

ICCP NEWS



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ICCP MEETINGS BUCHAREST, ROMANIA, 1999 (51st) AND 2017 (69th)



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INSTITUTIONAL MEMBER



ICCP WEBSITE

<https://www.iccop.org>

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

**Deadline for next ICCP
Newsletter:
20 February 2018**

If anyone can provide all the names of the 1999 ICCP Bucharest delegates, please do send them to the Editor. Even better, if anyone can list those delegates who attended both the 1999 and 2017 Bucharest ICCP Meetings, I will personally buy them a beer in Brisbane

EDITORS COLUMN

The 2017 ICCP Meeting hosted by Georgeta in Bucharest was a great success, with many important working group presentations and discussions. Successful progress and outputs of the working groups provide the real value addition of the ICCP to the organic petrology community and industry at large, and keeps the Committee relevant in today's rapidly evolving technical world. A key message I picked up from many presentations, especially those dealing with round robin exercises and the accreditation programs, is that people do NOT read the instructions correctly (myself included!). This causes numerous problems for the respective conveners, and may result in the data not be usable. Many reasons could be provided for the oversight of not reading, or incorrectly understanding, the instructions, but all members are requested to please take extra caution in this regard.

The Round Table Discussion during the Symposium was, on the one hand, fairly depressing, and on the other hand very informative. Key messages include the fact that organic petrology needs to stay relevant; the situation in Europe is different from that of the rest of the world, especially the developing countries; the number of petrologists globally is still growing (or at least remaining consistent); the ICCP training courses are vital; fossil fuel utilization is not going to disappear (primary energy, steel, cement, industrial boilers, gasification, etc.). It remains our responsibility to promote the science in many different applications. The large number of posters, including the many student posters, provided an overview of the diversity of applications of organic petrology in today's world.

As usual, this edition of the ICCP News is long, capturing all the minutes of the Plenary Sessions, Council Meetings, and Commissions. For those who were able to attend the meeting, it perhaps provides a reminder of the successful Meeting and of tasks to complete. For those who were not fortunate to attend, I hope the Newsletter successfully captures the essence of the Meeting and encourages you to participate in the working groups, and hopefully in the Brisbane Meeting next September. As usual, please do forward all comments, short articles, suggestions, classifieds, conference feedback, etc. to me. May I wish you all the very best for the 2017 seasonal festivities, and I hope that 2018 is a successful and happy year for all.

Regards, Nikki

**KNOW YOUR COAL
PETROLOGIST**
Answer on page 7



PRESIDENTS COLUMN

The 69th ICCP Meeting took place this year in Bucharest. It was the second time we came to Bucharest and we enjoyed the venue and the facilities of the Romanian Academy Library. I would like to thank the organizers: Georgeta Predeanu leading the team supported by Mihai E. Popa, Maria Doina Ghiran, Romina Dorina Mihalache, Jolanta Kus and Izabela Maris who took care of every aspect related with the logistic, the scientific program of the symposium and the fieldtrip. I would like to thank the conveners and participants of the working groups for their every effort. Remember all ICCP members, even if you are not able to attend the meeting you can participate in the activities of the organization through the working groups. In my experience, you learn a lot doing that and you get exchange of results between different laboratories and analysts, which is particularly useful for the beginners. Therefore I would like to encourage the new members to actively participate in the working groups.

You will find the minutes of the meeting in the following pages of this newsletter. An accreditation round has been finalized and the next one will be starting next year, some novelty will be incorporated in the acceptable values for the DOMVR program, which will be explained in detail in the Newsletter

and in the webpage. Further progress has occurred in the publication of various chapters of the Handbook. The training activities have successfully continued and annual courses will be scheduled in Potsdam. Changes in the Canadian law have significantly raised the costs associated with registration and it appears to be unaffordable at this stage. Following the mandate of the General Assembly, Council will search for additional options during the year. We will have elections for Vice-President during the year, with two candidates João Graciano Mendonça Filho and Maria Hamor Vidó having been nominated; I would like to encourage all the Full Members to participate in the elections when you receive the information from the General Secretary.

We regret to announce the sad loses of two of our ICCP members since the Meeting in Bucharest. At the beginning of October, Geoff H. Taylor, a founding member of the ICCP who took part in the first Nomenclature Sub-commission and has being continuously engaged until the last revision, left us. (Ed: Geoff Taylor was the 1997 Reinhardt Thiessen Medal Awardee; refer to Newsletter 17 available on the website). Later in November, Chris Cornford, active in various working groups of the ICCP, also passed on. We send our condolences to their families and will keep them alive in our memories.

We are approaching the end of the year and I would like to take this opportunity to greet you for the season and wish you a venturous 2018.

Angeles G. Borrego



Thank you Angeles and João for presenting the ICCP Organic Petrology Training Course in 2017.



Sweet offerings during the ICCP Meeting



69th ICCP Meeting Bucharest, Romania, 2017 3rd - 9th September GENERAL MINUTES

The 69th meeting of the ICCP took place in Bucharest (Romania) from 3rd to 9th September 2017. The main venue of the meeting was the Amphitheater "I.H. Rădulescu" in the Romanian Academy Library, in the same building where we also enjoyed the ice-breaker party, the daily lunches, and the poster exhibition and microscopy session. The opening ceremony took place in the impressive historical Aula of the Romanian Academy Library that celebrated its 150 anniversary this year. The Romanian Academy Library buildings are all located in an attractive and quiet area of the town, surrounded by a green area.

The meeting was hosted by the University *Politehnica* of Bucharest (UPB), the University of Bucharest (UB), and the Romanian Academy (RA), with the sponsorship of the Ministry of Research and Innovation of Romania, Olympus, Zeiss, Nitech, and Analytik Jena, whose contribution made possible the celebration of this very successful meeting. Georgeta Predeanu lead the Organizing Committee, with the support of Mihai E. Popa and Izabela Maris (Faculty of Geology and Geophysics), Maria Doina Ghiran (OMV-Petrom SA), Romina Dorina Mihalache (Romanian Academy), Alina Bugean (Trima) and Jolanta Kus (BGR, Germany). They also were responsible for a very exciting field excursion. The Honorary Presidents of the Conference were the Academician Bogdan Simionescu and the Emeritus Prof. Cornelia Panaitescu, a long standing ICCP member. We are grateful to all of them for every effort.

The first Council Meeting took place on Sunday at 13.30 and was followed by the ice-breaker party. The Opening Ceremony on Monday morning commenced with words of welcome from Bogdan C. Simionescu, Vice-President of the Romanian Academy, who also briefly described the challenges regarding natural resources that Romania has to face. The presentation was followed by a description of the Romanian coal measures and resources (Mihai E. Popa), an overview of the 160 years of the oil industry in Romania (Vasile D. Şindilar), and of the Romanian energy sector (Iulian Iancu). The ICCP President (Angeles G. Borrego) thanked the speakers for the very interesting presentations and the organizers for giving the ICCP the chance to return to Romania and highlighted the relevant contribution of Romanian scientists to the ICCP.

The General Assembly opening session started on Monday at 12.00 and was preceded by the welcome words of the President of the Romanian Academy Library who highlighted the mission of the Library in preserving the Romanian culture and heritage and some of the most valuable treasures of the Library. The schedule for the General assembly was as follows:

1. Apologies for Non-attendance
2. Minutes of Previous Meeting
3. Arrangements for Bucharest 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 & Revision of the statutes
12. Short Report from Commission Meetings
13. Short Report from Council Meetings
14. Feed-back from members and any other business
15. Come to Brisbane in 2018
16. Thanks to the Organizing Committee

Topics 1-3 and 7-10 were covered in the opening session of the General Assembly, topics 4-6 were briefly mentioned in the opening session and continued in the closing session, and topics 11-16 were covered in the closing session.

1. APOLOGIES AND OTHER ATTENDANCE MATTERS

Members of ICCP unable to attend the annual meeting: Walter Pickel (AU), Aivars Depers (AU), Elena Karmazina (AU), Lopo Vasconcelos (MZ), Rosa Menéndez (ES), Javier G. Prado (ES), Harold Smith (UK), Alan Davis (USA), Angelika Vieth (DE), Heike Liszio (DE), John Crelling (US), Diego Álvarez (ES), Manuela Marques (PT), Thomas Gentz (US), Carl Hilgers (DE), Slawka Pusz (PO), Atul Varma (IN), Barbara Kwiecinska (PO), Vivian du Cann (ZA), Carla Araujo (BR), Rich Pearson (CA), Bruno Valentim (PT), Antonis Bouzinos (AU), Ioannis Okonomopoulos (GR), Olga Patricia Gómez López (CO), Cornelia Panaitescu (RO).

2. MINUTES OF THE HOUSTON MEETING

The President asked the Plenary Session for confirmation of the minutes of the 68th ICCP Meeting held in Houston, USA, as published in the ICCP News #66, which was approved as an accurate record of the meeting.

3. ARRANGEMENTS FOR BUCHAREST MEETING

Dr. Georgeta Predeanu made a short presentation stressing the main features related to the timing and venues of the meeting and informing about the logistics.

4. FUTURE MEETINGS

70th ICCP Meeting in 2018 in Brisbane, Australia

Peter Crosdale presented the attractions of the town and the fieldtrip at the Closing Plenary Session of the General Assembly (see below) informing about the location, facilities, and inviting the membership to attend the meeting.

71th ICCP Meeting in 2019

The initial plan of holding an ICCP meeting in Sulaymani-

yah was postponed to 2019 due to the unstable situation in the Middle East. Unfortunately the situation has not improved enough to maintain the plans and a new venue has been proposed.

The option of holding the meeting in The Hague (The Netherlands) sponsored by Shell has been proposed but still needs confirmation from the responsible persons and therefore this option has been accepted pending official confirmation. If this option is finally not possible the meeting will be held in Oviedo. This proposal was accepted by the General Assembly.

72nd ICCP Meeting in 2020

The meeting is initially scheduled for September 16-23th 2020 and will take place in Xuzhou, China. It will be a meeting in connection with TSOP.

73rd ICCP Meeting in 2021

An informal invitation has been received that will be presented to the General Assembly next year.

74th ICCP Meeting in 2022

ICCP already accepted an invitation to hold an ICCP meeting in New Delhi in 2022. A suggestion from Ashok Singh was received to advance this date but he was informed that the first date available to go to India would be 2022.

5. MEMBERSHIP MATTERS

An application for advancement to Full Membership and five applications for Associate Membership were received before the meeting and one more during the meeting for Associate Membership. All applications were recommended for acceptance and have been approved by the General Assembly. Six resignations have been received.

5.1 Associate membership

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

Dr Olga Gorbanenko (A1, 2) Introduced in ICCP Newsletter #66

Dr. Hülya Inaner (A1) Introduced in ICCP Newsletter #67

Dr. Abbas Seyedolali Introduced in ICCP Newsletter #67

Dr. Gregory Smith (A1) Introduced in ICCP Newsletter #68

Dr. Rashimi Singh (A3) Introduced in ICCP Newsletter #68

Dr. Izabela Maris (A1, 2) To be introduced

A short introduction of the new associate members based on their applications and CV's was given to the audience. Five of the new members have already been introduced to the membership in previous ICCP Newsletters, as indicated in the list above. A summary of the remaining profile is given in Appendix 1.

