO Standard
- Micro-FTIR Working Group
- Distinguishing Features of Macerals Editorial Group
- New Methodologies and techniques in Organic Petrology Editorial Group
- New Handbook Editorial Group
- TEM, SEM and Pyrolytic Carbon Editorial Group
- QEMSCAN Editorial Group
- Raman Spectroscopy Editorial Group
- Liptinite Editorial Group
- Oxidation Editorial Group
- Petrographic Image Database
- Additionally, although not a WG Carl Hilgers presented the New Enhancements of Fossil Measurement System.

Single Coal Accreditation Program - Kimon Christanis
 Kimon presented the report of the 2014 SCAP round, along with a short review of the SCAP exercises since 2006. The 2014 SCAP exercise was announced in February 2014. Participants electronically registered via ICCP webpage. Dispatch of invoices, samples and instructions commenced April 2014. In the past exercises, beginners received six block samples and continuing participants two bulk coal samples. However, in the 2014 exercise only nine beginners received blocks as (a) most of the blocks were lost in the post; (b) for the first time the SCAP sample bank was able to supply the participants with bulk samples. The participants had to measure the following parameters:

- **Vitrinite random reflectance (VR) according to ISO 7404-5 measured on collotelinite (ICCP, 1998).**
- **Vitrinite content (VC) according to ISO 7404-3.**

The initial deadline to submit the results was end of September 2014. In total 117 analysts were registered from 67 laboratories located in 20 countries. About 112 analysts sent VR and 108 analysts sent VC results. Eighty-six of the 2012 participants continued the exercise in 2014, whereas 26 were new entries, which is very encouraging. **It is interesting to note that 54 participants are members of ICCP, whereas 58 are non-members.** The geographic distribution of the participants was: Oceania 36%, Europe 32%, America 18%, Africa 10% and Asia 4%.

There were some differences in the 2014 Round in comparison to the previous ones. The Screening Method for Beginners (SMB) was extended to all the participants analysing six coals. In case of values > 3SD, the higher values are truncated at 3SD in the database. VR accreditation was awarded to 106 (out of 112) participants and VC to 101 (out of 108) participants. Two participants failed in both VR and VC. For this round three appeals were received, from which two were rejected, as the failures were due to wrong reporting of results and wrong values, and the one was accepted as the issue was one wrongly marked sample.

One main problem remains the loss of samples as they are possibly confiscated by customs around the globe; this resulted in the loss of the block samples but also significant delays in the procedure and additional postage expenses. The loss of certificates in the post is another severe problem resulting in delays and additional expenses. This year many certificates were returned to sender undelivered. Maybe the ASC has to examine the possibility to send electronic certificates.

Moreover, Kimon mentioned that due to the increased assessment complexity, it is necessary to get software to handle SCAP data, based on the experience of the CBAP. Deolinda will contact INTERRELATE company to request for quotation for the development of an Excel-based application for the evaluation of SCAP data.

The next round will begin in February 2016 with announcement and registration with September 2016 being the deadline for results submission. All the participants will be receiving bulk samples.

Finally, Kimon expressed the interest to move to an Accreditation Programme for low-rank coals in the near future. It was agreed that as an initial step, this will be explored within the Standardization WG.

Kimon acknowledged the support by the ASC members, Deolinda, Paul, Magda, and Paddy; Jen for her logistic support, Gisela and Gerd, as well as by his students Gökem, Maria-Elli and Constadis for assisting in this round.

However, the SCAP program requires additional samples; **Hence Members who can supply with suitable bulk, single coal samples, please contact Kimon: <mailto:christan@upatras.gr>.**

Commission I thank Kimon for all his efforts in convening the SCAP.

Suberinite WG – Peter Crosdale & Antonis Bouzinos
 Peter Crosdale presented the Suberinite WG and provided a short overview of the planned 2015 exercise.

The problematic key issues in suberinite identification were discussed also during the Microscope Session. Photomicrographs from the new exercise, with elevated difficulty, were presented and discussed and it was evident that structure is a key element for many members in discriminating among suberinite and bituminite and/or liptodetrinite.

The new exercise consists of 40 photomicrographs, taken using both black & white and colour cameras, as well as under fluorescence mode; additionally the images are annotated with reflectance values. The participants should identify the marked macerals and also comment, in the cases of suberinite, if they represent “typical suberinite” according to the existed ICCP classification. Twenty one members expressed their interest to perform the exercise.

All the relative documentation of the WG is available on the ICCP webpage, along with the files of the 2015 Exercise (<http://www.iccop.org/workinggroup/suberinite>).

Anyone interested in participating in the new exercise please contact Peter (mailto:peter.crosdale@energyrc.com.au).

Commission I thank Peter and Antonis for convening this very interesting WG.

Standardization WG – Walter Pickel

Walter Pickel presented a very short report from the continuation of the 2010 Standardization Exercise, according to which the participants had to report the maceral-subgroups of the vitrinite group. Previous reports, as well as the exercise files are located in the ICCP webpage (<http://www.iccop.org/workinggroup/standardization>). This year an email was sent to all the ICCP Members to conduct the exercise, however only 3 members responded, and their results were similar to the already received. Walter will compile a final report of this exercise and submit to Commission I.

Some key points that he commented on as conclusions from the round robin results are:

- *It is standard practice to distinguish between Telovitrinite and Detrovitrinite in order to choose telovitrinite as the maceral sub-group on which routinely vitrinite reflectance is determined.*
- *In maceral, maceral group or sub-group analysis care should be taken, especially when results from different analysts or laboratories are compared.*

The Distinguishing Features of Macerals WG will aim to provide additional information in assisting with the distinction between different macerals, hopefully also to assist in the distinction between the vitrinite maceral sub-groups.

Finally, it was agreed that a new Standardization WG Round Robin exercise will be prepared on lignite samples in order to check the possibility of an Accreditation Program for low rank coals or the addition of low rank coals to the existing SCAP program.

Commission I thanks and congratulates Walter for his dedication conducting the Standardization round robin exercises.

ISO Standard – Walter Pickel

Walter discussed the status of the “ISO 7404 Methods for the petrographic analysis of coal” revision. Three parts (2, 3 and 5) have been revised and published by ISO. The chapter ISO “7404-1 Vocabulary” has been revised during 2014 by W. Pickel, P. Hackley, P. Crosdale, I. Suárez-Ruiz, S. Kalaitzidis, J. Potter and, Shifeng Dai on behalf of the ICCP and is now with ISO Committees. During 2015 the Group revised the Part 4 - Method of determining microlithotype, carbominerite and minerite composition, and the documents are with ISO.

During the discussion suggestions were made for changes in Table 2:

- add the names of maceral groups for the Trimacelite microlithotype,
- rephrase to allow for one intersection to be recorded.

Commission I thanks Walter and the WG participants for their efforts in delivering the ISO Standard.

Distinguishing Features of Macerals WG – Walter Pickel

Walter presented the aim of the WG, which is to “*compile criteria that will add more detail to the ICCP 1994 maceral classification and thus support analysts in maceral identification*”. The intention is to add detail in the framework of the existing definitions to assist analysts with further distinguishing features of the macerals they want to identify. He presented draft texts for several macerals from all the maceral groups. This text will be circulated among the 21 members, who expressed their interest to participate with comments and additions. A draft version of this compilation will be presented at the next ICCP meeting in Houston.

Commission I thanks Walter for his efforts.

New Methodologies and Techniques in Organic Petrology WG- Lila Gurba

Lila presented an overview of the **Handbook of Instrumental Techniques Applied in Coal and Organic Petrology: Electron Microprobe** Chapter. She discussed the status of the Handbook, how Electron Microprobe techniques can contribute to Organic Petrology studies and summarised with recommendations for future directions.

The Handbook is structured as follows:

- Part I: The instrument (capabilities, limitations, development of analytical protocols, standards etc.).
- Part II: Coal macerals and source rocks studies using EMA
- References
- Recommendations to ICCP

The main outcome is that EM studies can add value to update the ICCP classifications by providing elemental composition of the various macerals.

Lila will provide the Handbook soon to be available on the ICCP webpage for comments.

Lila also presented a new methodology as part of the Handbook of Instrumental Techniques Applied in Coal and Organic Petrology. The title of the presentation was **X-ray Computed Tomography (Micro-CT)**, and the study is in collaboration with Prof. Christoph Arns from University of New South Wales, Sydney Australia. She discussed the principles and the significance of this application and provided examples on how we can get value by implementing the technique. Main applications could include the studies of shale properties, CO₂

sequestration studies, as well as characterization of coal microstructure and porosity. The presentation is available on ICCP webpage. (<https://www.iccop.org>)

Commission I encourages members to present within this WG research summaries in the broader field of coal science, in which organic petrography could be a significant input. Interested parties please contact Lila (<mailto:l.gurba@unsw.edu.au>) during the year.

Commission I thanks Lila for her ideas and efforts in this WG.

Micro-FTIR WG - K.L Jin, Y.G Tang, S.Q Wang & L Zhao. Shaoqing Wang presented the activities of the WG in a study entitled “**The Micro-FTIR characteristics of different ranks and macerals in coal**”. In his presentation he outlined the Micro-FTIR experimental set up, the results and the problems they faced with the analyses, as well as the future work that needs to be completed. The aims of the WG are to apply Micro-FTIR on coal studies and to standardize the different existing methodologies. The study included the analyses of 10 coal samples from China with VR ranging from 0.32 to 3.81%. The main outcome was the characterization of structural parameters (e.g. CH₂/CH₃ ratio) of vitrinite, sporinite, and fusinite using a curve-fitting routine by PeakFit software. Problems that the group has to overcome are the limited representation of liptinite macerals in the studied samples and the option to perform also quantitative analyses.

For next year the plan is to continue with more analyses on different ranks and coal types.

During the discussion it was agreed that the Convenors will communicate with the interested members to exchange samples and results, so that comparable conclusions can be obtained, towards standardisation of the optimum experimental set up. In total 11 members expressed their interest to participate in the exercise.

Commission I thanks Shaoqing and his colleagues for their efforts in this very interesting WG.

New Handbook Editorial Group – Ivana Sýkorová, Isabel Suárez Ruiz & Kimon Christanis
Deolinda and Kimon presented a short history of the development and the status of the New Handbook. For this year the **Chapters Pyrolytic carbon, TEM microscopy, SEM microscopy and Oxidation** were finalised by the respective Editorial Groups, as described in more detail in the relevant paragraphs below. Other chapters are ready (see ICCP News 2015, vol. 61, p.16), which need to be formatted in a uniform layout. Ivana Sýkorová will also provide the Huminite (Chapter 5.2) and Vitrinite (Chapter 5.1) in the Handbook layout. Due to technical issues the already finalised chapters were not available on the webpage to the members; however a new module will be created to host the Handbook Chapters on the webpage.

Remaining chapters in progress that require extensive revision and edits are: Introduction (Chapter 1), Micro-lithotypes (Chapter 4), Classification of DOM (Chapter 6), Methods (Chapter 7), Coal Utilisation (Chapter 8), Other terms (Chapter 9), ICCP services (Chapter 10).