5.2 Full Membership

One active Associate Member of the ICCP applied during the meeting to promotion to Full Member:

Dr. Alok K. Singh (India)

5.3 Expiring Membership

According to the treasurer's report nine members of the ICCP will lose their membership at the end of 2017 (last year paid 2015). A last effort will be performed to contact the members before the end of the year.

5.4 Resignations

Regrettably the following resignations were received during the year: Wolfgang Kalkreuth, Alfonso Dela Cruz, Michael Frank, Olga Gorbanenko, Diana Riggs, Sharon Swanson.

5.5 Other losses

Prof. M. P. Singh passed away in April 2017 (Obituary was published in ICCP Newsletter #68). We stood for a moment of silence in his Memory.

6. ELECTIONS

Three positions required candidates for elections to be filled in 2018. The candidates proposed by Council are listed below:

Vice-President - João Graciano Mendonça Filho & Maria Hamor-Vidó

Honorary Treasurer - Peter Crosdale

Chair Commission II – Jolanta Kus

As no further nominations were received from the floor the candidates for Honorary Treasurer and Chair of Commission II were automatically elected, their turns starting after the 2018 Meeting in Brisbane. During 2018 elections for Vice-President position will take place.

7. EDITORS' REPORT

The Editor presented the report of the 2016-2017 activities (Appendix 2.)

8. FINANCIAL MATTERS

The Honorary Treasurer presented the report of the 2016-17 economic affairs (**Appendix 3**). Accounts are in good shape.

9. ACCREDITATION

Magdalena Misz-Kennan, Chair of the Accreditation Subcommittee, presented an overview of the last Accreditation Round in the year 2016-2017. All three programmes have worked with the newly developed excel-database and significant increase in the participation has occurred in the DOMVR program.

The Accreditation Sub-committee met during the meeting after the daily sessions and was attended by the organizers Kimon Christanis for SCAP, Angeles G. Borrego and João Graciano Mendonça Filho for the DOMVR (João will continue with DOMVR activities after this round), and Isabel Suárez-Ruiz for the CBAP; the Accreditation Subcommittee: Magda Misz-Kennan-Chair and representative from Commission III, Paul Hackley-representative from Commission II, Stavros Kalaitzidis-representative from Commission I; and the external expert Paddy Ransinghe.

The discussion focused on the updated fees, the convenience of sending a hard-copy of the certificates and the dates for the forthcoming 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 in the Opening Plenary Session of the General Assembly. A 5 days course (the 10th ICCP Course) on **Dispersed Organic Matter – Integrating transmitted and reflected light microscopy** was held at the Helmholtz Centre of the German Research Centre for Geosciences GFZ in connection to the ICCP Meeting. The trainers were João Graciano Mendonça Filho and Angeles G. Borrego.

It was agreed in Council, and accepted by the General Assembly, to hold an annual course in Potsdam; the topics will be decided two-years in advance. This will be compatible with holding courses when required in connection with ICCP meetings or upon request and acceptance. The accepted forthcoming courses will be:

2018 Brisbane: General Coal Petrology with Australian Flavour - Walter Pickel & Stavros Kalaitzidis (2 days)

2018 Potsdam: Practical Course on Dispersed Organic Matter - João Graciano Mendonça & Angeles G. Borrego (5 days 4-8 June 2018)

2019 Potsdam: Industrial applications of organic petrology - Isabel Suárez-Ruiz & Walter Pickel (5 days)

The courses will be announced in the ICCP webpage before the end of the year.

11. REGISTRATION OF ICCP AND REVISION OF THE STATUTES

Jen Pearson contacted the Canadian lawyer and we received a proposal for revision of the statutes adapted to the Canadian law. This first version was far away from the spirit and way of functioning in the ICCP. This was revised and a new version was received meeting most of the requirements, although some revision still would be needed. In the meantime and with some changes of the Canadian law it has been found that the registration needs to be accompanied by a liability insurance which has a cost of a minimum of 3500 € per year. Council's view was that this cost will finish off the healthy ICCP's finances in the years to come, unless substantial increase of the membership annual fees or the accreditation fees are decided. Furthermore, it was understood by Council that similar costs would apply in any jurisdiction and therefore the final recommendation from Council was that in the current situation the ICCP should not move towards formal registration and should proceed with the revision of the statutes. Significant discussion occurred between the members and it became clear that the different views were quite clear and far away from each other and therefore a proposal for continuing with the process of registration was voted and accepted by a majority of the ICCP Full Members present in the General Assembly.

Council would therefore search within the year for alternative jurisdictions to Canada for Registration.

12. REPORT FROM THE COMMISSION MEETINGS

Reports of the meetings of the Commissions were presented during the Closing Plenary Session on Thursday 7th September by Stavros Kalaitzidis (Chair of Commission I), Jolanta Kus (Secretary of Commission II) and Isa-

bel Suárez-Ruiz (Chair of Commission III). The minutes of the Commissions are presented in Appendix 4.

Two issues from Commission I were pending for approval by the General Assembly of the ICCP:

The publication of the SEM-TEM chapter of the new ICCP Handbook in the International Journal of Coal Geology as approved during the Meeting of Commission I, which was accepted by the General Assembly.

Council requested to decide on a maximum amount of 15000€ to be spent for the development of an image database after searching for various options available. A discussion followed, in which the general view was that the proposal was not mature enough to decide on that high amount and that a better description of the options, along with more quotations should be provided next year before a decision on the budget can be taken.

The President congratulated Chairs, Secretaries, and Convenors 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.

13. REPORT FROM THE COUNCIL MEETINGS

The minutes of the Council Meetings comprising the resolutions which were adopted at the Meeting are given as Appendix 5. Most of the issues discussed were presented to the General Assembly in their respective topics.

14. FEED-BACK FROM MEMBERS AND ANY OTHER BUSINESS

No feed-back was received and a request received from Ashok Singh was dealt with within the Council Minutes.

15. ARRANGEMENTS FOR 2018 MEETING

Peter Crosdale presented on behalf of the Brisbane organizing committee the proposal for the 2018 meeting.

The Closing Plenary session of the ICCP General Assembly finished thanking the chair of the organizing committee Dr. Georgeta Predeanu and members of the Organizing Committee Mihai E. Popa and Izabela Maris (Faculty of Geology and Geophysics), Maria Doina Ghiran (OMV-Petrom SA), Romina Dorina Mihalache (Romanian Academy), Alina Bugean (Trima) and Jolanta Kus (BGR, Germany) as well as the Honorary Presidents of the Conference (Academician Bogdan Simionescu and Prof. Cornelia Panaitescu and the undergraduate students of the University of Bucharest (Lavinia Stefania Costantin, Cristina-Teodora Sava, Violeta Berçar, Ioana-Beatrice Stănculescu, Georgiana-Cristiana Cojocar, Laura-Maria Ghenu, Roxana Pirnea) for a perfectly organized meeting in which they took any action to meet our needs. The meeting ran smoothly throughout the week.

On Friday the ICCP Symposium on Advances in Applied Coal and Organic Petrology was held.

Welcome Note to the ICCP Meeting

**Mr. Vice President of the Romanian Academy Bogdan Simionescu,
Mr. Director of the Romanian Academy Library,
Mrs. and Mr. Academicians,
Dear colleagues and friends of the ICCP,
Dear colleagues and friends of the Romanian Academy and organizing universities and company,
Honorable representatives of the Ministry of Research and Innovation,
Honorable sponsors present at the opening,
Ladies and gentlemen,**

It is my great pleasure to welcome you all to Bucharest, at the 69th ICCP annual meeting hosted by the Romanian Academy Library.

In my Welcome address, today, I shall speak about the ICCP spirit. What would have happened if it had not been petrography and the curiosity of people to develop it as a discipline and a profession?

It certainly would not have written so much scientific literature, it would have not developed specific equipment and, would not have developed so much in domains close to the peoples life and the world would not been major progressed in geology, chemistry, mining, petrochemical exploration, metallurgy and many other related areas.

It could be said that we would be poorer today and we would not be here.

I say poor because only we know, much better than many others, the miraculous world that is opened before our eyes when we look at an optical microscopy field. What fascination, what spell, that keeps us for hours on thousands of fields and asking ourselves: **Is it colotellinite or collodetrinite?** This is the question!

These questions made us go through almost 70 years with the ICCP. Surely, there are more petrographers who worked in these first almost 70 years of the ICCP and certainly we think of them with gratitude! The ICCP longevity is due primarily to curiosity, limitless concerns of the petrographers, their professionalism, and especially for their love for the organic petrology.

Why the ICCP gathers through annual meetings, one would ask?

The ICCP meetings are organized by petrologists for petrologists! I think the ICCP is an example of constant work, tenacious and especially fruitful and efficiency.

What kept us together almost 70 years?

...and I'll mention a few reasons:

One...Love for the organic petrology, the ICCP spirit, that has made it a strong organization and especially the friendship of those with similar interests, with whom I grew up, we grew up, we have formed and remain.

Love for the organic petrology has made the ICCP a large family. Some grew very young with the most

experienced, and experienced we become ourselves, wanting now to share our knowledge to the young people.

The ICCP has strengthened the friendship of families that have expanded and children becoming themselves organic petrologists and, here we see the organic petrology as a never ending story! I might say that even our family members become, without their wish, some sort of associated organic petrologists.

Second...The joy of seeing us within the ICCP meetings and therefore to travel of over a half or more of the globe, is not an impediment.

Today, I try a strong and best emotion when I have the honour and privilege to open the 69th ICCP meeting in Bucharest, in the Romanian Academy AULA.

Today, we want to share some of the research findings and concerns of the Romanian researchers, in several important presentations of this plenary session. From these results, you will see Romanian pioneering achievements in various fields, at anniversary moments that count up to a few centuries.

I am looking forward to our joint week in Bucharest and hope you will enjoy all of it. And I would like to take this opportunity to thank the Organizing & Scientific Committee and all organizers, helpers and supporters for putting this exciting program together.

Georgeta Predeanu
Chair of the Organizing Committee



[Answer to Know your coal petrologists \(p. 2\)](#)

Dr Rudi Schwab was the ICCP Treasurer from 1997 to 2007. It was great to see him attending the 2017 ICCP Meeting.

Treasurer's Report

August 1, 2016 – July 31, 2017

The Balance Sheet shows the balances of each ICCP account as of July 31st, 2017. The total of all accounts is 84,248.58 Euros, down by 2,786.59 euros from the previous year.

The Activity Statement shows the income received which includes membership fees, a few late payments from the 2016 Accreditation round, interest received in our savings account, donations from Dr. Geoff Taylor (64.53 Euros), and a portion of the profit made at the TSOP/ICCP/AASP meeting in Houston last September (3,029.41 Euros). Also we collected 10,904.39 Euros in fees for the Training Course held at Potsdam in June 2017.

Expenses were higher than usual due to a payment to Elsevier of 2,367.82 Euros, for the publication of the Classification of Liptinite, which is now freely available to everyone. SCAP expenses were higher too and included costs for Kimon and Magda to travel to Porto and stay for a few days in order to learn how to use the new software that was developed for SCAP in 2016. Expenses for the Training Course came to 7,721.73 Euros, so a profit of 2,428.27 Euros was realized. Other expenses include bank and credit card charges, administration, newsletter costs, web site management and expenses incurred by some working groups.