The Editorial Group seeks for volunteers to assist with finalizing these Chapters.

During the discussion Petra David suggested to scan and publish on the ICCP webpage the old Handbook version, and Commission I will act on this during the year.

It was also discussed that ICCP should seek advice on how to publish in peer review journals parts of the Handbook that various Editorial Groups prepared, so that ICCP will retain or share the Copyright.

The WG is also pleased because Petra David re-joined the Group.

Commission I thanks Isabel, Ivana and Kimon for their efforts on publishing the Handbook, as well as all the valuable reviewers that help to improve the manuscripts prepared by the convenors.

TEM, SEM and Pyrolytic Carbon Editorial Group – Barbara Kwienińska & Sławomira Pusz

Sławomira presented the final text of the TEM, SEM and Pyrolytic Carbon chapters. The manuscripts were reviewed by at least 2 reviewers the previous years and were uploaded on ICCP web page in 2015 for the final review and commenting phase by ICCP members. The manuscripts and the references were revised according to the comments received and formatted according to the Handbook layout. During the meeting there was a suggestion to add colour photos of pyrolytic carbon and Sławomira will act on this.

The final manuscripts were presented and approved unanimously by the Commission I Members in Tuesday's Session.

It was also approved that the approved manuscripts will be published in peer-review journals in a different format under share copyright, something that ICCP Council will handle.

Commission I congratulates Barbara and Sławomira for their excellent work.

QEMSCAN Editorial Group - Sandra Rodrigues & Joan Esterle

Sandra presented the draft manuscript “Quantitative Evaluation of Minerals by Scanning Electron Microscopy (QEMSCAN)” by Sandra Rodrigues, Joan Esterle, Rogério Kwitko-Ribeiro, Leonardo Salazar and Patricio Jaime. QEMSCAN (Quantitative Evaluation of Minerals by Scanning Electron Microscopy) is a fully automated microanalysis system that allows quantitative chemical analysis of materials and generation of high-resolution mineral maps and images as well as porosity structure. It can be applied to the study on mineral matter in coal and characterization of organic matter host rocks.

The draft document included the following chapters:

- Overview: describing the technology and the applications in geological fields.
- Sample preparation: detailing the various forms of samples that can be analysed.
- Analytical protocols: describing the basic elements of QEMSCAN instrumentation.
- Measurement protocols: describing the software used for data acquisition.
- Classification protocols: describing the software used for data processing and interpretation.
- Outputs: detailing the various output formats (i.e. images, graphs, tables either based on mineralogy or elemental quantification).
- References.

At this stage Commission I will seek two reviewers to review the manuscripts within 2015 and then they will be uploaded on ICCP webpage for the final revision phase by ICCP Members.

Commission I would like to thank Sandra for her presentation as well as all the contributors for this useful addition.

Raman Spectroscopy Editorial Group - Barbara Kwiecińska & Sandra Rodrigues

Sandra presented also a draft text of the Raman Spectroscopy Chapter for the New Handbook.

The draft document included the following Chapters:

- Overview: describing the method and the applications in geological fields.
- Raman spectrum in carbon-based materials: describing the method in carbon materials.
- Sample preparation: detailing the various forms of samples that can be analysed.
- Analytical protocols: describing the basic elements of Micro-Raman spectroscopy.
- Measurement protocols: describing the setup of the software parameters for the acquisition of the data.
- Classification protocols: in progress.
- Outputs: in progress.
- References: in progress.

The WG will finalise the manuscript in 2016 and will deliver it to Commission I for the review phase.

Commission I would like to thank Sandra and Barbara for their efforts in delivering this very useful addition to the New Handbook.

Liptinite Editorial Group – Walter Pickel, Jolanta Kus & Peter Crosdale

Walter presented the manuscript of the Liptinite sheets along with the photomicrographs that were selected. The Liptinite chapter was delivered to Commission I and was uploaded on the webpage in July 2015 for ICCP Members to review. Hard copies were also delivered during the Meeting so that members had the chance to review it. Several members provided with comments that were incorporated into the text.

A final version was delivered during the GA on Thursday the 10th and the manuscript was put to voting. From 44 present members, 43 voted in favour and 1 against, hence the Liptinite sheets manuscript was approved. It will be formatted according to the New Handbook layout and also will be submitted for publication to a peer review journal under a share copyright scheme.

The final version is available on the ICCP webpage (<http://www.iccop.org/workinggroup/liptinite>).

Commission I congratulates Walter, Jolanta and Peter for their work on the Liptinite chapter.

Oxidation Editorial Group – Jolanta Kus & Magdalena Misz-Kennan

Jolanta presented the final text of the Oxidation Chapter, which is structured in 9 chapters. The Manuscript was uploaded on ICCP webpage and members were informed by email to revise it during the year. Six members, Brett Valentine, Brian Cardott, Walter Pickel, Nikki Wagner, Stavros Kalaitzidis and Ivana Sýkorová sent their comments by January 2015. The final manuscript includes 13 plates of photomicrographs from weathered coals.

The final manuscript was presented and Commission I members approved it unanimously.

The WG will format the manuscript according to the New Handbook layout and also will seek to publish it in a peer review journal under a share copyright scheme.

Commission I congratulates Jolanta and Magda for their work on the Oxidation Chapter.

Petrographic Image database - Johan Joubert, Paddy Ranasinghe & Paul Hackley

Unfortunately the petrographic image database didn't progress during 2015. However, Paul Hackley presented a short overview of the **USGS Organic Petrology Photomicrograph Web Atlas, which can be found at <http://energy.usgs.gov/Coal/OrganicPetrology/PhotomicrographAtlas.aspx>**.

During the Meeting it was decided that Petra David will convene the WG with Paul, Paddy and Stavros. Silk Tech S.A. will be conducted to explore the options to develop the required software and to incorporate the image database on the ICCP webpage.

Commission I realises the need to develop the Image Database and is dedicated to initiate this task within 2016.

Enhancements of Fossil Measurement System - Carl Hilgers

Carl presented an overview of the Fossil System and its development history. The main principle is the utilization of monochromatic camera as a photometric sensor and that reflectance can be measured at any point of the observation field and not only under the cross-

hair. The new additions on the reflectance measurement software include:

- Focus with stacked images (Z-stack) in reflected white light and fluorescence images.
- Fast auto-focus, which allows for quick scanning of many images.
- Automatic detection of sample homogeneity during the scan.
- Measurement of maximum reflectance either with rotating stage or automated maximum reflectance with motorized polarizer.

The most recent developments include:

- The option to perform reflectance and fluorescence intensity measurements using a Zeiss spectrometer.
- The release of the Fossil “Light” software version.

Carl also presented a series of photomicrographs taken with the Fossil Measurement System as well as he demonstrated a “live” reflectance measurement of a coal sample.

Commission I thanks Carl for his efforts in developing useful tools for organic petrographical studies and for his enormous support in our activities.

Microscope session

Commissions I, II and III held a joint microscope session on Tuesday the 8th at 14:30-17:30. Peter Crosdale discussed photomicrographs of the new Suberinite WG exercise. The attendees had to identify suberinite in samples from Surat Basin, Australia. The attendees discussed the features of the suberinite and its association or not to coropogelinite, as well as the differences between “dark vitrinite” and “possible suberinite”. The Suberinite WG will definitely provide useful conclusions that could be used by the Distinguishing Features EG and/or in future amendments of the definitions. Additionally Peter presented Australian Permian coals of high rank ranging in VR between 2.5-5% and interesting discussions were achieved regarding the identification of different macerals in this rank range. Particularly of interest was the differentiation between telo- and detrovitrinite, as well as between vitrinite and semi-fusinite.

Magdalena Misz-Kennan also discussed during the session the photomicrographs of the Self Heating WG, as in several of the images the agreement was low.

Commissions I, II and III would like to thank Peter, Magda and Carl Hilgers, who provided the microscopic facilities, for their contribution in this successful session.

Xylite-rich Lithotype Classification WG – Yiannis Oikonomopoulos

Yiannis Oikonomopoulos proposed a new WG under Commission I, with the objective to develop a Classification scheme for Xylite-rich lithotypes of low-rank

coals. Stavros presented the preliminary working plan, according to the ICCP check-list, on behalf of Yiannis during the short-report session of Commission I on Thursday’s General Assembly.

For the first 2 years the working plan will be as follows:

- Detailed review of the existing literature on xylite-rich coals.
- Collection of new data concerning various “xylite” types that occur in xylite-rich lignite deposits in Eastern Europe and Asia.
- Contribution to the ICCP database with photomicrographs of woody materials.
- Adding to the existing nomenclature.
- Propose a new classification system to the ICCP.

Sixteen members expressed their interest to participate in the activities of this WG. The plan was approved by the members and Commission I welcomes this new WG and thanks Yiannis for his initiative.

Closing Remarks

Deolinda Flores and Stavros Kalaitzidis closed the Session of Commission I.

ICCP Members were reminded that the following Commission I Services are available for the Coal Petrography Community:

Single Coal Accreditation Program, SCAP – Kimon Christanis (mailto:christan@upatras.gr).

Reflectance Standard Checking: The service to check standards against the *ICCP Reflectance Standard* continues; available from Dave Pearson, Walter Pickel and Gred Bieg (USD 50 and free for ICCP members).

As per final remarks Commission I would like to encourage ICCP members to visit the webpage, since a lot of data and information from the WGs have been uploaded <http://www.iccop.org/commissions/commission-i/>.

The presentations of the Meeting are also available in the secure area of the webpage, and the convenors of the various WGs are encouraged to check and update regularly the web material.

Finally, Commission I would like to thank all the participants of the sessions for their active participation that resulted in another productive Meeting.

Note from the Editor: Please remember to bring coal blocks along to the Meeting for general consideration and discussion in the Microscope session.

Minutes of ICCP Commission II

Geological Applications of Coal and Organic Petrology

Chair: Paul Hackley, [mailto: phackley@usgs.gov](mailto:phackley@usgs.gov);
Secretary: Jolanta Kus, [mailto: J.Kus@bgr.de](mailto:J.Kus@bgr.de)

Wednesday – 09th September

The Commission II meeting started on Wednesday September 09th at 08:00 in Lecture Rooms H206 & H207 of the Building H at Telegraphenberg, Potsdam, Germany, attended by 34 participants.

08:00 – 08:45 - Opening address – Paul Hackley & Jolanta Kus

The opening address of Commission II, was given by Paul Hackley and was followed by a short presentation of the work schedule of Commission II for Wednesday. The Chair also informed about the possibility of obtaining training and calibration materials such as the Atlas for Anthropogenic Particles, the Training Kit on Vitrinite Reflectance Measurement in DOM, the Training Kit for Spectral Fluorescence Measurements and the ICCP quartz iodine calibration lamp for fluorescence measurements for ICCP members and non-members. The Chair asked conveners to provide necessary updates to the website.

08:45 – 09:15 - Dispersed Organic Matter White Paper WG – convener: Mária Hámor-Vidó

The aim of the WG is to provide a reference text for the petrographic analysis of dispersed organic matter including identification of components and thermal maturity. Mária Hámor-Vidó presented the 2015 activities of the Working Group and gave a short overview of the 11th version of the White Paper. The current version includes seven chapters with about 78 pages. Revisions of some chapters are necessary. Mária Hámor-Vidó will prepare the latest version of the manuscript with figures and will send it to some authors of the respective chapters for revision purposes. The convener asked also for new contributors as well as contributions of photomicrographs.

Commission II congratulates Mária Hámor-Vidó for the current work that has been accomplished in the WG.

09:15 – 10:00 - Shale Gas WG & CBM/CO₂ Sequestration WG – convener: Lila Gurba

The objectives of the 2010 established Shale Gas WG are to monitor issues and topics of shale gas relevant to organic petrology, to develop an ICCP Shale Gas Handbook and to conduct Round Robin exercises to assess various thermal indicators, if required. The convener gave a short overview of the activities carried out within the WG. Lila Gurba presented work carried out by the Energy Minerals Division of the AAPG stressing the importance of applied definitions and classifications as well as discussing main concerns related to shale gas resource estimates based on thermal maturity assessments and uncertainty of data quality. With regard to the Shale Gas Handbook, the convener presented a short overview of its proposed contents. The convener plans to circulate a draft version of the structure of the Handbook to members of the WG after its completion in 2 to 3 months' time. Literature review will be also included.

Commission II thanks Lila Gurba for her work carried out within the WG and congratulates her.

The objectives of the CBM/CO₂ Sequestration WG, established in 1998, is to present the main aspects of worldwide activities of CBM and CO₂ gas storage and to outline factors contributing to adsorption capacities of methane and CO₂. Following a general explanation on subject of coal characterisation applied to coal seam storage of CO₂ (e.g., micro-CT technique), the convener gave a review on CBM presenting main outcomes of the IEA Clean Coal Center Report by Lesley Sloss. One of the main outcomes is that recovery rate of methane is usually limited by the coal seam gas pressure and diffusion rate. Many pilot studies carried out are lacking an economic or commercial phase. With regard to the factors that contribute to adsorption capacities of methane and CO₂, Lila Gurba gave a short review and presented a data base requesting input from ICCP Members.

Commission II thanks Lila Gurba for her valued work carried out within this WG.

10:00 - 10:30 – Reappraisal of Pseudovitrinite WG – convener: Lila Gurba

Lila Gurba presented a historical development of the work carried out in the two former Pseudovitrinite WGs, i.e., the first one (I) in 1965-1982 and the second one

(II) in 1996-2003. The convenor indicated that in 2003 a submitted document to the ICCP on the progress of the Pseudovitrinite WG was put on hold. The current status of the WG is as follows: Part I of the work carried out in 1965-1982 on pseudovitrinite by ICCP participants has been completed by H. Smith and is ready to be published in IJCG as a manuscript. The second part comprising activities from 1996 to 2004 is drafted and has been sent out to the former participants for comments. In addition, Lila Gurba prepared a draft version of a Pseudovitrinite Handbook. Ángeles Borrego remarked that the results of the round robins involving the SEM analyses carried out within the scope of the II Pseudovitrinite WG were not conclusive and that there was not a decision taken to prepare and publish a Handbook on Pseudovitrinite. The convenor responded that the SEM derived results were certain and that the proposed draft of the Pseudovitrinite Handbook is an intention and an idea to combine the work achieved by Jolanta Kus and Magdalena Misz-Kennan on pseudovitrinite. It was made clear by Ángeles that pseudovitrinite is not an accepted term within the ICCP terminology.

Commission II congratulates Lila for the effort to finalize the past activities related to pseudovitrinite.

10:30 - 11:10 - Identification of Dispersed Organic Matter WG – convenor: Jolanta Kus

Jolanta presented the 2015 activities of the working group, since its establishment during the 2005 Patras Meeting, giving a review of performed exercises, completed reports and delivered presentations. The objective of the WG is to test the applicability and restrictions of the existing ICCP terminology of alginite and bituminite in whole rock samples. The convenor prepared a draft manuscript from the last three Round Robin Exercises 2006, 2009 and 2011 to illustrate current limitations of the ICCP Terminology for bituminite and alginite. The draft version of is planned to be distributed in October 2015. Jolanta Kus presented a proposal for the next year exercise on bituminite in whole rock and kerogen concentrate. The kerogen concentrates will be kindly prepared by João Graciano Mendonça Filho.

Commission II congratulates Jolanta Kus for her effort to finalize the past activities within the WG.

11:10 - 11:30 - Identification of Primary Vitrinite WG – convenor: Paul Hackley

Paul Hackley gave a short historical review of activities carried out within the WG established in 2008, including among others interlaboratory study performed in 2012-2013 with the aim to test the ASTM D7708. The results of the interlaboratory study were published in 2015. One of the outcomes of the study was that repeatability and reproducibility limits degraded consistently with increasing maturity and decreasing organic content (except for Type III kerogen). The convenor presented then a proposal for the 2015-2016 interlaboratory study to be carried out on high maturity samples with high TOC contents.

Commission II thanks Paul Hackley for his highly valued work and determination offered within this WG

11:30 - 12:00 - Correction Function for Fluorescence lamps – presentation: Ángeles Borrego

The convenor presented deviations (irregular peaks in similar emission range between 600 and 700nm) in the emission spectra of the ICCP lamps nr. 3 and nr. 5, as measured at CSIC, Spain, introducing artifacts in the respective correction functions. Secondly, Ángeles indicated that there is a difference in the spectra of the ICCP lamp 3 and 2B measured by the same equipment and measured by different devices. Thirdly, there is a difference in the correction functions for the lamps nr. 3 and nr. 5 measured within five years difference. A possible solution to the problem might be the use of fluorescence standards as proposed by the convenor and use of a halogen lamp as a certified calibration lamp followed by a calibration filter at a standard voltage and search for a certified halogen lamp as suggested by Harald Behl von A.S. & Co. GmbH, Germany.

Commission II congratulates Ángeles Borrego for her efforts to raise these important issues related to fluorescence spectral analyses.

12:30 – 13:30- DOMVR Accreditation Program – Ángeles Borrego

Ángeles presented an extensive summary of the Dispersed Organic Matter Vitrinite Reflectance (DOMVR) Accreditation Program. The DOMVR Accreditation Program was initiated by Alan Cook in 2006. The 2014-2015 Round was again a successful one with all 56 participants becoming accredited including 15 entry participants and 41 continuing participants. The highest number of participants was from Columbia followed by the USA, Australia and Brazil. Participants from the European countries were in the minority. In general, over the last two DOMVR rounds there is an increasing tendency in participation from South and North American countries as well as from Europe. In addition, a marked rise of non-ICCP members among all of the participants was noticed in the last two DOMVR Rounds. The fifth DOMVR Accreditation Round started

in the first trimester of 2014 and was accomplished by the 31st October. The results were evaluated in December with validity of the DOMVR accreditation extending until the 31 December 2016. The terrestrial samples display low scatter in the values as shown by GSD (0.058; 0.062) as opposed to marine samples with high GSD (0.184; 0.270). Most participants had moderate to high precision in their values (AUMSD) and low bias (ASMSD). The list of DOMVR accredited petrographer is updated on the ICCP website.

A new accreditation round will commence in 2016 launching the sixth DOMVR round in April. New participants will receive six samples to analyse whereas continuing participants will receive two. The samples are going to be sent in May-June with deadline for submission of results in October. All interested persons are encouraged to contact Ángeles at angeles@incar.csic.es to participate in the 2016 DOMVR Accreditation.

14:30 – 15:10 - Palynofacies WG - convenor: João Graciano Mendonça Filho

João presented results of the third (2015) Exercise focusing on characterisation of the origin of marine palynomorphs as well as on the identification of individual particulate components, and preservation state in strew mounts, kerogen concentrates and whole rock samples. The objective of the exercise comprised also a potential correlation of palynofacies information obtained in this exercise with the ICCP classification of macerals.

The presented results on the strew mounts displayed a predominance of palynomorphs among the kerogen groups, pointing to the dominance of Acritarchs and Prasinophytes among the subgroups in the PWG3 sample and to AOM in the PWG4 sample. In the whole rock and kerogen concentrates, a predominance of liptinite over other groups was documented in one of the samples, whereas the correspondence in the second sample was less obvious.

In the correlation between palynomorph populations in strew slides and alginite macerals in WR samples, **positive correlation between the majority of marine palynomorphs and lamalginite macerals was obtained. However, the predominance of AOM in strew slides cannot be properly correlated to whole rock samples.**

With the completion of the third 2015 exercise on the particles in Palynomorph Group, João Graciano Mendonça Filho proposes for 2016 that the working group will continue to focus on the Palynomorph Group, using 2 samples. A fourth 2016 exercise will encompass freshwater palynomorphs from the Palynomorph Group. In the subsequent discussion, Mária Hámor-Vidó commented that the liptinite macerals in WR samples were small and of weak fluorescence, which might have influenced the overall results. Paul Hackey asked whether there will be a report on the results of this years round. João Graciano responded that a general

report will be provided after all exercises are accomplished.

Commission II congratulates João Graciano Mendonça Filho for his well conducted work in the WG.

15:10 - 15:30 - TSOP-ICCP DOM Atlas– acting convenor: Isabel Suarez-Ruiz

Isabel presented the historical development of the TSOP-ICCP DOM Atlas Project. The issued version of the DOM CDs was subjected in 2013/2014 to a thorough review by an ICCP panel. A great number of amendments were successfully accomplished regarding, e.g., compliance of applied terminology to the TSOP-ICCP Classification of DOM, changes to the presented organic petrology methods, misleading identifications of components in the provided photomicrographs, need of new images (maceral and formation examples), updates of bibliography, etc. Overall, substantial revisions were completed. In addition, Ángeles Borrego and João Graciano Mendonça Filho provided numerous additional photomicrographs to fill the existing gaps in the plates. Last preparations will include the reorganization of the photomicrographs in the TSOP-ICCP DOM Atlas by Isabel Suarez-Ruiz with assistance of Taissa Menezes and Paula Gonçalves. The final version of the TSOP-ICCP DOM Atlas ready for approval next year.

Commission II thanks Isabel Suarez-Ruiz for her highly valued work and determination offered within this WG.

15:30-16:00 – Closing remarks – Paul Hackley & Jolanta Kus

Paul congratulated all conveners of the WGs as well as the numerous participants of the ICCP Meeting for their significant and stimulating work and fruitful discussions. The Chair also thanked ICCP members who have actively participated in a number of the round robin exercises carried out in 2014 and 2015 and encouraged conveners to publish valuable results in international journals and the ICCP News. Paul asked all conveners to send their presentations and updates for the ICCP Commission II website to Paul Hackley or Jolanta Kus.