Membership fees are down this year, and are the second lowest since 2008 which was my first year as treasurer, I think this means that it's time for a new treasurer! Forty Nine members paid their dues last year, thirty four were for a period of three years, ten for one year, five were fees for retired members and six members resigned, sixteen members have not paid as of July 2017. Since I became treasurer I have recorded the financial transactions of all memberships, I have a record of 184 members in the books, of these thirteen are sadly now deceased, twenty three have resigned, forty one have lapsed (not paid for 2+ Years) and thirteen are Honorary members. This leaves 95 paying members, of these fifty one are due to pay their fees in 2018.

In 2018 we have another accreditation round which will generate income, and currently there are no unforeseen expenses for next year, so our balance should improve. Overall the ICCP funds continue to be in a healthy situation.

J. S. Pearson

Jennifer Pearson, ICCP Honorary Treasurer

THANK YOU TO JEN FOR ALL HER HARD WORK AS ICCP TREASURER! IT IS MUCH APPRECIATED.
PETER CROSDALE WILL TAKE OVER AS HONARY TREASURER IN 2018.

ICCP

Activity Statement as of July 31, 2016 in Euros.

<u>Opening Balance –</u>	
<u>July 31/2015</u>	
Canadian Accounts	€84,983.57
Euro Accounts	€1,691.08
TOTAL	€86,674.65
<u>Receipts:</u>	
Membership Dues	€953.41
Prepaid Membership	€1,435.08
Accreditation SCAP	€229.10
DOMVR	€656.08
CBAP	€67.05
Bank Interest Received	€182.77
Donation	€3,093.95
Training Course 2017	€10,904.39
Transfer to President	€10,150.00
TOTAL RECEIPTS	€27,671.83
BALANCE	€114,346.48
<u>Expenses:</u>	
Bank Charges	€593.61
Credit Card Charges	€1,262.39
Administration	€556.97
Elsevier	€2,367.82
Web site Management	€470.11
Newsletter Costs	€658.55
Accreditation: SCAP	€2,534.70
DOMVR	€1,650.75
Working Group Costs	€1,013.00
Training Course – June 2017	€7,721.73
ICCP meeting at Houston	€464.27
Transfer to President	€10,804.00
TOTAL EXPENSES	€30,097.90
FINAL BALANCE	€84,248.58

ICCP

Table 2: Balance Sheet

Assets & Liabilities	July 2016	July 2017
<u>Canadian Account</u>		
Chequing Account	\$ 70,610.98	\$66,621.14
Savings Account	53,472.36	53,739.72
Cash	234.35	159.29
Total	\$124,317.69	\$120,520.15
Exchange rate at year end	\$1 = €0.6865	\$1 = €0.6836
	=€85,344.09	=€82,387.57
<u>Euro Account</u>		
Cash	572.20	688.20
SCAP Float	963.65	-36.70
General Secretary/President	155.23	1,209.51
Total	€1,691.08	€1,861.01
Total Balance in Euros	€87,035.17	€84,248.58

Minutes of the Council Meeting

69th ICCP Meeting in Bucharest, Romania, 3rd -9th September 2017

The Council Meeting took place at 13.30 – 18:00 in the Romanian Academy Library, Building B, 2st Floor, Room 128 on 3th September, resuming at 18.00 h on 6th September.

Members of Council present, **Angeles G. Borrego**, President, **Peter Crosdale**, Vice-President, **Jennifer Pearson**, Treasurer, **Nikki Wagner**, Editor, **Stavros Kalaitzidis**, Chair of Commission I, **Dragana Zivotic**, Secretary of Commission I, **Paul Hackley**, Chair of Commission II, **Jolanta Kus**, Secretary of Commission II, **Magdalena-Misz-Kennan**, Chair of Commission III, and **Sandra Rodrigues**, Secretary of Commission III.

Walter Pickel, General Secretary, sent his apologies. At the beginning of the Meeting **Georgeta Predeanu** (Chair of the Bucharest Meeting) was present. At a later stage **Petra David** (past President) joint the Meeting and **Ashok Sing** was present the 6th of September.

2. Minutes of Previous Meeting

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

Resolution ICCPC17/2/1. Council approves the Council minutes as printed in the ICCP Newsletter #66.

Resolution ICCPC17/2/2. Council approves the Plenary Session minutes as printed in the ICCP Newsletter #66.

3. Bucharest Meeting

Resolution ICCPC17/3/1. Council thanks the organizers on their work in preparation of the meeting.

4. Future meetings

Resolution ICCPC17/4/1. Council thanks Peter Crosdale and the Brisbane organizing committee for their work.

It is Council's view that the present situation in Kurdistan makes it impractical to hold the ICCP annual meeting in Sulaymaniyah in 2019. Other options comprising the organization of a course or a symposium in Sulaymaniyah were suggested by the organizers; the Symposium option fits better with the interest of the organizers and the ICCP. The structure proposed is a 3 day symposium with a 2 day field trip in (NH) Spring 2018. Number of invited participants, whose travel expenses can be covered by the local organizers, will be restricted to 15. Details will be advertised in next ICCP News and on the web page. Proposed theme: Organic Petrology of Source Rocks.

Resolution ICCPC17/4/2. ICCP Council approves to hold an ICCP Symposium independent of the Annual Meeting in Sulaymaniyah in 2018 to be hosted by the KISSR

Resolution ICCPC17/14/3. Council forwards to the Plenary Session to approve the organization of the 2019

Meeting in The Hague, The Netherlands, and if this is not finally possible in Oviedo, Spain

These options were accepted by the General Assembly. ICCP has already accepted an invitation to hold an ICCP meeting in New Delhi in 2022. From Ashok Sing a suggestion was received to hold this meeting earlier. Ashok was informed that the first date available is 2022.

Resolution ICCPC17/4/4. Council thanks the organizers for invitation and approves the organization of the 2022 Meeting in Delhi, India.

6. ICCP Student Grant

Based on the Selection process the ICCP Grant Committee proposed the 2017 ICCP Grant to be granted to Mr. Delano G. Henry.

Resolution ICCPC17/6/1. Council congratulates the student grant sub-committee for the activities and supports the sub-committee decision.

Resolution ICCPC17/6/2. Council congratulates the student, Mr. Delano G. Henry for being awarded the Students Travel Grant to attend the ICCP-course in Potsdam, 2017.

7. Elections

Resolution ICCPC17/7/1. Council congratulates the Honorary Treasurer and the Chair of Commission II for accepting their turn of office commencing in 2018 and thanks the candidates for Vice-President for standing elections.

9. Treasurer's Report

The Treasurer's Report (opposite) was presented to the Council.

Resolution ICCPC17/9/1. Council receives the report presented by the Honorary Treasurer, and 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 was presented to the Council.

Resolution ICCPC17/10/1. Council receives the report of the Editor and congratulates her on her outstanding work.

11. Accreditation

Resolution ICCPC17/11/1 Council received the report of the Chair of the Accreditation Sub-Committee and the Organizers of SCAP, DOMVR, and CBAP programs, and congratulates them on the reports. Council thanks the Organizers of the three ICCP Accreditation Programs for their tremendous work, the Treasurer for the extra financial work and the Accreditation Sub-Committee for the support and follow-up of the programs.

12. ICCP Training Activities

Resolution ICCPC17/12/1. Council acknowledges the extensive involvement of Andreas Küppers and Anjie Treutler as organizers of the courses in Potsdam, 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 Organic Petrology and congratulates them for the work.

Council acknowledges the enormous amount of work involved in teaching the intensive ICCP course and express that ICCP is deeply in debt with Dr. João Graciano Mendonça and Dr. Angeles G. Borrego for their work in 2017.

Resolution ICCPC17/12/2. Council receives the report of the ICCP Vice-President on the ICCP training activities and congratulates him on the detailed report.

Resolution ICCPC17/14/2. ICCP Council approves the decision to hold an annual ICCP Course in Potsdam annually in June, the topics to be decided 2 years in advance.

13. ICCP Registration and Revision of Statutes

Resolution 17/12/01. Council has explored the possibilities to register in Canada. The annual liability insurance costs are a minimum of 3500€. Council recommends not to register in Canada or any other jurisdiction.

This Resolution was not accepted by the General Assembly and instead further search for alternative jurisdictions has to be carried out by Council.

Resolution ICCPC17/12/02. Council recommends to proceed further with the revision of the statutes.

14. Feed-back from Members

A proposal was received from Ashok Singh to explore modalities for collaboration between ICCP & CSIR Central Institute of Mining and Fuel Research, Govt. of India, to establish an international training centre on coal petrography & chemical analyses.

Ashok attended the second Council Meeting to try to establish the aim and scope of the proposal, and was invited to make a more formal proposal that could be discussed further. The contact person in Council is the Vice-President who is in charge of the training activities of the ICCP.

15. Budget for developing a new image database

Following the discussion in Commission I on the options to develop an image database for the ICCP.

Resolution ICCPC17/14/1 Council requests from the General Assembly to decide on 15000 € as a maximum amount to proceed with building the image database.

This resolution was not accepted by the General Assembly that requires more detailed information before a budget can be approved.

COMMISSION MINUTES



Minutes of ICCP Commission III, Industrial Applications of Coal Petrology, 4th September, 2017 69th ICCP Meeting, Bucharest, September 4, 2017

Chairperson: Magdalena Misz-Kennan

magdalena.misz@us.edu.pl

Secretary: Sandra Rodrigues s.rodrigues@uq.edu.au

14.45-15.00 – Opening Address

Commission III meeting was attended by 37 attendants. The chair of the commission presented the objectives and focus of the Working Groups (WG) and Accreditation Program (AP) as well as active WGs which will be discussed during the session. Magda also showed the schedule for the first and second day. She brought to all the attendees' attention to the materials available in the webpage.

15.00- 15.50 – Coal Blend Accreditation Program (CBAP)

Organizer: Isabel Suárez-Ruiz. Isabel Suárez-Ruiz introduced the objectives, procedures, and evaluation of the CBAP. Two participants failed the program this year; however their results were uploaded in order to produce a report to be sent to those two participants. Then she showed the management of the program and requirements. Participants have to analyse 2 samples entering the program and 1 sample for continuation. Sample preparation was carried out in Oviedo. 80% of the Excel files sent by the participants had some problems, such as modification of the file name. It is important that the participants read the instructions carefully. Results of the CBAP: the interest of the participants increased but the number of participants in reality decreased because some of the Australian participants decided not to proceed with the AP due to changes in their professional status. The two failures (7%) in the AP were related to the number of coals in the blend. Isabel asked for single coals to use in the blends. The requirements for coals will be sent to people who are able to supply the coals. Those people should contact Isabel.

At the end of the session Magda asked Isabel to verify the dates for the next CBAP. The main questions from the attendees were related to hard copies of the certificates. Paul Hackley asked if the chair of the AP could reconsidered sending the certificates by mail. Isabel said that sending the certificates by mail is expensive and some are lost along the way. Magda said that during this round the certificates will be sent by mail. Kimon suggested just sending the first ones by email and in case of lost send the second time by email. George Siavalas suggested asking the participants if they prefer a hard copy. Magda suggested adding the option of hard/digital copy in the application form. It was finally decided that the certificates would be sent by post to all participants.