Paul presented a proposal for a new WG in Commission II, “Applications of confocal laser scanning microscopy to organic petrology” which was accepted by the gathered attendees. A note introducing this proposal was earlier presented in ICCP News. Paul will contact the Commission II attendees and members to identify participants in the new WG. The gathered attendees also accepted that the proposal given by Angeles Borrego on the correction function for spectral fluorescence lamps warranted formation of a new working group to study this issue. Richard Orbán agreed to convene the new WG and agreed to outline the objectives of the WG in a note for ICCP News.

Minutes of ICCP Commission III

Industrial Applications of Coal Petrology

Chairperson: Isabel Suárez-Ruiz mailto: isruiz@incar.csic.es

Secretary: Magdalena Misz-Kennan mailto: magdalena.misz@us.edu.pl



67th ICCP Meeting,
Potsdam, September 9
– 10, 2015

Wed 9 Sept: 16:45-16:55 - Opening address

The Commission III meeting started at 16:30 Wednesday September 9th and was attended by 35 participants. Isabel Suárez-Ruiz presented opening remarks, the schedule for 2015 Meeting of Commission III, the individual working groups, their aims, conveners and activities in the past years and also the activity of Coal Blend Accreditation Program.

16.40 – 17.20 Carbon Materials Working Group conveners: Georgeta Predeanu, Cornelia Panaitescu

Georgeta Predeanu presented the objectives and the participants of this working group. She presented Round Robin Exercises that were prepared in years 2009-2013, as well as the results evaluation. Several publications came out of this Working Group, the most important one being the one published this year (2015) in International Journal of Coal Geology (139, 63-79). The other results were published in ICCP News Letter (2010) and abstract books from ICCP Meetings (2013). The next Round Robin Exercises were proposed and they will be carried out in a first stage using activated carbon (of coal and biomass) and precursors of activated carbon (chars, biochars). The justification of the choice being: i) expanding the applications of these types of materials; ii) interesting structures that can be widely analysed through optical microscopy i.e. raw materials of coal origin and lignocellulosic materials in the stages undergoing pyrogenetic and activating reactions; iii) conveners experience in a wide range of activities related with obtaining and using activated carbons; iv) other ICCP members experience in such research and providing samples.

The planned next exercises will be based on photomicrographs, and will focus on one of the

most promising raw materials, “xylite”, which represents a proper precursor for activated carbon manufacturing, having increased adsorbent properties. In the exercise participants will be asked to describe the optical appearance of the carbon textures and highlight the morphological differences as: optical texture and shape, optical type and size, to evaluate the origin of optical texture and the porosity development, to evaluate the structural and textural aspects with an emphasis on quality control of raw materials (coal – xylite and/or biomass) either on different intermediary technological stages (drying, preheating and pyrogenation), to distinguish between different classes considered both for the optical type, and optical texture/shape and size. The microstructural studies on the activated carbon, intend to reveal the different behavior of textures in superheated steam-CO₂ gasification processes.

The exercise promises to be easier than the previous once. In order to increase the diversity of sources and types of samples that may be of interest for the next Round Robin Exercises, as well as the applicability/scope of this working group activities considering present preoccupations of various laboratories and ICCP members with recognized experience in the field (from Spain and Poland) in the production of carbon materials from different raw materials and applying various technologies, new co-conveners were invited. It was agreed that Isabel Suárez-Ruiz and Magorzata Piechaczek will co-convene this working group.

Isabel Suárez-Ruiz thanked Georgeta for all her great work and promised to send her samples of activated carbons that could be used in the next Round Robin exercise. Petra David asked who might be interested in the results of this working group; Georgeta explained that the results might be of interest to various industries that provide lignocellulosic materials that can be used to obtain activated carbons, but also for different users of activated carbons, such as for: food purification, air and waste water purification, medicines.

Petrology has a very distinctive role as it gives interesting results of what is happening during the process from raw material to carbon material. It is now planned to develop two – three Round Robin Exercises starting with coal. Participants of the working group and other ICCP members were asked to provide various types of activated carbons and precursors that can be used in the exercises.

17.20-17.35 – Fly Ash Working Group
convenors: Isabel Suárez-Ruiz and Bruno Valentim

Isabel Suárez-Ruiz presented the Atlas of Fly Ash occurrences, its aim, contributors, classification of fly ash components and how it works. During the course proceeding this year ICCP meeting, a mistake was found by one of the participants and it will be corrected. The 6th version of the Atlas was prepared and it will be uploaded to the ICCP web page. It will be available for free for everybody as a download (but not to modify it). It will have an ISBN number and the copy rights will be for all co-authors. It is planned that in November 2015 a paper based on this working group will be prepared by Isabel Suárez-Ruiz and Bruno Valentim with all participants of this working group as co-authors. The paper will include the char classification. Angeles Borrego asked if the Atlas will be in the form of Power Point presentation and Isabel answered that it will be in similar form. In pdf format the Atlas does not work. One participant asked how much porosity is allowed to call a particle dense and Isabel answered that the present classification is based on point counting and you classify the forms in the same way as macerals.

The meeting finished at 17.35.

Thursday, September 10, 2015

The meeting started at 8.30 with 32 participants. Isabel Suárez-Ruiz welcomed everybody and presented the schedule of Commission III for that day.

8.30 – 8.50 Coal Blend Accreditation Program
convener: Isabel Suárez-Ruiz

Isabel Suárez-Ruiz gave the outline of the objectives of Coal Blend Accreditation Program and explained all the parameters that are required for its evaluation. The Excel sheet of the results sent to her by participants and the program used for evaluation of results as well as

the data base were presented. An example of the certificate that is sent to participants was who successfully completed the requirements for the accreditation was shown. The certificate is automatically generated by the program. At present the evaluation can be done in four minutes for all participants, which is a huge advancement compared to the former situation connected with the lack of a proper data base. The problem was solved with the help from Deolinda Flores and Vilma and Álvaro from Spin-off with the Porto University.

Angeles Borrego remarked that it is a great advance comparing to previous times. Deolinda Flores said that now it is possible to confirm that the data base is working properly.

8.50 – 9.30 Self-heating Working Group
convenors: Magdalena Misz-Kennan, Jolanta Kus, Deolinda Flores

Magdalena Misz-Kennan presented the aims of this working group, its participants, former activities and the new proposed classification of thermally and oxidatively affected dispersed organic matter in coal waste dumps. The classification scheme used is similar to the fly ash classification and has several levels: Level 1: determines the nature of the particle; here two categories are distinguished: organic and mineral; Level 2: determines the degree of alteration of organic particles (organic particles were further divided into three types: non-altered, altered, newly formed); Level 3: determines the structure of particles (that level applies only to altered particles that are divided into: porous and massive); Level 4: determines the optical properties of particles (both massive and porous particles were divided into two categories depending if they are fluorescent and non-fluorescent); Level 5: determines the texture of the particles (in this level fluorescent particles are isotropic and non-fluorescent particles might be: isotropic and anisotropic); Level 6: determines associations linked with the particle. In Level 6 various categories can be distinguished among the isotropic and anisotropic particles: for non-altered particles: huminite, vitrinite, liptinite, inertinite; for newly formed particles: bitumens, pyrolytic carbon, chars, graphite, coke; for altered particles: fractures, fissures, paler in colour oxidation rims, darker in colour oxidation rims, fractures with paler in colour oxidation rims, fractures with darker in colour oxidation rims, plasticised edges, plasticised edges with paler in colour oxidation rims, plasticised edges with darker in colour oxidation rims, bands; devolatilisation pores, devolatilisation pores with paler in colour oxidation rims, devolatilisation pores with darker in colour oxidation rims, paler in colour particle. Magda presented this year Round Robin Exercise that was based on 30 photomicrographs and prepared in the

form of Power Point presentation. In this exercise participants were asked to determine the form of organic matter in the square in accordance to the newly established classification and mark the answer in all levels in the attached Excel file. The reflectance of unaltered organic matter was 0.6%. The results were sent by 19 participants, including 4 new participants. Some participants also sent comments. In general the results were very good. It was decided that the definitions of forms have to be prepared more clearly and then the exercise should be repeated.

9.30 – 9.45 Optimization of Reflectance Measurements Working Group conveners: Joan Esterle and Ashok Singh

Magda Misz-Kennan gave the presentation on behalf of Joan Esterle and Ashok Singh. During the activity within this working group it is planned to count the reactive macerals and measure the vitrinite reflectance in each single coal derived from different countries i.e. India, Australia, New Zealand, Indonesia, China, USA, Mozambique, etc initially, repeat the exercise after blending the coals of different origin in varying ratios. That would enable optimization for suitable blends to prepare desired cokes for the steel industry and also enable to refine/re-define the number of counts for reactive macerals and also numbers of vitrinite grains for mean max reflectance and V-step combinations. The list of potential participants was presented, and further participants invited to join this working group. It was suggested by Gerd Bieg that maybe instead of measuring R_{max} , R_r should be measured as R_{max} measurements are very times consuming. Isabel Suárez-Ruiz emphasized the problems with measurements of R_{max} and R_{min} and the need to recalculate the values if measurements are taken on pellets.

9.45 – 10.30 Characterisation of Gasification Products Working Group convener: Nicola Wagner

Nikki Wagner presented the problems related to coal gasification and the basis of the next Round Robin Exercise. The exercise was going to be based on a 100 photomicrographs but it was suggested that 50 photomicrographs will be enough. Participants will be asked to recognize a form of gasification product in a square of the size $50\mu\text{m} \times 50\mu\text{m}$ as it is used in microlithotypes. She proposed a classification of gasification products and terminology that essentially is based on terminology used in char classification

by Lester and in Self-heating Working Group. Nikki then presented a large number of photomicrographs of gasification products. Peter Crosdale asked about the size of particles; Nikki responded that the samples are not crushed, with particles ranging from micron sized to over 1 mm in size. Isabel thanked Nikki for her great presentation and work.

After coffee break the meeting continued at 11.00

11.00 -11.50 Coke Petrography Working Group and Related Activities convener Laureen Johnson

There was no activity in this working group during the last year. David Pearson gave a presentation on the Coke Petrography meeting, Duisburg, November 12-13 2014. The presentation was followed by two presentations given by Richard Pearson: Comparison of reflectance measurements and Statistics of quantitative coke reflectance measurements.

Isabel Suárez-Ruiz thanked Dave and Richard for their interesting presentations and encourage them to be strongly involved in the WG activities, so that results from team-based work could be obtained and presented during the coming ICCP Meetings.

12.15-12.25 Opportunities of New Working Groups: Isabel Suárez-Ruiz

There are several opportunities for new working groups.

1.) Liquefaction Residues Classification Working Group was proposed, convened by Henny Gerschel as she proposed the working group. The aim of this working group will be to study the reaction and conversion conditions during the liquefaction process and the influence on the morphology of the obtained residues by using optical microscopy. The authors requested some help from Commission III, related to a potential validation of the residue types that the authors have identified; it was proposed to send some images with their corresponding identification performed according to the ICCP (1993) system. Henny also presented the schedule of this working group. Angeles Borrego asked if the classification will be different comparing to the classification of pyrolysis residues. Henny replied that pyrolysis is in use in liquefaction. A representative from India asked what particles are going to be studied and Henny answered that all particles from all types of liquefaction processes, both direct and indirect. It was also asked what coal will be used in this working group: lignites from German deposits.

The working group was accepted.

2) A reactivation of Environmental Working Group was proposed by Stavros Kalaitzidis. The working group was previously within Commission II and now will be moved to Commission III. The working group finished a few years ago with the compilation of the Atlas of Anthropogenic particle under the guidance of Maria Mastalerz. The new conveners will be George Siavalas and Stavros Kalaitzidis. Stavros presented the tasks for the next years. In next one - two years a list of publications on the subject and methods used will be compiled and a Round Robin Exercise with environmental samples to test the applicability of the Atlas or of the various published classification schemes will be prepared. For the following three – four years the working group will be working on a classification for environmental samples.

The reactivated working group was accepted.

3) Then there was discussion around the proposed Structural Order Accreditation Program that Sandra Rodrigues agreed to convene at the previous meeting. Angeles Borrego remarked that the background for the Accreditation Program is done but the problem is the number of participants. The number of participants should be at least 30 - 50 people for statistical purposes. For that reason there is no point in the Accreditation Program if the number of participants is only 3-5. Sandra suggested that maybe we should do it on other materials and Angeles said that there is no need for it. Sławka Pusz expressed her doubts whether such Accreditation Program is necessary for industry. Isabel Suárez-Ruiz suggested to leave it at the moment and have it opened for possible future works. Sławka remarked that people should rather think of new ideas for future.

Finishing the work of the Commission, Isabel thanked all conveners and participants for their work. As it was her last time as a chair of Commission III, she thanked everybody for their work and presented Magda Misz-Kennan as new chair of this commission wishing her all the success.

12.00-12.15. Commission III Concluding remarks; Isabel Suárez-Ruiz, Magdalena Misz-Kennan

Materials should be sent to Magda Misz-Kennan to update the web page of Commission III. The working groups made great progress within last year and in one case a paper in International Journal of Coal Geology was published. The work in CBAP will be much easier in future as data base is working and that is a mile stone in the activity of this program. Coal Gasification Working Group is now very promising. Fly Ash Working Group was finalized with the Atlas that will be uploaded to the web page of ICCP. The Carbon Materials Working Group will continue with new samples and new co-conveners, Isabel Suárez-Ruiz and Małgorzata Piechaczek.



Dave and Paddy earnestly solve the worlds' problems



Sweet moments shared at the ICCP.



New ICCP working group in Commission II: Correction Function for Spectral Fluorescence Measurements

Fluorescence microscopy has been applied to the petrology of sedimentary organic matter since 1936 (Schochardt, 1936; cited in Taylor et al., 1998, p. 407). The measurement of spectral fluorescence by recording the emission spectrum between 400–750 nm has grown steadily in importance since the 1970s (Jacob, 1965; van Gijzel, 1967, 1975, 1981; Ottenjann et al., 1975; Ting and Lo, 1975; Alpern, 1976; Teichmüller and Ottenjann, 1977; Ottenjann, 1980; Teichmüller, 1982, 1984). Spectral fluorescence parameters [e.g., λ_{\max} ; red to green ratio (Q)] can be used to determine thermal maturity in dispersed organic matter, particularly where vitrinite is rare, absent or ambiguous in presentation (Pradier et al., 1988, 1991; Stasiuk, 1994; Thompson-Rizer and Woods, 1987). To obtain comparative results among different laboratories a standardized procedure is required to determine a correction function for individual microscope systems (e.g. Araujo et al. 1998, 2014). Araujo et al. (1998) reviewed the experiences of two inter-laboratory exercises organized within ICCP Thermal Indices Working Group with the purpose of improving the reproducibility and comparability of spectral fluorescence measurements. In the review (Araujo et al., 1998) the authors concluded that calculation of relative correction functions using a calibrated common lamp source (Baranger et al., 1991) significantly reduced the scattering of fluorescence data determined on *Tasmanites* algae. In 2014 Araujo et al. stated that using a common lamp source for microscope calibration should be considered in the future development of a standardized methodology for

spectral fluorescence measurements.

At the September 2015 ICCP Commission II meeting in Potsdam, Germany, Angeles Borrego, suggested that additional work is needed in the standardization methodology. After her presentation it was agreed that ICCP would initiate a new working group (WG) convened by Richard Orbán within Commission II (Geological Applications of Organic Petrology) to find answers to the following questions:

- Can we review, clarify and improve the procedure on calculation of relative correction function using a calibrated common lamp source?
- Do we need another type of light source (e.g. Halogen Lamp) and calibration methodology?
- Should we organize an exercise using a Halogen Lamp?
 - a halogen lamp which is widely available, and already present in the microscopes.
- Do we need a known spectrum for the lamp?
- How do we calculate the correction function?

The working group on Correction Function for Spectral Fluorescence Measurements will be open to all professionals interested in standardizing the methodology of spectral fluorescence measurements on microscopic organic particles. **Interested parties are encouraged to contact Richárd Orbán (<mailto:orban@mol.hu>).**

(Editor: INCLUDED REFERENCES HAVE BEEN REMOVED DUE TO SPACE RESTRICTIONS—PLEASE EMAIL RICHARD).

Invitation to participate in dispersed organic matter reflectance round robin exercise, New Working Group Commission II

Your participation is requested for a new ICCP inter-laboratory exercise to measure dispersed organic matter reflectance in North American shales. The new study was approved by ICCP Commission II at the September, 2015, meeting in Potsdam, Germany. Participants will measure reflectance via ASTM D7708 for 5-6 North American shale samples, e.g., Marcellus, Eagle Ford, Bakken, Barnett, Haynesville, and Niobrara. Samples will be distributed in ~1 g aliquots of crushed rock and prepared in the participating laboratories. Measurement will be in duplicate to further develop repeatability statistics for ASTM D7708. The exercise will launch in late 2015, measurement results will be due in mid-2016. Results will be used to update precision and bias statistics for ASTM D7708 and ultimately will be published in a peer-reviewed venue similar to a prior interlaboratory study (Hackley et al., 2015). Participation is open to all proficient at measuring dispersed organic matter reflectance and over thirty-five practitioners have already

agreed to join. To participate please contact Paul Hackley (<mailto:phackley@usgs.gov>).

References

ASTM D7708 Standard test method for microscopical determination of the reflectance of vitrinite dispersed in sedimentary rocks: Annual book of ASTM standards: Petroleum products, lubricants, and fossil fuels; Gaseous fuels; coal and coke, sec. 5, v. 5.06: ASTM International, West Conshohocken, PA, p. 823-830, doi: 10.1520/D7708-11, <http://www.astm.org/Standards/D7708.htm>.

Hackley, P.C., Araujo, C.V., Borrego, A.G., Bouzinos, A., Cardott, B., Cook, A.C., Eble, C., Flores, D., Gentzis, T., Gonçalves, P.A., Mendonça Filho, J.G., Hámor-Vidó, M., Jelonek, I., Kommeren, K., Knowles, W., Kus, J., Mastalerz, M., Menezes, T.R., Newman, J., Oikonomopoulos, I.K., Pawlewicz, M., Pickel, W., Potter, J., Ranasinghe, P., Read, H., Reyes, J., Rodriguez, G.D.L.R., Fernandes de Souza, I.V.A., Suarez-Ruiz, I., Sýkorová, I., Valentine, B.J., 2015. Standardization of reflectance measurements in dispersed organic matter: results of an exercise to improve interlaboratory agreement. *Marine and Petroleum Geology* 59, 22-34.

New ICCP working group in Commission II: Applications of Confocal Laser Scanning Microscopy (CLSM) to Organic Petrology

At the September 2015 ICCP meeting in Potsdam, Germany, a new working group was approved in Commission II to study applications of confocal laser scanning microscopy to organic petrology. In 2015-2016, participants in the new working group will investigate potential access to confocal microscopes in nearby university, government and industry facilities and compile a

description of available instrument parameters, e.g., type of lasers, detectors, objective lens, etc. Participants will also compile a list of confocal applications which they are interested in studying within the working group, e.g., 3-D imaging, spectroscopy, etc. Interested parties are encouraged to contact Paul Hackley (mailto:phackley@usgs.gov) and Jolanta Kus (mailto:j.kus@bgr.de) to participate. Participants will be sent a short survey from which to answer questions about available instrument parameters and interest in potential applications.

Membership Matters

Introduced and accepted as Full Members at the Potsdam meeting

Dr Dragana Žvotić
University of
Belgrade, Serbia



Dr Paula Goncalves
University of Porto, Portugal



Change of contact details:

Nikola Van de Wetering
Applied Geochemistry Group
Earth Sciences Building
2500 University Drive
Calgary, Alberta, Canada T2M 2N0
mailto: n.vandewetering@icloud.com

New Application for Associate Member

Dr Łukasz Smędowski, Poland

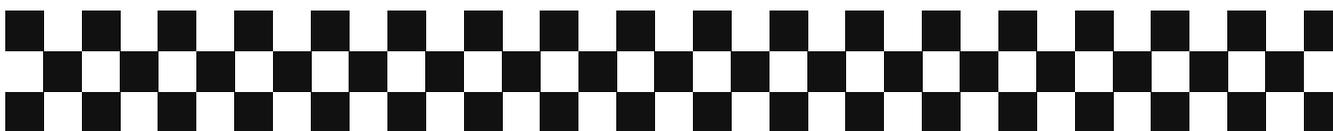
Łukasz completed his Ph.D. in Geology at the University of Silesia and started his work at the Institute for Chemical Processing of Coal in Zabrze, where he is actually leading the Laboratory of Solid Fuels and Activated Carbon. His main interest focus on solid fuels analysis, prediction of coke quality, microscopic and spectroscopic methods for the structural analysis of coal, environmental protection and legal issues related to the use of solid fuels. Łukasz is author of 24 research papers in prestigious research journals and supervises the work of a number of students.



Answers to Know your coal Petrologist

#01 Dr Isabel Suárez-Ruiz looking very gracious.

#02 Sandra Rodrigues is the lucky lady!



Introduced & accepted as Associate Members at the Potsdam meeting



Dr Doris Gross (A1, 2)
Austria
Chair of Petroleum Geology,
Montanuniversitaet Leoben,
Peter-Tunner Strasse 5
8700 Leoben, Austria
Ph +4338424026357
mailto: doris.gross@unileoben.ac.at
Web page: [http://
erdoelgeologie.unileoben.ac.at/](http://erdoelgeologie.unileoben.ac.at/)

Dr Gross is an Associate Professor. She obtained her MSc in Applied Geosciences, and her PhD in 2009 from the Montanuniversitaet Leoben. Dr Gross has participated in projects related to coal seams in Austria, China, Japan, and in oil shales. Her research interests lie in coal petrography, petroleum geology, source rock analysis, formation of habitat gas, porespace evolution of reservoir rocks. She is an author on 19 papers.