Magda also raised the question regarding the difficulties of sending samples to certain countries due to security rules.

Subject to be discussed during the Accreditation Subcommittee meeting.

16.35- 17.35 – Carbon Materials WG

Convenors: Georgeta Predeanu, Cornelia Panaitescu, Isabel Suárez-Ruiz. After coffee break the meeting of the Carbon Materials WG took place. Georgeta Predeanu brought to the attention the importance of activated carbon in the daily life, and its distinctive characteristic porous structure, surface area, pure chemical composition (almost 100% carbon). Rate of heating, temperature and atmosphere, as well as the characteristics of the raw material, are very important for the properties of the new carbon materials.

This year the classification regarded the whole particle. From 14 analysts interested in doing the exercise only 7 sent the results. Michela Bala helped with the statistics of the exercise. Georgeta proposed to introduce other types of materials for the next exercise, such as biomass. Isabel said she will provide samples, such as activated carbon and other types of raw materials. Isabel also stressed the importance of the WG and what we can learn by studying the physical and optical properties of the materials.

Jolanta Kus asked if the micro-cracks are only observed in the activated carbon and what is the mechanism for their formation. Georgeta explained that the cracks formed during oxidation. Chemical activation is a mechanism for their formation. Stavros asked if it would be possible to upload the exercise into the webpage and send an email to the members if they willing to participate in the WG, which Georgeta and Magda agreed with that.

Rasmid asked if it is possible to reactivate used activated carbons and Georgeta said that yes but their efficiency will be lower. Georgeta accepted the late results from Paul Hackley and invited everyone to participate in the WG.

17.35 – 17.45 – Self-Heating of Coal and Coal Wastes WG

Convenors: Magdalena Misz-Kennan, Jolanta Kus and Deolinda Flores. Magda Misz-Kennan explained the content of the paper that will present the classification of organic components in self-heated coal wastes. She apologized for not delivering a draft of the manuscript to the co-authors for review and comments but she will try to finalize publication of the manuscript next year.

5th September, 2017

Commission III continued the meeting on Tuesday, September 5, 2017 from 9.05 am and was attended by 29 participants.

09.10-10.20 – Identification and Petrographic Classification of Components in Fly Ashes

Convenors: Isabel Suárez-Ruiz and Bruno Valentim. Isabel Suárez-Ruiz presented a short description of the two stages of the WG and described the different levels for the fly ash characterization. During this year Round Robin Exercise the participants were asked to analyse using reflected light microscope two samples (polished blocks) that included fly ash from combustion of biomass (one sample) and bituminous coal (one sample).

The results obtained from participants were scattered for the different qualifiers and their standard deviations were high for both samples. Isabel justified that part of these results were related to lack of experience of some of the participants. When the less experienced participants were removed from the statistics the standard deviations decrease for all qualifiers in both samples. As for the more experienced analysts the major discrepancy was in the character qualifier, which could be related to how the qualifier was considered, either the point of the cross-hair or a small area around the cross.

Stavros commented that the results were very positive and that the two analysts maybe had reported wrongly the character of the qualifier. In case of Fused vs Unfused, Stavros said that it could be hard to distinguish without a middle term partially fused, and Jolanta said that it could be very difficult to

distinguish these forms just by using the cross-hairs. Isabel explained that partial fused was used in the beginning of the WG and that was decided to be removed from the classification, and that the participants should consider only a small area to classify the optical texture, so that problem would be avoided. Angeles added that Fused and Unfused can also be very difficult to differentiate in biomass fly ash because sometimes it is not easy to differentiate between the original structure of the biomass or devolatilization. Isabel said that she will send more images to the participants to help them to differentiate those properties, and Magda suggested adding more images of biomass to the Atlas in the website. George also brought to attention that maybe the participants do not read the instructions carefully which may lead to scatter in the results, and other problem that he faced was that one of the samples had a lot of fines which can also contribute for the result scattering, especially when considering dense vs porous particles. Georgeta proposed the data to be statistically analyzed using the same statistical method used in the Carbon Materials WG. Stavros suggested that Isabel could send some photomicrographs together with samples so that the participants do the exercise using both methods (image analysis and microscopy) and see if there is much difference between points selected by the convenor in an image or by routine point count under the microscope. Isabel said that the phase for photograph analysis was done in the previous phase of the WG and that the WG moved further to pellet analysis. Isabel will send a report to all the participants.

10.20 – 10.45 – Coal Oxidation WG

Convenors: Isabel Suárez-Ruiz and Magdalena Misz-Kennan Isabel Suárez-Ruiz proposed to change the name of the WG into a broader name that would include other organic materials beside coal. She suggested that the name of this WG should be changed into much broader name like Organic Matter Oxidation WG and this suggestion was accepted.

Samples were requested for this working group, although Isabel has the first oxidized coal samples to start this exercise. DOM and soil samples will also be part of WG exercises. However, to have a control of the oxidation level of the samples micro-FTIR should be conducted, for which Isabel request some volunteers that have access to this equipment to help with the analysis. Jolanta suggested contacting Maria Mastalerz on this regard. Paul Hackley also offered to help since USGS also acquired the equipment and should be fully operating during summer next year. Georgeta brought to attention features belonging to natural (such as pseudovitrinite) and artificial oxidation that occur during coal handling. Peter Crosdale said that the scope of the WG can be expanded and suggested to access to the degree of oxidation using quantitative fluorescence. Jolanta suggested to use red stain technique to detect oxidation because just petrographic features such rims and cracks might not be the best qualifiers for oxidation. On the other hand, Nikki suggested using the alteration of minerals during oxidation as a tool.

11.30 – 12.10 – Environmental applications of organic petrology WG

Convenors: George Siavalas and Stavros Kalaitzidis. The meeting continued after coffee break. George Siavalas presented the questionnaire was sent to participants that included a number of questions related to collecting and handling environmental samples. He discussed the responses to this questionnaire from participants.

Nikki asked if it was possible to access the questionnaire and George said that he will sent it by email and upload into the website as well. Kimon disagreed with the term "non-environmental samples from outcrops" since it may bring some confusion. George said that those names can be changed. Jolanta asked that when dealing with maceral terms that they refer to geological samples, therefore, when huminite term is used for biomass or coal. George said that with the work of the WG that question will be clarified. Julito Reys made the observation that it is relatively easy to distinguish between recent

sediments from coal particles from an outcrop due to their different fluorescence properties. Stavros asked to the audience what do they think regarding the classification of petroleum coke and carbonized coal, and where to move petroleum coke within the classification. Angeles said that it is important to define their origin since it is important to know where they come from an environmental point of view, and that the conveners could call coal-derived organic matter instead of carbonized organic matter.

12.10 – 12.40 - Other working groups and closing remarks.

The chair of commission III presented the current state of the other WGs, starting with the Gasification Products WG, convener Nikki Wagner. Nikki, in the audience, apologized for the lack of activity; however an exercise using photomicrographs is almost ready to be sent to participants. Nikki suggested that Barbara Bielowicz join the WG as a co-convener, which was accepted by Barbara. Nikki also requested for the exercise to be uploaded into the website and asked what would be the suitable number of images, taking in consideration the variability of the product. Isabel replied that depends from the objectives if the WG and the number can vary from WG to WG.

Next Magda presented Małgorzata Piechaczek as the new convener of the Coke Petrography WG replacing L. Johnson. Małgorzata gave a short presentation about what were her plans for the WG. One is to simplify the ASTM classification for coke and that she has some microphotographs that can be used in the next exercise, which she is planning to send to the participants this year. Depending on the results, she also plans to send pellets to be evaluated by the participants before the next ICCP meeting. She plans to make attempt to create a reflectance standard in collaboration with David Pearson. David Pearson was happy to support her and the WG in general.

Regarding the Liquefaction Residues Classification WG, the convener (H. Gerschel) could not be present but requested any samples or photos that could be used for the next exercise. Just before this ICCP meeting H. Gerschel sent a document to be evaluated by the participants and she requested a reply by October this year.

Due to delays regarding with visa, Ashok Singh presented an update on the Optimization of the Reflectance Measurement on Complex Blends WG the next day, during the time of Commission I or II, and to which Commission III is most appreciated.

Magda finalized by asking if there were any new WG to be proposed, however no new WG were proposed, and requested the conveners of the WGs to update the webpage with the new activities of their working groups.

On September 6, 2017 from 11.50 to 12.15 Ashok Singh gave a short presentation on the current state of the Optimization of the Reflectance measurement on complex blends WG and requested an industry member to join this WG. Currently he blended coals from U.S., Australia and Mozambique, and is preparing 7 samples to be sent to the participants. There was a discussion about the validity of this WG taking into consideration its similarity with a previous WG (Coal Blends WG conveyed by Isabel Suárez-Ruiz), in which Isabel said that the previous working group demonstrated that the number of VR measurements and maceral counts in coal blends from different parts of world had worked and is accepted in the ISO standard. Peter brought to the attention that the objective of the WG is counts, and therefore different of the previous WG. Georgeta stressed the importance of sample preparation of coal blends when compared to the number of counts, as well as vitrinite identification. Smith (Curtin) offered to evaluate the statistics of the counting. Sandra requested Ashok to send samples, and evaluate the progress of this WG. Stavros requested to be sent to all the interested participants.

ALL ARE REMINDED THAT YOU MAY PARTICIPATE IN ANY WORKING GROUP, EVEN IF YOU WERE NOT AT THE MEETING



Minutes of ICCP Commission II, Geological Applications of Coal and Organic Petrology 69th ICCP Meeting

The University “Politehnica” of Bucharest, the University of Bucharest, and the Romanian Academy

Chair: Paul Hackley phackley@usgs.gov

Secretary: Jolanta Kus, J.Kus@bgr.de

Wednesday – 06th September

The Commission II meeting started on Wednesday September 09th at 12:30 in Amphitheatre “I.H. Rădulescu” of the Building of the Romanian Academy Library Calea Victoriei 125, Bucharest, Romania and was attended by 44 participants.

12:30 – 12:45 - Opening address – Paul Hackley & Jolanta Kus

The opening address of Commission II, Geological Applications of Coal and Organic Petrology was given by Paul Hackley and was followed by short presentation of the work schedule of Commission II for Wednesday. The Chair informed also 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 web site of Commission II.

12:45 – 13:30 – DOMVR and Component identification Results on Microscopy Samples WG – convener: Angeles Gomez Borrego

The aim of the WG is to compile, document and disseminate results and information of dispersed organic matter vitrinite reflectance measurements carried out on microscopy samples. The compilation and documentation is based on final reports of former and present ICCP round robins and interlaboratory exercises. The convener gave a short introduction into the work conducted so far on the compiled and documented data. The compiled and documented records are available as detailed reports in *.pdf format and can be accessible upon login in the restricted section of the ICCP website. Conveners, who have carried out petrographic analyses and vitrinite reflectance measurements can document the group mean results and compile the associated information by uploading and filling a form available at: <http://www.iccop.org/workinggroup/domvr-and-component-identification-results-on-microscopy-samples-in-commission-ii-of-the-iccp/> The form can be then submitted to the convener for final uploading to the restricted section of the ICCP website.