Stefanie Henne (A1, 2, 3)
Germany
LAOP Strasse der
Freundschaft 92
02991 Lauta
Ph +49-035722-930637
mailto: [s.henne@laop-
consult.de](mailto:s.henne@laop-consult.de)

Stefanie has a diploma thesis from the GFZ Potsdam, and a diploma in mapping from the MIBRAG mbH, and a diploma in Geology / Paleontology from the TU Bergakademie Freiberg.. She has worked at LAOP in Lauta as a geologist since 2012, where she is involved in projects concerning micropetrography, microscopy, evaluation of lignite, sand, peats, and wet ashes, amongst



Richárd Orbán (A1, 2), Hungary
MOL Plc. E&P Laboratory
Budapest, Hungary
Ph +36-30-5652126
mailto: rorban@mol.hu

Richard has an MSc. In Geology from the Eotvos Lorand University Budapest. He is currently a PhD candidate at the same university. Richard has been working at the Hungarian Oil Company, MOL Ltd, dealing with organic petrology, and has worked in various exploration areas.



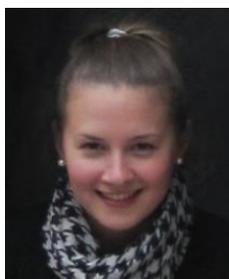
Mrs Henny Gerschel (A1, 2, 3)
Germany
GEOmontan GmbH Freiberg
Am St. Niclas Scacht 13, D-
09599 Freiberg, Germany
Ph +49 3731 781329
mailto: henny@1hamann.de

Henny has a Masters degree from TU Bergakademie Freiberg, and is currently registered for a PhD degree at the same university, looking at the Helmstedt mining district. She is also working as a project geologist at GEOmontan Gesellschaft in Freiberg, researching the pyropissite mining district of Zeitz-Weißenfels, and modelling the lignite seams of Lusatia from logs. Henny is an author on many publications.



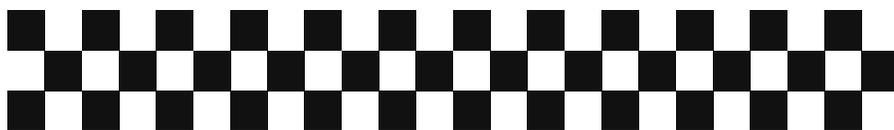
Mr Richard Pearson (A3)
Canada
Pearson Coal Petrography
740 Discovery Street, Unit 1,
Victoria, BC, Canada, V8T 1H2
Ph 7788-433-2982
mailto: rpearson@coalpetrography.com

Richard works in Canada, USA, and Australia on coking coals.



Dr Małgorzata Uglik (A1, 2),
Poland
University of Wrocław
Ul. Cybulskiego 30
50-205 Wrocław
Ph +48 509-323-971
mailto: malgorzata.uglik@gmail.com

Dr Uglik has a PhD from the University of Wrocław, Poland, supervised by Professor Nowak. In 2015 she was awarded the ICCP Student travel grant to attend the 2015 organic petrology training course and the ICCP Meeting in Potsdam. Dr Uglik has some work experience from Vattenfall Europe Mining AG, Shwarze Pumpe in Germany, and Geophysik GGD mbH in Leipzig. She has several publications and her research interest lies in petrology of bituminous coals, inertinites, charcoal and wildfire ecology, coal facies and palaeoenvironmental studies.



**DEADLINE FOR
CONTRIBUTIONS
TO THE NEXT
ICCP NEWS:
15 Feb 2016**

9th ICCP Course in Organic Petrology

Held at GeoLab,
Helmholtz Centre Potsdam
German Research Centre for
Geosciences - GFZ
Potsdam, Germany

June 6-10, 2016

For students wishing to attend the ICCP Training Course, but who require financial assistance, please refer to the ICCP website for information pertaining to the ICCP Student Travel Grant; the application process will be open soon.

The International Committee for Coal and Organic Petrology (ICCP), in conjunction with Geolab, DGG (Deutsche Gesellschaft für Geowissenschaften), the Teichmüller Foundation and GFZ (the German Research Centre for Geosciences), is pleased to announce a training course in organic petrology to be held in Potsdam in June 2016.

The course is centred on the petrology of coals with a particular emphasis on extending familiarity with a wider range of coals and dispersed organic matter. Practical applications and technological importance will be stressed.

While a basic geological understanding will be assumed, the course is designed for those with little or no knowledge of coal. It is therefore suitable for undergraduate or post graduate students as well as established professionals who require a more thorough understanding of petrological aspects of coals.

ICCP Course on Organic Petrology June 2016

General Outline

Theory:

Coal genesis (geology and geochemistry), Coal Composition and type: Lithotypes, Macerals and Microlithotypes

Coal rank and rank parameters.

Petrographic analyses: fundamentals of the optical microscope and sample preparation, maceral and microlithotype analyses, vitrinite reflectance analysis and the

use of fluorescence.

Basic factors controlling quality and technological behaviour of coal. Industrial applications of organic petrology.

Practical:

Practical session on petrographic techniques: The use of the reflected light microscope, identification of coal components, point-counting analysis, reflectance measurements, fluorescence analysis (all by pre scanned analyses on a screen with the group) on coals of different type and rank and grade. Preparation of participants for ICCP accreditation programs on coal analysis. It would be possible to examine your own coal samples.

Presenters:

Dr. Walter Pickel & Dr. Angeles G. Borrego

Cost

Company / Professional	1300 €
Government / non-profit	700 €
Student	250 €

Cost for the course excludes travel, accommodation and meals except where stated. Costs include course notes, lunches and coffee, and course dinner.

Course language is English

Space is limited and will be on a first come basis. A detailed course outline will become available soon at www.iccop.org.

Further information is available from: Peter Crosdale
mailto: peter.crosdale@energyrc.com.au

2nd circular of the JOINT MEETING TSOP-AASP-ICCP

September 18 – 23, 2016 Houston,



The Society for Organic Petrology (TSOP), The Palynological Society (AASP), and the International Commission for Coal and Organic Petrology (ICCP) invite you to attend.

We are pleased to present the second circular regarding this first historic joint meeting of these three related geological, geochemical and biological scientific societies. The purpose of this joint meeting is to bring together a diverse group of scientists to discuss the close relationships between organic petrology and palynology, to foster thoughtful discussion and address issues that may be of benefit to furthering the respective sciences. Key themes to be addressed during joint activities include source rock/source-rock reservoir resource assessment, microscope methods of characterizing microporosity, and palynofacies/kerogen.

The venue for this meeting will be the historic Magnolia Hotel in downtown Houston. The Magnolia was built in 1926 as the former Post-Dispatch Building. It was re-purposed in 2003 as The Magnolia Hotel, and further underwent a significant upgrade in 2009. The hotel is centrally located in downtown within walking distance of excellent restaurants and pubs. Over the past several years downtown Houston has undergone a major revitalization with many new office buildings, exciting arts and entertainment venues, and several world-class restaurants. We believe the downtown will provide exciting possibilities for every need and want. All attendees are strongly encouraged to stay at the host hotel. Our current negotiated

room rate at The Magnolia hotel is US\$179/night (single occupancy). Double- and triple- occupancy will be priced accordingly. This room-rate includes a complimentary hot breakfast, a late afternoon happy hour (complimentary beer/wine), a complimentary bedtime cookie buffet, and free internet. Alternative nearby hotels will be suggested,

Houston is a significant transportation hub and the international airport (IAH) is serviced by all major airlines from Europe and Asia. Both airports (IAH and HOU) are serviced by the major US-based airlines. Transportation to and from the hotel area from both airports is available via taxi, shuttle, and MetroBus. Further information on fares and routes from the two airports will be distributed in later circulars.

A number of integrated Symposia and Theme Sessions have been proposed. At the moment these include:

- Microscope methodologies in recognizing and characterizing organic microporosity** (Joint TSOP/ICCP Theme Session: Monday PM)
 - Palynofacies and Kerogen** (Joint TSOP/ICCP/AASP Theme Session: Tuesday PM)
 - Multi-modal Characterization of Source Rocks, including Source-Rock Reservoirs** (Joint TSOP/ICCP/AASP Symposium: Wednesday All-Day)
 - Palynofloral Contributions to Source Rocks** (AASP/TSOP Theme Session: Thursday AM)
- Additional AASP-sponsored Theme Sessions may include an **Alfred Traverse Symposium, Palynostratigraphy and Global Biozonations, Forensic Palynology, and Wetlands Through Time**

All interested scientists are strongly encouraged to contact us and propose to submit their abstract(s) for one or more of these Themes Sessions and the all-day Wednesday Symposium. Keynote and Invited Speakers are currently being contacted for their participation in the respective sessions. Exact details regarding these sessions will be forthcoming in the next respective Newsletters, and will appear on respective websites very soon.

Two fieldtrips are currently being finalized that will be of interest to everyone. The Pre-Meeting Fieldtrip will be a 2+ day fieldtrip departing on the afternoon of the Friday before the meeting, and will visit Eagle Ford Formation outcrops in west Texas. The Eagle Ford Formation is a world-class source-rock reservoir resource in the subsurface of south Texas, and the accompanying strata have been studied extensively in stratigraphic, geochemical and biostratigraphic studies. This trip will be organized by Core Laboratories (Houston). It will leave in the early afternoon on Friday, and return by early evening on Sunday. The Post-Meeting Fieldtrip will be either a one-day, or two-day trip to Cretaceous

ICCP Publications & Training Material

ICCP Publications are available for 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.

ICCP HANDBOOKS

- * *International Handbook of Coal Petrography 2nd Edition* (1963) (Eng.) CD Rom PC & Mac compatible with Adobe Acrobat Reader Ver 4. or above.
- * ICCP/TSOP Member 20€ (including postage) ; Non-member 40€ (including postage)
- * *International Handbook of Coal Petrography , supplement to the 2nd Edition* (1985) (Eng.) 24€
- * *International Handbook of Coal Petrography , 2nd supplement to the 2nd Edition* (1986) (Eng.) 8€
- * *International Handbook of Coal Petrography , 3rd supplement to the 2nd Edition* (1993 (Eng.) 16€

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 & Exel sheet of results from round robin exercises

Cost: samples & exel sheet 30€ incl. postage (CCP/TSOP members); 90€ (non members)

ICCP Services

Accreditation Programs

Maceral Group Analyses of Coals (SCAP)

Convenor: Dr Kimon Christanis

Department of Geology

University of Patras

Ph +30-2610-99 7568

mailto: christan@upatras.gr

Vitrinite Reflectance of Coals (SCAP)

Convenor: Dr Kimon Christanis

mailto: christan@upatras.gr

Coal Blend Analysis (CBAP)

Convenor: Dr Isabel Suárez-Ruiz

Instituto Nacional del Carbon—CSIC

Oviedo, Spain

Ph +34-98-5119090

mailto: isruiz@incar.csic.es

Vitrinite Reflectance of Dispersed Organic Matter (DOM)

Convenor: Dr Ángeles Gómez Borrego

ICCP President

Instituto Nacional del Carbon—CSIC

Oviedo, Spain

Ph +34-98-5119090

mailto: angeles@incar.csic.es

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:

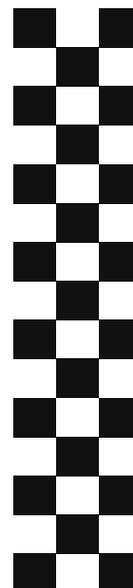
- Dr Walter Pickel , ICCP General Secretary
Director Organic Petrology, Coal and Organic Petrology Services Pty Ltd
Sans Souci, NWS, Australia
Ph +61-2-9524 0403
mailto: walter.pickel@organicpetrology.com

The standard is also available through

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

And

- Gerd u. Gisela Bieg
Mikroskopische Untersuchungen
Haltern am See, Germany
Ph +49-2364-6285
mailto: mikro-un@t-online.de





through Eocene strata of east-central Texas. These strata are equivalent to the important Wilcox Formation that forms major reservoirs in the subsurface of the deepwater Gulf of Mexico. Details surrounding both of these fieldtrips will appear in the next issue of respective Newsletters, and on the respective websites very soon.

On the Saturday prior to the Meeting, a Short Course is being proposed: "Integrated reservoir evaluation of source-rock reservoir resources utilizing organic petrography, geochemistry and micropaleontology". Instructors are being approached and the course curriculum is currently being discussed. Final details of the class will be forthcoming in future meeting circulars and on the websites.

Of significance is the Monday evening Icebreaker which will take place on the rooftop patio of The Magnolia Hotel (weather permitting). The patio offers a great view of the Houston downtown skyline and sunset. On the Tuesday late afternoon, a Happy Hour will accompany an opportunity to view the posters that will be part of the technical aspect of the meeting. Drinks and finger food will be served and there will be sufficient opportunity to chat with authors about their poster displays. Finally, a dinner is being planned for the Wednesday Evening at a nearby locality in Discovery Green near the Houston Convention Center, just a short walk from the Hotel. The hope is to have an outdoor venue to view the Houston skyline and for attendees to discuss science and renew friendships in a relaxed atmosphere. Details of this dinner are still being determined. In addition to these events, attendees will have sufficient opportunity to enjoy the Houston downtown with its numerous world-class restaurants, and abundant drinking establishments.

Along with the technical and social activities, the respective Societies will have their necessary Board of Directors meetings, and Business Lunches. These will be scheduled accordingly throughout the week as prescribed by the Societies.

The local Organizing Committee Thomas Demchuk (Consultant), Jen O'Keefe (Morehead State U.), Thomas Gentzis (Core Laboratories) and Joe Curiale (Chevron). Over the next few months we will do our best to keep the societies and membership informed of new events and deadlines. **We look forward to a great joint meeting in September of 2016.**

Congratulations to the Thiessen Awardees

REINHARDT THIESSEN AWARD

This is the highest award offered by the ICCP, recognizing significant achievements and outstanding contributions in the fields of coal and organic petrology. In 2015, two long standing ICCP members were awarded the highly sought after Reinhardt Thiessen Award, namely Professor Zuleika Carretta da Silva, and Dr Walter Pickel.



LAUDATION FOR ZULEIKA CARRETTA CORREA DA SILVA

Zuleika Carretta Correa da Silva was born in Porto Alegre, Brazil. She became part of the first class of students in a newly formed course in Geology at the Federal University of Rio Grande do Sul (UFRGS) and received her degree in 1962. Her first job was as a field geologist for two years. In 1968 she returned to academic study, completing her master's thesis in geology in 1970. Studies leading to her doctoral dissertation on the stratigraphy of the Paraná Basin began in 1974, concluding in 1977. Following her doctorate she received a scholarship from the Alexander von Humboldt Foundation to undertake post-doctoral study in organic geochemistry, geology and petrography of coal and dispersed organic matter. During the course of this work undertaken at Rheinisch-Westfälische Technische Hochschule (RWTH) in Aachen, Germany her tutors were Drs H. Hollerbach, H.W. Hagemann and D. Welte.

In the 1980's Correa da Silva extended her knowledge of organic geochemistry at the University of Glasgow, Scotland in collaboration with Dr C. Cornford and in the 1990's, once again, at RWTH.

During her master's studies, she began her long career as a Professor at the Geology Course and later within the Institute of Geosciences at UFRGS. She was a pioneer in academic studies in coal geology and coal petrography in Brazil. Thanks to the coordination of various projects in collaboration with colleagues in paleontology and stratigraphy, she was able to inaugurate the first laboratory in organic petrography at UFRGS in the late 1970's.

Correa da Silva guided dozens of students in this area of expertise at both the master's and doctoral level. In addition to her academic activities she participated in associations with geologists, chemists and geochemists and carried out fundamental studies on the characteristics of South American Gondwana coals. She organized various meetings in coal geology, coal petrology, Gondwana coals and organic geochemistry in the national and international ambits. She acted as Editor of *Revista Latino-Americano de Geoquímica Orgânica*, was the editor of various proceedings, volumes of meetings, congresses and symposia and the author or co-author of numerous published book chapters and papers in the scientific literature.

Dr Correa da Silva was a member of the boards of directors of various associations including the Sociedade Brasileira de Geologia, Associação Latino-Americana de Geoquímica Orgânica (ALAGO), and the ICCP.

In the early 1980's Zuleika joined the ICCP as an associate



member, later becoming a full member. She acted as General Secretary for two terms from 1992 to 2000. She was Chair of the Gondwana Working Group from 1998 to 1992, organized the 43rd ICCP Meeting in Porto Alegre in 1991 and received the title of Honorary Member in 2009.

From 1987 to 1990 she was Coordinator of the Mining and Energy Bureau of RGS and the Executive Secretary of the Mining State Council of Brazil. She played an important role as consultant to various coal and petroleum companies.

Her activities at the international level resulted in a network of collaboration with educational institutions in Europe, particularly in Germany and Portugal. She was the recipient of the *Irajá Damiani Pinto Medal* of UFRGS for its Golden Jubilee in 2007. In 2000 she was awarded a silver plate in recognition of her contribution to ALAGO.

In 2007 Correa da Silva joined the Center of Excellence in Research and Innovation in Petroleum, Mineral Resources and Carbon Storage at Pontifical Catholic University of Rio Grande do Sul as a researcher and project advisor. In 2010 she organized the 1st Brazilian Symposium on Non-Conventional Generation of Energy from Coal and Gas Hydrates and the 2nd Workshop on Regional Production of Clean Fuels from Coal in Rio Grande do Sul. During the period 2008-2011 she was active in the pioneering project in Latin America for the geological storage of carbon dioxide in coal seams of the Paraná Basin sponsored by PETROBRAS.

Zuleika Correa da Silva played a fundamental and pioneering role in the dissemination of knowledge in our science through the establishment of the first coal petrographic laboratory in academia in Brazil. She was extremely active in promoting coal and organic petrology throughout Latin America and as a member of the boards of multiple geological and geochemical associations. She was deeply involved in new lines of research with several research groups until 2011 **and today is considered one of the most important geoscientists of her country.**



The award consists of a bronze medal and a certificate. The award committee consists of the five most recent medalists who are available. Awards are made from time to time but applications are called for every 2 years

LAUDATION FOR WALTER M. PICKEL

Walter M. Pickel was born in Germany in 1957. After graduating in geology at the RWTH Aachen University, Dr Pickel undertook his PhD studies at the Rheinisch Westfaelische Hochschule (RWTH) Aachen, Germany, an institution whose high reputation in research and the teaching of coal science is linked to the names of Erich Stach, Marlies Teichmüller and Monika Wolf. Following his doctorate in 1991, Walter continued to be associated with the RWTH until 1998 when he moved to Australia to take up employment as a Senior Research Scientist at CSIRO Petroleum in Sydney.

In 2003, Walter Pickel joined Harold Read & Associates in Sydney, and in 2004, he became co-founder and an Executive Director of Coal & Organic Petrology Services Pty Ltd, a company that provides analytical services to the Australian coal industry. In 2008 he assumed the position of Managing Director of the same company. In spite of his busy schedule in a highly successful analytical service company to the Australian coal industry, he has been able to maintain a high level of engagement to foster the interest of our profession at the local level and in the wider international community. Apart from teaching assignments at the universities of Aachen and Cologne and before migrating to Australia, Walter Pickel has provided graduate courses and workshops in coal geology and petrology in Indonesia, Australia, India and Chile. At the latter, he also was appointed Visiting Professor at the Instituto de Geologia Economica Aplicada of the University of Concepcion, while the courses in Potsdam, Germany and Brisbane, Australia in 2012-13, were given on behalf of the ICCP jointly with Claus F.K. Diessel. At Aachen and Cologne Dr Pickel supervised or co-supervised nine masters and several student project theses.

Dr Pickel is a member of numerous national and international scientific bodies (including the Australian Institute of Mining and Metallurgy, the Latin American Organization of Organic

Geochemistry and The Society for Organic Petrology), serving as Chair of the Australian Coal Petrology Group since 2007 and of the National Committee for Coal and Mining Geology of Standards Australia since 2014 and participating in two working groups of the International Standards Organization.

Walter Pickel is author and/or co-author of a significant number of well-received reviewed papers, abstracts, book reviews and reports. He has also co-authored since 2009 the very detailed and comprehensive manuals that accompany the above-mentioned workshops and one-week-long coal courses provided for graduate students and professional geologists.

Walter joined the ICCP as an Associate Member in 1990, becoming a Full Member in 1993. He served as Secretary of Commission 1 from 1994 to 2000 when he became Chairman, serving in that capacity until 2008. Since 1991 he has been a dynamic Convener of the Standardization Working Group and a member of the editorial group for the revision of maceral nomenclature. In the course of this work he has organized ring analyses, and in general has worked toward improving the professionalism of our membership. His untiring support of the interests of the ICCP has greatly enhanced the status of our committee in the public life of Australia.

Over the years, Dr Pickel has demonstrated an extremely high quality of work as well as displaying integrity in his personal conduct. Considering his strong academic background, solid professionalism and substantial contribution to the work of the ICCP, Walter M. Pickel has been selected to be awarded the Reinhardt Thiessen Medal.



**Maybe this is why Walter deserves the award—
ALWAYS WORKING!**

Response to laudation by Alan Davis: (by Walter Pickel)

I want to thank the ICCP, its council, the award committee and the anonymous person, who nominated me, for honouring me with the Reinhardt Thiessen Medal. I am especially grateful for Alan Davis' laudation. I feel immensely honoured & a bit embarrassed considering the list of previous recipients & the eminence of this group. The award will be an inspiration for me to increase my effort to contribute to the field of organic petrology rather than to be bogged down by the day to day business.