The convener acknowledged the support of Deolinda Flores for her help dealing with the archived documents, Carla Araujo for her support with compilation of the DOMVR results acquired within the Thermal Indices WG, Paul Hackley for his help providing the DOMVR results acquired within the Primary Vitrinite WG and João Graciano Mendonça Filho for his support providing the DOMVR results acquired within the organic Matter Concentration WG.

Commission II thanks Angeles Borrego for her great efforts in compilation of the former data and information from within the WGs of ICCP Commission II.

14:30 - 15:00 - Correction Function for Fluorescence lamps – Richárd Orbán, Ángeles Gomez Borrego

The aim of the WG is to standardize spectral fluorescence measurements. Ángeles Borrego gave a short overview on the set-up for spectral fluorescence measurements and results acquired in the interlaboratory exercises of the Thermal Indices WG and tests performed at INCAR. The convenor indicated that: (1) age-associated deviations (irregular peaks in similar emission range between 600 and 700nm) are introduced in the emission spectra of the ICCP lamps nr. 3 (1997) and nr. 5, introducing at the same time artifacts in the calculated correction functions; (2) also different emission spectra of the ICCP lamps nr. 3 (1997) and nr. 2B (2009), followed by dissimilar calculated correction functions are obtained for different calibration systems (photomultiplier and CDD camera). The associated uncorrected and corrected sample spectra are different; (3) the calibration function calculated in 2009 and 2014 for the same device within 5 years difference is dissimilar, resulting in dissimilar uncorrected and corrected sample spectra. The convenor presented a search for different calibration standards such as the green 2941B007 standard or a halogen lamp. Ángeles Borrego intends to circulate a questionnaire in order to establish different set-ups for spectral fluorescence measurements.

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

15:00 – 15:30- DOMVR Accreditation Program – Ángeles Gomez Borrego

The convenor presented an extensive summary of the Dispersed Organic Matter Vitrinite Reflectance (DOMVR) Accreditation Program initiated by Alan Cook in 2006. The 2016-2017 Round was again a successful accreditation round. The number of participants submitting the DOMVR results increased by 8% to 65 participants, including 19 entry participants and 46 continuing participants. The overall number of accredited petrographers increased from 2014 by 11% to 62. The highest number of participants was recorded from Columbia followed by the USA, Australia and Brazil. Participants from the European countries were in the minority. Comparing the participation among the continents, the number of participants from Europe and South America reached the highest levels and increased compared to the last round significantly, namely to 24 and 22 participants respectively. As in the last two rounds (2012, 2014), the convenor noticed a significant rise of non-ICCP participation by 24% to overall 25 non-ICCP members. The sixth DOMVR Accreditation Round started in the first trimester of 2016 and was accomplished in December. The results were evaluated in December with validity of the DOMVR accreditation extending until the 31 December 2018. The terrestrial samples display lower scatter in the values as shown by GSD as opposed to marine samples with high GSD. Most participants had moderate to high precision in their values (AUMSD) and low bias (ASMDS). The list of DOMVR accredited petrographers is updated on the ICCP website. The convenor introduced a procedure for a new pre-screening criterion of $GSD \geq Rr \cdot 0.15$ to discard unsuitable samples from the databank. The pre-screening criterion is going to be applied as a pilot performance screening during the 2018 DOMVR Accreditation Program. Participants will be asked to provide results with $SD < 0.15 \cdot Rr$. This new accreditation round will commence in 2018, launching the seventh 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. The next 2018 DOMVR Accreditation Program will be convened by João Graciano Mendonça Filho as the present convenor has resigned. All interested persons are encouraged to contact João Graciano graciano@geologia.ufri.br to participate in the 2018 DOMVR

Accreditation.

Commission II congratulates Ángeles Gomez Borrego for her tremendous and very valuable work carried out within the DOMVR Accreditation Program! Commission II wishes at the same time João Graciano Mendonça Filho good progress and lots of success.

Thursday – 07th September

The Commission II meeting resumed on Thursday September 07th at 09:00 in Amphitheatre “I.H. Rădulescu” of the Building of the Romanian Academy Library Calea Victoriei 125, Bucharest, Romania and was attended by 31 participants.

09:00 – 09:30 - Dispersed Organic Matter White Paper WG – convenor: 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. The WG was established in 1995 and convened by Wolfgang Kalkreuth. Since 2005 the successive convenor Mária Hámor-Vidó carried out further activities. During the 2017 session of Commission II Mária Hámor-Vidó gave a short overview of the latest version of the White Paper. The version includes nine chapters with about 90 pages. Revisions and actualizations as well as extensions of various chapters are still necessary, following updates on references and multiple images. Mária Hámor-Vidó resigns from her present position as the convenor of the WG. The Commission II invited Isabel Suarez-Ruiz to accept the new convenor position of the Dispersed Organic Matter White Paper WG. The new convenor will receive support and contributions from Paula Alexandra Gonçalves and Jolanta Kus.

Commission II congratulates Mária Hámor-Vidó for her valuable and appreciated work carried out within the Dispersed Organic Matter White Paper WG! Commission II wishes at the same time Isabel Suarez-Ruiz good progress!

09:30 – 09:45 – Confocal laser Scanning Microscopy (CLSM) WG – convenor: Paul C. Hackley, Jolanta Kus

The objective of the CLSM WG is to investigate applications of confocal laser scanning microscopy to organic petrology. The working group was established in 2015 at the ICCP Meeting in Potsdam. Paul C. Hackley gave a broad overview on the currently published application of CLSM to organic petrology followed by review of the WG's activities since 2015. The CLSM survey carried out in 2016 established a valuable information on the availability and access of participants to CLSM instruments as well as on the CLSM type and potential applications of CLSM in terms of imaging and spectroscopy in the field of organic petrology. The convenors will decide on the near future study objectives.

Commission II thanks Paul C. Hackley and Jolanta Kus for their work carried out within the WG and congratulates them.

09:45 - 10:15 - Identification of Dispersed Organic Matter WG – convenor: Jolanta Kus

The objective of the identification of Dispersed Organic Matter WG is to examine and assess a potential suitability of the ICCP-TSOP Classification System of DOM in identification of organic components in whole rock pellets and to modify, if necessary the existing ICCP definitions of liptinite macerals [lamalginite, telalginite and bituminite (ICCP, 1993)]. The convenor presented 2016-2017 activities of the WG, including (1) 2017 publication of the 2006, 2009 and 2011 round robin exercises in IJCG, (2) contribution of the results of the 2006, 2009 and 2011 round robin exercises to the Classification of Liptinite published by Pickel et al (2017) in IJCG, and (3) the results of the 2016 round robin exercise on Kimmeridge Clay from Dorset, UK. Jolanta Kus ran the fourth round of a round robin exercise with the aim to characterise optical properties of bituminite in whole rock sample and kerogen concentrate and to measure mean random reflectances of vitrinite and bituminite in whole rock pellets and

concentrates. The kerogen concentrates were kindly prepared by João Graciano Mendonça Filho. Following a presentation and discussion of the submitted results, the convenor intends to run a fifth round robin exercise on higher maturity Kimmeridge Clay from North UK.

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

10:15 - 11:00 - TSOP-ICCP DOM Atlas– acting convenor: Isabel Suarez-Ruiz

The TSOP-ICCP DOM Atlas WG was created in 2003 during the ICCP Meeting in Utrecht with the aim to illustrate the appearance of the different dispersed organic components under different illumination conditions and using different methods for sample mounting. The WG is a joint effort of the International Committee for Coal and Organic Petrology (ICCP) and of The Society for Organic Petrology (TSOP). The former convenors of the WG were Adrian Hutton, Jack Burgess and lately Lavern Stasiuk with Carolyn Thompson-Rizer. The acting convenor Isabel Suarez-Ruiz showed the present development of the TSOP-ICCP DOM Atlas Project. The present version of the DOM CDs involved a great number of amendments, 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 with support of Ángeles Borrego and João Graciano Mendonça Filho. The convenor asked for images of vitrodetrinite, gelinite, suberinite, exudatinitite, macrinite, cuticles of ostracods and hydrozoans. The final version of the TSOP-ICCP DOM Atlas is to be finalized and presented by the end of this year.

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

11:30 - 12:00 - Identification of Primary Vitrinite WG – convenor: Paul Hackley

The WG was created in 2008 during the ICCP Meeting in Oviedo with the aim to provide guidelines, rules and procedures for identification of the primary vitrinite population in dispersed organic matter. The convenor gave a historical review of activities carried out within the WG, including among others publication of results of the ASTM D7708 interlaboratory study 2012-2013 in *J. Marine and Petroleum Geology* in 2015 and presentation of results of the second interlaboratory study 2015-2016 on high TOC/high maturity samples. Following a thorough discussion on the main outcomes of the interlaboratory study 2015-2016 such as the possible reasons for high ASMSD and solid bitumen vs. vitrinite identification, the convenor deliberated on how to apply an objective statistical method or approach to eliminate outliers and to refine the acquired results.

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

12:00 – 12:45 - Palynofacies WG - convenor: João Graciano Mendonça Filho

The WG was established in 2011 at the ICCP Meeting in Porto with the aim to: (1) standardize approaches applied in palynofacies, (2) generate an image atlas, supplementing the volume of Tyson's *Sedimentary Organic Matter*, (3) compare results obtained by palynofacies approaches in transmitted light with those obtained by organic petrology approaches in incident white and fluorescent light techniques. The convenor presented results of the fifth 2017 Exercise focusing on characterisation of the origin of amorphous group (freshwater and higher plant derived AOM) in strew mounts, kerogen concentrates and whole rock samples. The objective of the exercise comprised identification of components, assessments of proportions and preservation state as well as the potential correlation between the palynofacies components and ICCP-based macerals. The presented results on the strew mounts for both samples PWG 6 and 7 displayed a well-identified kerogen groups (phytoclads,

amorphous and palynomorph components). However the identification of different components (phytoplankton-AOM, high plant-AOM or AOM) among the amorphous group posed several identification difficulties. The whole rock (WR) and kerogen concentrate (KC) samples displayed good agreement among the identified macerals groups for both samples PWG 6 and 7. However, among the macerals of the liptinite (lamalginite, telalginite and sporinite/cutinite) and inertinite groups (semifusinite, fusinite and inertodetrinite), the differentiation was less obvious. In the correlation between phytoclasts in strew slides and liptinite macerals in WR and KC samples, (1) a correlation between the AOM derived components and liptinite macerals and (2) a correlation between the Non-opaque/opaque derived components and inertinite macerals was obtained. However, the predominance of AOM-derived components such as phytoplankton-AOM, high plant-AOM or AOM in strew slides cannot be properly correlated to liptinite macerals such as lamalginite, telalginite and sporinite/cutinite in whole rock and kerogen concentrate samples. A similar situation is recorded for the correlation between the Non-opaque/opaque derived components and semifusinite, fusinite and inertodetrinite macerals in whole rock and kerogen concentrate samples. With the completion of the fifth 2017 exercise on the particles in Amorphous Group, the sixth 2018 exercise will encompass bacterial derived AOM and marine phytoplankton derived AOM from the Amorphous Group. In the subsequent discussion, Riza *Görkem Oskay* commented to have experienced difficulties with the PWG 6 sample, which could be omitted by sieving the sample and re-visiting the analysis. He also proposed to perform the exercise on coals rather than on DOM in rock samples. Ángeles Gomes Borrego responded that the performance of palynofacies analyses on coals does not make sense due to the general lack of mineral matter between the organic components. Isabel Suarez-Ruiz was confused by the correlation between the AOM-related components in TL and the liptinite macerals in whole rock and kerogen concentrate. This seemed to be a major problem of the correlation and requires an adequate solution. Ángeles pointed out that in the TL slides one might count a combination of organic components and mineral matter as one component (i.e., mineral-rich bituminous groundmass with organic components) as opposed to solely organic components in the whole rock and kerogen concentrate samples. Jolanta stressed out that in the examined whole rock and kerogen concentrate samples, also bituminite can be encountered as well as transitions between bituminite and lamalginite. She also stated that AOM components in TL slides can be derived in whole rock and kerogen concentrate samples from either mineral-rich bituminous groundmass or/and bituminite and that mineral-rich bituminous groundmass is not a maceral according to the ICCP liptinite classification (Pickel et al., 2017) and therefore cannot be counted.