This award naturally does not only honour the recipient but all the lucky circumstances that brought him into this position and most importantly the people, who helped along the way. As a geology student in Aachen I happened to somewhat accidentally end up at the 'Lehrstuhl fuer Geologie, Geochemie und Lagerstätten des Erdöls und der Kohle' and there I was, with Monika Wolf as the head of the department, Hans Hagemann, Alfred Hollerbach the pleasantly sarcastic organic geochemist and Dietrich Welte as what in Australia we would call a FIFO (fly in, fly out) professor. With these teachers it would have been hard not to learn at least some things about the organic 'bits' of geology and geochemistry and not to be fascinated would have been merely impossible.

I was fortunate to be offered a position in the same department after my graduation in which I was happy to work for another 11 years. There were many other people involved in the workings of this department, the ICCP's two recent presidents, one as a Ph.D. student, one as a post-doc. Zuleika Caretta Correa da Silva and Marco Ercegovac were frequent guests in the department. Marlies Teichmueller was only 80 km away, always open for a discussion, as were all the very active petrologists in the Ruhr area. To all of them, all the staff and all the colleagues and students that passed through this department at the time I am deeply grateful for everything I learned from them and the amazing time I had with them. This award is theirs as much as mine.

After graduating, I was introduced to the ICCP, to which back then one was formally nominated

by a senior member. And there they were, all the 'Gods', whose papers and books one had read as a student and the 'Gods' would happily take the time to answer a young newcomer's questions patiently and extensively and discuss any matter he would come up with. I learned quickly that the organic petrology community in the ICCP was something very special (and still is). I was lucky that I could contribute to the ICCP, mainly through my work with Commission I. It feels a bit like double dipping now, to firstly have been and being a beneficiary of this organization in many ways and now, secondly, being awarded its highest award. Thank you!

This response would not be complete without expressing my gratitude to those, who welcomed me warmly when I arrived in Australia, more or less unprepared for the differences to my previous life. Alan Cook gave me asylum for a couple of days upon my arrival (and those who knew him will not be surprised that we spent most of the time in front of a microscope). Claus Diessel and his wife Louise made me feel home in this strange country and so did many others. Thank you to them all.

In summary, whatever I did to deserve the honor of the Reinhardt Thiessen Medal would not have been possible without a large number of friends & colleagues in the amazing field of organic petrology. **If I can help to make organic petrology as fascinating to newcomers now as it was presented to me & help to maintain and progress its relevance, I will happily do my best.**

congratulations

Prof Zuleika's daughter... responded so appreciatively on behalf of her mother



TSOP 32nd Annual Meeting Indonesia, 20 - 27th Sept 2015

Contribution by: Tim A. Moore, Cipher Consulting Ltd., Brisbane, Australia



Technical session of the 32nd Annual TSOP Meeting

This year's annual meeting of The Society for Organic Petrology (TSOP) was held in Yogyakarta, Indonesia. Yogyakarta is located on the island of Java about 450 km to the east of Jakarta. The meeting was hosted by Gadjah Mada University who did an excellent job in all the logistics and made us all feel at home. The Chairman of the Organising Committee, Prof. D. Hendra Amijaya, had assembled an excellent team and made my job as Convenor, extremely easy.

We had 88 participants, with 37 oral talks and 32 posters, with a very good turn out of students – 22 in all, 11 from Indonesia and 11 from overseas. The Best Student oral presentation went to Rita Susilawati (University of Queensland & Geological Agency of Indonesia). There was a tie for Best Student Poster with N. Qadaryati and W. Novianti (both Gadjah Mada University) winning. There were four Keynote Speakers: Prof Eddy Subroto (Institut Teknologi Bandung); Dr Bukin Daulay (Ministry of Energy and Mineral Resources); Mike Friederich (Independent Consultant); Dr Romeo Flores (formerly USGS, now retired).

There were several events in addition to the technical program. On the 20th of September we had over 40 guests for a pre-conference field trip to Borobudur, a ~1200 year old Hindu temple (the biggest in the Southern Hemisphere), followed by a visit to a family owned batik shop and 'factory'.

On the 21st of September we had two concurrent workshops: the first "Fundamentals of Organic Petrology" was taught by Dr Walter Pickel (Organic Petrology, Australia) and the second "Assessment of Unconventional Hydrocarbon Plays" was presented by John Hattner and Dan Paul Smith (both from Netherland Sewell & Associates Inc., Houston, Texas). Both workshops were well attended with 24 participants for the former and 12 for the latter workshop.

The conference dinner was held at a venue that overlooks the Hindu Prambanan Temple – another very old structure dating back over 1300 years. After dinner, we were entertained by the Ramayana Ballet; the ballet was conducted on a spectacular open air stage with the Prambanan Temple in the background.



At Borobudur Temple, Java, Indonesia. Left to Right: Judith Potter, Rudi Schwarb and Sion Pretorius.

After the technical sessions, the post-conference field trip left with 22 participants for East Kalimantan (Borneo) 24 – 28 Sept.

The field trip leaders were: Prof. D. Hendra Amijaya, Dr Andang Bachtiar, Dr Tim A. Moore and Prof. Chairul Nas. Day 1 was spent looking at Miocene age outcrops as we drove north from Balikpapan to Samarinda. On the second day, we travelled by boat down the Mahakam River and into



Three of the field trip leaders at a coal mine in Kalimantan; left to right: Tim Moore, Hendra Amijaya and Chairul Nas.



the delta, visiting various environments including a distributary mouth bar a few kilometres out into the Makassar Strait. Day 3 took us eastward, to the renowned Kutai Lakes area, where peats are accumulating adjacent to freshwater lakes. Day 4 was spent, first, at a coal mine revisiting ancient equivalents of what we saw the previous two days in the modern environment; then on the drive back south to Balikpapan we also visited an Orang-utan sanctuary.

The Abstracts & Programme as well as the post conference field trip guide are available to members on the TSOP website <https://www.tsop.com>.

Maria Mastalerz and Thomas Gentzis enjoy the meal at the conference dinner.



SOCIAL ICCP

2015 Ice-breaker & conference dinner.



There are many advantages of being an ICCP member: where else can you find a collection of such elegant petrographers?

UPCOMING EVENTS

18th International Conference & Exhibition on Liquefied Natural Gas:

Perth, Australia; **11—15 April 2016**; <http://www.lng18.org>

IEA 1st High Efficiency low emissions coal-fired plant workshop,

Tokyo, Japan, **23—23 May 2016**. <http://hele.coalconferences.org/ibis/HELE/home>

ICCP Course, June 2016, Potsdam, Germany.

<http://www.iccop.org>; mailto: peter.crosdale@energyrc.com.au

33rd International Pittsburgh Coal Conference, Cape Town, South Africa,

8—12 August 2016. <http://www.pcc.com>. Abstract by 1 March 2016 mailto: ipcc@pitt.edu

35th International Geological Congress, Cape Town, South Africa, 27

August—2 September 2016. : <http://www.35igc.org/>. Abstracts end Jan.

ICCP-TCOP-AAPG Joint Conference Houston, USA., 18-23 September

2016: <http://www.iccop.org>; <http://www.tsop.org> (NB Please book accommodation a.s.a.p.). Refer to circular in Newsletter

SEPM-AAPG Research Conference Mudstone Diagenesis, Sante Fe,

New Mexico, **16-19 October 2016**: mailto: wayne.camp@anadarko.com

GHGT-13, Lausanne, Switzerland, 14—18 Nov 2016. <http://www.ghgt.info>

DEADLINE FOR CONTRIBUTIONS TO THE NEXT ICCP NEWS: 15 Feb 2016

Membership Enquiries

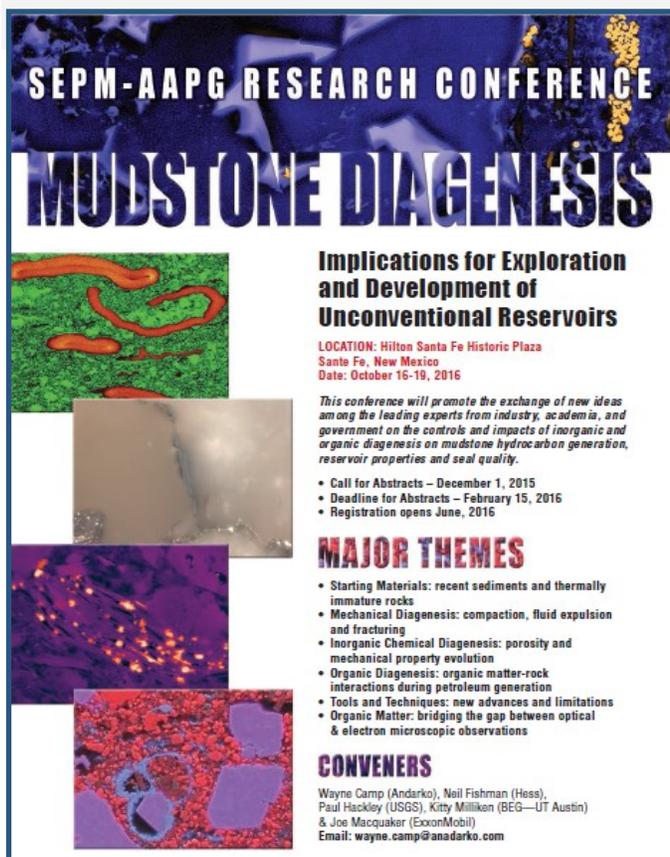
General Secretary mail-to: walter.pickel@organicpetrology.com

Or visit the website: <http://www.iccop.org>

ICCP NEWS Enquiries

Any submissions, contributions, letters, comments, news items, and so on, most welcomed

Editor: **Nikki Wagner**
mailto: nwagner@uj.ac.za



SEPM-AAPG RESEARCH CONFERENCE
MUDSTONE DIAGENESIS

Implications for Exploration and Development of Unconventional Reservoirs

LOCATION: Hilton Santa Fe Historic Plaza
Sante Fe, New Mexico
Date: October 16-19, 2016

This conference will promote the exchange of new ideas among the leading experts from industry, academia, and government on the controls and impacts of inorganic and organic diagenesis on mudstone hydrocarbon generation, reservoir properties and seal quality.

- Call for Abstracts – December 1, 2015
- Deadline for Abstracts – February 15, 2016
- Registration opens June, 2016

MAJOR THEMES

- Starting Materials: recent sediments and thermally immature rocks
- Mechanical Diagenesis: compaction, fluid expulsion and fracturing
- Inorganic Chemical Diagenesis: porosity and mechanical property evolution
- Organic Diagenesis: organic matter-rock interactions during petroleum generation
- Tools and Techniques: new advances and limitations
- Organic Matter: bridging the gap between optical & electron microscopic observations

CONVENERS

Wayne Camp (Andarko), Neil Fishman (Hess), Paul Hackley (USGS), Kitty Milliken (BEG—UT Austin) & Joe Macquaker (ExxonMobil)
Email: wayne.camp@anadarko.com



Venue PCC & ICG

Venue ICCP-TSOP-AAPG