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

12:45 – 13:00 - Shale Gas WG – convenor: Lila Gurba

The WG was established in 2010 during the ICCP Meeting in Belgrade with the aim to: (1) monitor and provide updates related to organic petrology applications in shale gas exploration and development, (2) deliver a Shale Gas Handbook, and (3) conduct a Round Robin exercise to calibrate various thermal indicators and investigate factors controlling thermal maturity assessment in a vertical section. The convenor gave an overview of the past activities carried out within the WG and presented and discussed the table of contents and the status of the individual chapters for the Shale Gas Handbook. Lila Gurba stressed out the lack of well-agreed upon definition and classification of shale in unconventional resources, followed by classification of shale gas resources and reserve estimations. The convenor raised also the issue of a threshold for gas production in gas shales and its limits. Lila Gurba also addressed the application of new technology and techniques in identification of OM in unconventional gas reservoirs to be of importance. Following the presentation, Isabel Suarez-Ruiz declared to provide

(1) references on application of organic petrology in exploration of conventional and unconventional systems, (2) contribution on depositional environment and shale diagenesis, and (3) contribution on microporosity on nm scale and CO₂ adsorption capacity; Riza *Görkem Oskay* will provide contribution on mineralogy of shales; George Sivalas can supply references for retardation of VR rather than suppression and shale gas prospects in Canada; Jolanta Kus can contribute to shale gas prospects in Germany; Ali İhsan Karayiğit can provide application of microCT to microporosity. Greg Smith asked to include wet gas in the title. The updated Table of Contents and the summary of individual chapters will be circulated to the editorial team for further **comments**.

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

13:00 – 13:20 - CBM and CO₂ gas storage WG – convenor: Lila Gurba

The WG was established in 1998 with the aim to present the main aspects of worldwide activities of CBM and CO₂ gas storage and to outline factors contributing to adsorptions capacities of methane and CO₂. The convenor presented a historical review of the activities carried out in the WG. Following a general

explanation on the application of coal and organic petrology to coal seam storage of CO₂ (e.g., coal rank, maceral type, microstructure, coal permeability and gas content), the convenor discussed the current status of research into CO₂ storage in shales.

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

13:20-13:30 – Closing remarks – Paul Hackley & Jolanta Kus

Paul Hackley congratulated all convenors of the WGs as well as the numerous participants of the ICCP Commission II for their valuable and motivating work and productive discussions. The Chair also acknowledged ICCP members who have actively participated in a number of the round robin exercises and encouraged all convenors to publish the acquired and obtained results in international journals and the ICCP News. Paul Hackley asked all convenors to send their presentations and updates for the ICCP Commission II website to Paul Hackley or Jolanta Kus.

The meeting of Commission II ended at 13.30 on September 7th. 2017.

**MINUTES OF COMMISSION I
GENERAL COAL AND ORGANIC PETROLOGY**

69th ICCP Meeting – Bucharest, Romania, 5-6th September 2017

Chair: Stavros Kalaitzidis, skalait@upatras.gr
Secretary: Dragana Životić, dragana.zivotic@rgf.bg.ac.rs

Opening remarks

The session of Commission I started at 14:30 on Tuesday September 5th, and was attended by 38 members. The Chair of Commission presented some “highlights” of the previous ICCP meeting in Bucharest in 1999, outlined the programme for the COMMISSION I and presented the progress regarding the ICCP Petrographic Data Bank, as well as the publications in International Journal of Coal Geology of the **Liptinite** and **Oxidation Editorial Groups**. These two EG publications are published under Open Access terms; **Classification of liptinite-ICCP System 1994**, in International Journal of Coal Geology 159, 40-61 and **Coal weathering and laboratory (artificial) coal oxidation**, International Journal of Coal Geology 171, 12-36. Both publications can be assessed also from the ICCP web site.

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 13,666 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 become available by contacting either Lopo or Com I Chair/Secretary.**

Commission’s I sessions included a Microscope Session, as well as presentations of the following WG’s:

- ⇒ Single Coal Accreditation Program
- ⇒ ISO Standards
- ⇒ Distinguishing Features of Macerals Editorial Group,
- ⇒ Standardization Working Group,
- ⇒ Reflectance & Terminology of Zooclasts in old sediments,
- ⇒ Suberinite Working Group,
- ⇒ Xylite-rich Lithotype Classification WG,

- ⇒ New Methodologies and Techniques in Organic Petrology WG
- ⇒ Petrographic Image Database,
- ⇒ New Handbook - Application of TEM and SEM Chapter,
- ⇒ New Handbook Editorial Group
- ⇒ Liptinite Editorial Group – finalized activities,
- ⇒ Oxidation Editorial Group – finalized activities,

Apologies for not attending were received by Walter Pickel, Thomas Gentzis and Giannis Oikonomopoulos.

Single Coal Accreditation Program - Kimon Christanis

Kimon presented the activities, the results, and some challenges of the 2016 SCAP round. The 2016 SCAP exercise was announced in February 2016. Participants have electronically registered via the ICCP webpage. Unfortunately, due to late registrations the dispatch of invoices, samples and instructions has lasted from April till August 2016.

In the past exercises, beginners received six block samples and continuing participants two bulk coal samples. However, in the 2016 exercise for the first time all participants received bulk samples. In total, around 350 samples were dispatched. 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 extended deadline to submit the results was set on 31st of October 2016. In total 107 analysts were initially registered in the 2016 SCAP from 63 laboratories located in 23 countries; 106 analysts corresponded further, from whom 65 were ICCP members. The breakdown in continuation *versus* new entries is 89 to 17, respectively. It is also interesting to note that the majority of the participants are ICCP Members, something that did not happen since the 2008 round. The geographic (concerning continents) distribution of the participants was: Oceania 30%, Europe 33%, America 23%, Africa 10% and Asia 4%.

Kimon also commented on the logistics of the Program so far: After the experience of the 2014 round, sample sets were sent to participants in certain countries per registered post. This increased the expenses per sample set, although at the end, proved being cheaper (30%) and more reliable (i.e. less lost sample sets, no delays in the procedure).

For the first time a high-rank coal (anthracite) was included in the sample set. It was sent to selected participants (old-standing).

Several payments were enormously delayed and after several reminders sent by Jen and Kimon, the completion of the sample-dispatch could be achieved only by the end of August, instead of the planned date that was May.

For the first time in SCAP's history, the participants' results were assessed through a database. This prerequisites that the organizer inserts into the database coal and sample codes for all the participants; then the data summary sheet for each one is generated and sent to the participant. In order to be able to complete this job, all the participants had to pay the fee on time and to receive the samples. Late payments and lost sample sets lead to delays. For this reason, the data summary sheets had been distributed to the participants early September.

Kimon acknowledged the contribution of the following persons: the former and the current chair of the ASC, namely Deolinda Flores and Magdalena Misz-Kennan for their continuous support; particularly Deolinda for her valuable contribution in the preparation of the database to electronically assess participants' results; the Honorary Treasurer Jen for handling the SCAP finances; Isabel Suárez-Ruiz, Gisela & Gerd Bieg, Deolinda Flores, Jolanta Kus, Stavros Kalaitzidis, Małgorzata Piachaczek for sample supply; all the SCAP participants; his students Nadia Kalantzi, Vasia Samara and Zoe Dilgeraki for assistance in preparing the sample sets.

Regarding the samples databank, since only bulk samples will be distributed from now on, **Members who can supply suitable bulk, single coal samples, please contact Kimon: christan@upatras.gr**.

After short discussion Commission I thanked Deolinda, Magda and Kimon for their great work in Porto on the final checks and evaluation of the accreditation data.

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

ISO Standards – Walter Pickel

Stavros presented on behalf of Walter Pickel the ISO standard status. ISO Standards undergo a 5-year revision cycle and Walter suggests having a rather formal ICCP representative to ISO regarding particularly the ISO 7404 discussion. Recent microscopes development significantly influenced petrographic work, (new LED illumination rather than halogen lamps or mercury 'burners', replacement of photomultipliers etc.). According to the progress done within the WGs, ICCP might want to have a list of required modifications and changes ready when the revision time will come. Also, Walter expressed the need for ICCP to have an active participation.

Petra David pointed that usually the president of ICCP had to be actively involved in ISO standard Committee. During the discussion Angeles Borrego mentioned that she will communicate with Walter, as he is also active in the field, to discuss further the representation of ICCP.

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

Distinguishing Features of Macerals EG – Walter Pickel

Stavros continued with the progress of the EG on Distinguishing Features on behalf of Walter Pickel, and presented the aim of the WG. As a start Walter suggests sending questionnaire to those who have (or will) sign(ed) up in order to collect suggestions of what to add. These suggestions will be edited to a compilation that will then be circulated again. The idea is to compile distinguishing features between macerals, maceral sub-groups etc. that the current classifications seem to be inadequate to assist in cases of "transitional stages" "difficult samples" etc. The questionnaire will be circulated among the 22 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.

Some participants pointed out that fly ash and biomass terms could be incorporated into the text. Angeles Borego emphasized that the questionnaire will be updated. Petra David pointed that the under-development image database should be related to the final text.

Commission I thanked Walter for his efforts in this Editorial Group.

Standardization WG – Walter Pickel

Stavros presented on behalf of Walter Pickel the 2017 Exercise for the Standardization WG.

Fifteen (15) sets of two lignite samples from the Lausitz Lignite District, Open Cast Nochten, 2nd Lausitzer Main Seam, Miocene, kindly supplied by Claudia Niemtz from Vattenfall AB, was distributed to the members earlier this year, for maceral analyses and reflectance measurements, along with a set of photomicrographs. Samples have been provided to participants crushed but not set. **The objective of the round robin exercise is to perform maceral analyses on both samples to the maceral type level.** Analysts also asked to note their level of experience in lignite analyses, e.g. high, low, never seen one in my live. Deadline for submitting the result is 30th September. However, if more applicants for samples can be found, this may be extended for them. **Walter will provide a report of the 2017 activities on the next meeting.**

Anyone interested to participate to the 2016 RIC please send an email to Walter walterpickel@optusnet.com.au.

During the discussion some participants asked about the goal of the exercise: the rationalization of the classification or preparation for different accreditation process for lignite? Paul Hackley pointed that lignite classification was published in 2005. Stavros mentioned that apart for validating our classifications, it is a step forward to a potential Accreditation Program in low-rank coals, as it was decided in 2015 in Potsdam. Angeles mentioned that the samples are quite difficult and hence perhaps not so proper for Standardization WG, and it would be useful to have some pictures of problematic macerals from previous exercises. Difficulties in huminite identification in comparison with vitrinite were pointed out by Rıza Görkem Oskay.

Commission I thanked and congratulated Walter for his dedication in conducting the Standardization round robin exercises.

Reflectance & Terminology of Zooclasts in old sediments WG – Thomas Gentzis

Stavros presented on behalf of Thomas Gentzis the activities and the sample preparation progress for the 2017 Round Robin exercise within the Reflectance & Terminology of Zooclasts in old sediments WG. The graptolite-bearing sample was kindly provided by Dr. Deolinda Flores, University of Porto. Based on the sample weight, it was clear that the material was of sufficient quantity to prepare a total of twelve (12) samples. The original sample was crushed to -20 mesh (840 micrometers) and sieved to ensure that the 12 splits were homogenous. Twelve blocks were polished following ICCP procedures. Approximately 20 members have expressed an interest to participate in the analysis. Samples will have to be shared among the participants. About half of the participants have already received polished blocks to examine and report the features of Zooclasts and their reflectance values. The rest will receive the samples in October, along with instructions. Analysts are kindly requested to complete the analysis and submit the results to Thomas Gentzis by the end of January 2018. Results will be compiled, reviewed, analyzed, and shared with the participants early next year. Results of the RR study will be reported at the next ICCP meeting.

Additional members signed in Bucharest to participate in the Round Robin study. Anyone interested, please contact Thomas (Thomas.Gentzis@corelab.com).

Commission I thanked Thomas for his efforts in convening this WG.

Suberinite WG – Peter Crosdale & Antonis Bouzinos

Peter Crosdale presented the results of the 2016 Suberinite exercise. Participants got two polished blocks of the Jurassic Walloon Coal Measures, Surat Basin, Qld for analysis. Tasks of the exercise were:

Mandatory – do a point count following ICCP Nomenclature,

Optional, depending on time and resources

Vitrinite reflectance measurements

Images – hopefully annotated

Fluorescence images / observations

Comparison of data between analysts was compromised by sub-sampling issues. The work will continue with new sample set prepared in a different manner to ensure better representivity.

During the discussion participants expressed their difficulties in identification of suberinite, as well as in collotelinite/ulminite A and B. Since some participants used the huminite group terminology a discussion was conducted among Stavros, Georgios Siavalas, Angeles Borrego, Petra David and Peter regarding the usage of Huminite or Vitrinite terminology for materials with lower than 0.5% reflectance values. Stavros and Rıza Görkem Öskay commented that Tertiary low rank coals could also be included in the future exercises, despite the differences between Jurassic and Tertiary coals.

Ten members expressed their interest to participate in the 2017 Exercise, however, anyone interested in participating please contact Peter (peter.crosdale@energyrc.com.au). All the relative documentation of the WG is available on the ICCP webpage (<http://www.iccop.org/workinggroup/suberinite>).

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

Microscopy session

At the afternoon microscopy session, the attendees examined xylite-rich lignites presented by Georgeta Predeanu. Commission I would like to thank Georgeta, and Mr. Christian Ciohodaru “temco Company”, Bucharest, Romania, for providing an Olympus equipment for the Microscope sessions.

The Commission I continued their work at 9:00 on Wednesday 6th of September.

Xylite-rich Lithotype Classification WG – Giannis Oikonomopoulos

Stavros presented on behalf of Giannis the activities of the WG that was established in 2015. The objective of this WG is to develop a Classification scheme for Xylite-rich lithotypes of low-rank coals. The aims of the 2nd year exercise are focused on macroscopic description of xylite. The exercise included 98 figures of xylitic material:

78 figures of hand specimens from Greece (mainly) and Poland (exercise Part I).

20 figures from the field from Greek xylite dominated successions (exercise Part II).

The main purpose of the exercise is to discuss and choose the valuable parameters applicable for classification of xylite-rich lithotype of lignite. Thus, the exercise was proposed to be accomplished on a free description basis (without restrict guidelines). Various parameters, which are used internationally in controlling each classification system, were suggested to participants to facilitate the description of the xylitic material. Extra field for additional parameters proposed by the participants was also available. Only four (4) participants accomplished the exercise till now, whereas 5 at least additional participants are expected to accomplish the exercise by the end of 2017. Comparing data between analysts, Giannis conclude that not all parameters are applicable for each sample. Colour terminology needs definition. The parameters Colour, Gelification, Fusinite, Layer, Mineral matter, and Vol. % contribution, seems valuable and applicable for classification nomenclature. Extensive discussion is needed concerning “Vol.% contribution” parameter. Although this parameter was extensively used, however large discrepancies were observed. Definition of the parameter “layer” is needed. “Concentrations” are proposed to be placed as a 3rd subdivision of “Fusinite” parameter. “Roundness” parameter was not applicable for xylite description. The use of inequality symbols, introduced by one participant, are very useful. “Fatigue” parameter was extensively used, suggesting applicability for nomenclature purposes.

The exercise will continue until the end of 2017 (more participants will be involved and thus, more results will be included in the final evaluation). Discussion on the obtained results will follow. For the next activities Giannis suggest creation of a map showing the occurrence of xylite-dominated deposits in eastern Europe – western Asia including the age of each deposit. Contribution to the ICCP database with photomicrographs of woody materials, and writing of proposal as an addition to the existing nomenclature (handbook?).

During discussion the participants suggested that the Guidelines for the exercise should be explained in detail, with limited number of pictures. Stavros also suggested to include core samples for next exercises, because of obvious differences in determination in comparison with channel samples. Georgeta pointed that Romania has its own classification and could contribute to the exercise.

Anybody interested to participate in the activities of this WG

please contact Giannis (giannis@metal.ntua.gr).

Commission I would like to thank Giannis for his initiative and efforts in this Working Group.

New Methodologies and Techniques in Organic Petrology WG- Lila Gurba

The WG was established at the 52nd ICCP meeting in Rio de Janeiro (2000) with aim to provide an update on novel and new methods and techniques that can be applied to Coal and Organic Petrology. Lila Gurba presented an overview of the Handbook of Instrumental Techniques Applied in Coal and Organic Petrology: X-ray Computed Tomography (Micro-CT) and Positron Annihilation Spectroscopy (PAS) Techniques and their Applications in Coal and Organic Petrology. Lila discussed the principles and the significance of the micro-CT and provided examples on how we can get value by implementing the technique. Micro-CT has a unique ability in resolving pores and grain structures, as well as both vertical and horizontal heterogeneity. The main applications presented included the studies of shale properties, CO₂ sequestration studies, as well as characterization of coal microstructure and porosity. The presentation is available on ICCP webpage. In the presentation on the Positron Annihilation Spectroscopy (PAS) Lila outlined the principles and the significance of this very sensitive technique to characterise open -volume defects (pores, vacancies, vacancy clusters). PAS is a non-destructive technique. It can resolve size, concentration and distribution of free volume holes and depth or sampling volume. Recent applications include the studies of Barnett shale. Commission I encourage 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 (l.gurba@unsw.edu.au) during the year.

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

Petrographic Image database – Petra David

Petra David and Stavros Kalaitzidis reported on recent developments of the ICCP Image Database. They presented past activities of the working group and future plans. During the discussion members pointed out that images from various WGs e.g. Qualifying WG, Concentration of Organic Matter WG, as well as from DOM Atlas could be incorporated.

Prior to the meeting, Stavros had been in contact with Silk Tech, the company that already runs the ICCP website. They provided a cost estimation for an image database with a number of predefined features related to architecture and design. In principle two main options exists to implement such a database: 1: Custom, i.e. built from scratch and 2. CMS, i.e. using existing software (e.g. Wordpress, Drupal). The estimated costs for such an implementation range from 10 k€ for Drupal, 15 k€ for Wordpress to 25k€ for Custom development. To proceed with the database development during the coming year, Stavros and Petra asked Com I members to agree to spend a maximum amount of 15 k€ for the development of the database. Some participants expressed their disagreement with spending the

estimated costs. It was decided that this request should go to the General Assembly for approval at the Closing Plenary Session. The request was put to a vote at the GA on Thursday 7th of September and was rejected (see Minutes of GA). It was the general opinion that the ICCP Image database should be based on commercially available software. Suggestions were given to potentially reduce costs. Pola Khanaqa pointed out that in India the costs for database development are much lower. Jolanta Kus described the BGR image database that was recently developed and it was agreed that Petra will visit BGR until the end of the year to investigate if the BGR version can also work for ICCP. Members are also requested to contact Stavros or Petra if they can assist to provide more information on (costs of) image databases.

Commission I thanked Petra and Stavros for their efforts and dedication on this work.

New Handbook Editorial Group – Petra David, Ivana Sýkrová, Isabel Suárez Ruiz & Kimon Christianis
 Petra David discussed the present situation of the New Handbook. The activities around a new Edition slowed down during the last years, pending for a decision in relation to the ICCP copyright issues. At the 2016 meeting, council decided that parts of the ICCP Handbook should be published as an ‘open access’ publication with the names of the contributing authors followed by the name of ICCP as author. With this arrangement, a New Handbook Edition becomes obsolete.

To honour the efforts and work done with the old Handbook Editions, Petra suggested to re-arrange the digitized text to the previously proposed format, so that apart from the original Handbook Editions, the information becomes also available in a more user friendly way. It was suggested to link the different sheets to a content table for reading and/or download.

It was also reminded that the old Handbooks are already scanned and uploaded on the open part of the webpage <http://www.iccop.org/publications/iccp-handbook/> for everybody to download.

Commission I thanked Petra, Isabel, Ivana and Kimon for their efforts on the Handbook, as well as all the volunteers that participated in the previous activities.

New Handbook - Application of TEM and SEM Chapter - Barbara Kwiecińska, Sławomira Pusz and Brett J. Valentine
 Stavros presented the revised MS of the New Handbook - **Application of TEM and SEM Chapter** authored by Barbara Kwiecińska, Sławomira Pusz and Brett J. Valentine. After the addition of the “Shales Chapter” in November 2016 the manuscript was uploaded in the webpage for 8 months for the review stage. Stavros asked the Members of Com I for any additional comments and to approve the chapter to put on vote

to the GA on Thursday and to be published in the International Journal of Coal Geology. Com I forwarded the final version of the **Application of TEM and SEM Chapter** to the GA for approval.

Commission I would like to express their gratitude to the authors for their efforts and patience to deliver this very important section of the Handbook.

Closing Remarks

Stavros Kalaitzidis and Dragana Životić closed the Session of Commission I.

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

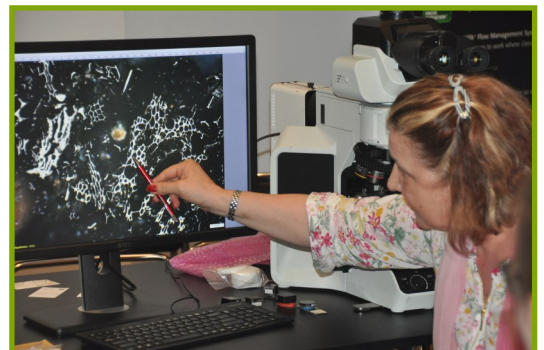
⇒ **Single Coal Accreditation Program, SCAP** – Kimon Christianis (christan@upatras.gr).

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

Commission I would like to encourage ICCP members to visit the webpage, since a lot of data and information from the WGs has been uploaded <http://www.iccop.org/commissions/commission-i/>. Also, the convenors of the various WGs are encouraged to check and update regularly the web material.

Com I would like to thank the convenors for their dedication and efforts to run the WGs, and encourage ICCP members to participate in Commissions Exercises.

Finally, Commission I would like to thank Georgeta Predeanu and her team and all the participants of the sessions for their active participation resulting in well organised and productive Meeting.



COMBINED MICROSCOPIC SESSION USING AN OLYMPUS MICROSCOPE SYSTEM.
 PLEASE ALL REMEMBER TO BRING ALONG SAMPLES FOR VIEWING AND DISCUSSION

SOCIAL PROGRAMME AND FIELDTRIP, ROMANIA

The social program was initiated on Sunday afternoon with an ice break party at the Foyer of the Romanian Academy Library. Here we had the first chance to interact with each other, and to thank the organizers for the efforts to host us. Opportunities to network, form new friendships, and to catch up with old friends continued during the meeting as lunch was provided every day by the Organizers. We also had the chance during the week of visiting the Faculty of Geology accompanied by Mihai Popa where we saw the facilities and the impressive collection of fossils and stones which is available for students exhibited in the windows of the corridors.

The ICCP Conference Dinner took place on Thursday afternoon, after the sessions. Before the dinner we made a short tour through emblematic places of Bucharest and gained insight into the complex history of the country and city. The Dinner venue was in a beautiful historical building belonging to the Romanian Academy. There we enjoyed a delicious dinner with specialities of Romanian cuisine and snaps from Georgeta's family production. The dinner was livened up by a disc-jockey. Participants were expected to dance after the dinner and we certainly did (Ed: see the photographs on p...25). It was a great experience with a lot of fun.

The Fieldtrip started on Saturday early in the morning and covered a fantastic mixture of historical visits comprising of Romanian culture and traditions and geology. Everything occurred in Prahova County, a district rich in oil and coal production.

The geological aspects were covered by the visit to the

Filipeștii de Pădure open cast mine, belonging to the Pliocene Dacian Basin, where we had the chance to touch and view the xylite-rich coals and take samples.

One of the most impressive experiences I ever have lived with geological sites was the visit to the Unirea underground salt mine in Slănic-Prahova, a real temple of salt with internal folds within a Miocene salt structure. The geologic experience was completed with The Salt Mountain, a geological Site of Special Scientific Interest (SSSI) where locals were enjoying the muds and swimming in the lake and the Pietra Verde/Green Stone outcrop belonging to the Badenian Slănic Formation, lower molasse.

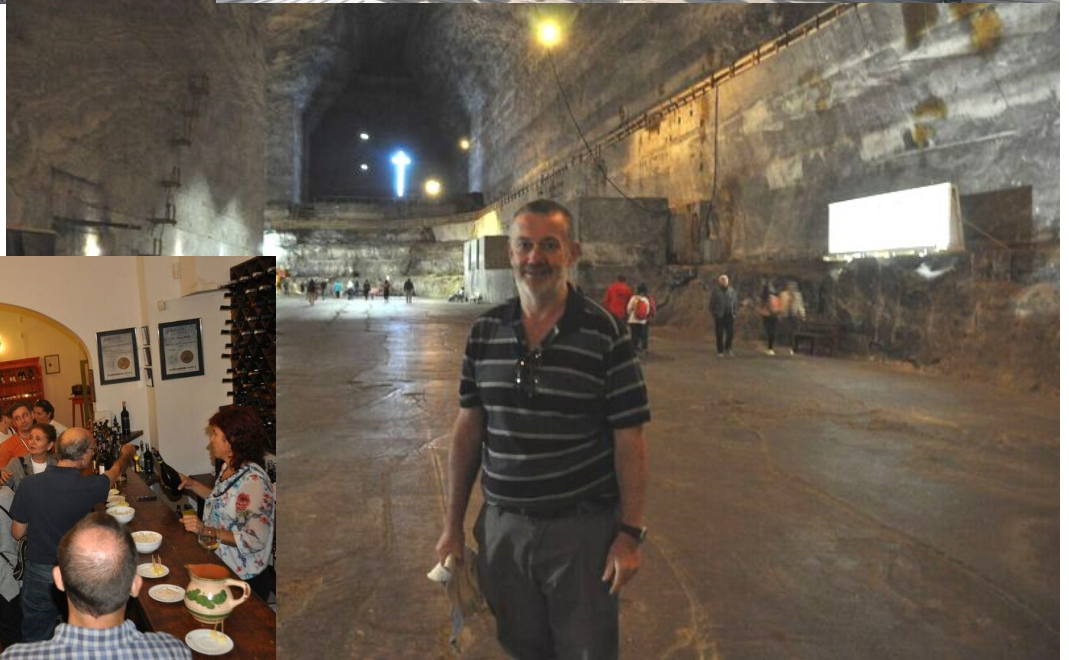
The historical and cultural aspects were covered by the visit to the Zamfira Christian Orthodox monastery built in 1743 and severely damaged by the earthquakes of 1940 and 1977, and by the visit to the Bellu Manor in Urlați, the residence of an aristocratic family built in the XIXth Century in classical Romanian style. The rooms and furniture of the House are perfectly preserved and illustrate the life in the nineteenth century. This is a popular place for wedding photographs and we also had the chance to observe some of the sessions.

The gastronomic experience was in a very nice traditional restaurant where a variety of traditional Romanian specialities were served. The location close to the Salt Mountain allowed enjoying both experiences at the time. We also celebrated here Paul Hackley's birthday, Congratulations!! The day finished with a wine probe in Urlațeanu Cellar where we tasted a variety of Romanian wines and thanked the organizers for a day full of unforgettable experiences.

Contribution from Angeles



Field trip photographs courtesy of Peter Crosdale



New Applications for Associate Member



Dr. Izabela Maris (A1,2)
Romania

Faculty of Geology and Geophysics,
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Dr Maris completed her PhD degree in the Faculty of Geology and Geophysics after a change of career from nursing. She is currently a lecturer at the University of Bucharest (Romania). And works on sedimentology , mineral deposits, petroleum systems., including Romanian hydrocarbon reservoir evaluation studies. Izabela attended the 2017 ICCP Meeting, where her application was accepted.

WELCOME AND CONGRATULATIONS

Applications for Full ICCP Member



We welcome Dr Alok Singh from India as a Full Member of the ICCP.

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

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

Updated contact details

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e-mail: walter.pickel@organicpetrology.com

HAPPY BIRTHDAY



HAPPY BIRTHDAY, PAUL!
Paul celebrated his birthday during the ICCP field trip in Romania, surrounded by ICCP Colleagues.

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

Obituary

Geoffrey Hamlet Taylor, a Thiessen medalist, the ICCP's first Honorary Member and an innovative researcher into the petrographic structure of coals, cokes and carbons, died on October 7th in Canberra, Australia.

Taylor's Dr. rer. nat. was acquired at the University of Bonn under the direction of Erich Stach and his DSc from the University of Melbourne. His working career began earlier with the Geological Survey of South Australia; during that time Geoff learned coal geology and petrology from Charles Marshall and John Dulhunty at the University of Sydney.

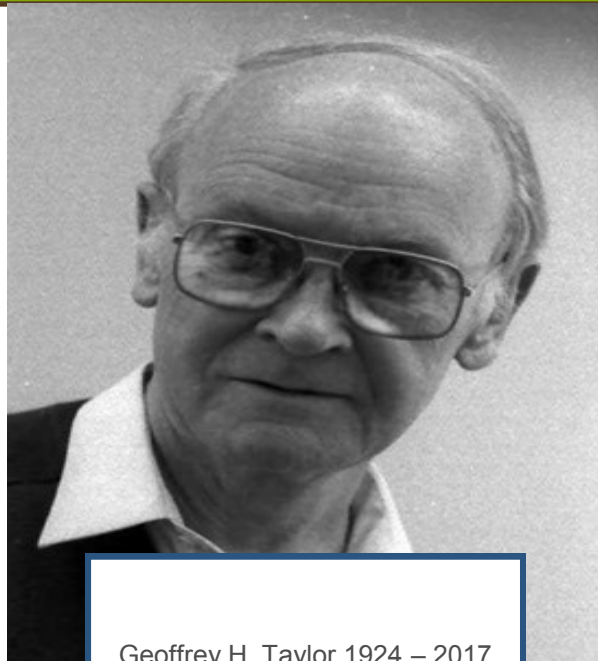
In 1955 Geoff began a lengthy and remarkable tenure at CSIRO, first of all in what later became the Division of Coal Research at North Ryde where he assembled an accomplished group of coal petrologists including Alan Cook, Michio Shibaoka, Alan Bennett and Michelle Smyth.

Dr Taylor's abilities resulted in his ascension at CSIRO with leadership roles in the Geochemistry Section in the Division of Mineral Chemistry, the Department of Mineralogy and the Fuel Geoscience Unit. This last unit was established to develop techniques for use in petroleum and gas exploration in Australian basins and the evaluation of coals for industrial uses.

In 1980 Dr Taylor became Director of the Centre for Resource and Environmental Studies with the rank of Professor at the Australian National University (ANU). This centre employed a multidisciplinary approach and so brought the expertise of fields other than science, such as medicine and law, to bear on resource and environmental issues.

In 1982 Taylor returned to CSIRO as a member of its Executive in Canberra. His selection for this post concerned with all branches of governmental research in Australia was recognition of his outstanding abilities as a researcher and leader. Prof Taylor also held the post of Professor Emeritus at ANU at this time and in 1986 was appointed Visiting Fellow at the Research School for Earth Sciences; during the later years of his distinguished career he continued personally to make significant advances in coal and carbon science.

Taylor's applications of optical and electron microscopy spanned the fields of coal and carbon science. His contributions included the discovery of anisotropic



Geoffrey H. Taylor 1924 – 2017

mesophase spheres in natural coke. Subsequent studies, involving both optical and electron microscopy, demonstrated that the same structures were formed in laboratory and industrial carbonisation of coals and pitches, and he has reported on the formation of fullerenes. Taylor has published on a wide range of subject matter of organic petrological concern including the prediction of metallurgical coke properties, the classification of vitrinites, the origin of sclerotinite and micrinite, and the cold-climate formation of Gondwana inertinite. He was a co-author and one of the translators for the second and third editions of Stach's Textbook of Coal Petrology and the lead author and editor of the subsequent book Organic Petrology.

Geoff Taylor served the ICCP as Secretary of the Nomenclature Committee in the mid-1960s and, having received the Thiessen Medal in 1997, was on the Medal's nominating committee for several years. He was a passionate advocate for our science, and among his many fine personal attributes he will be remembered by his contemporaries for his low-key style of verbal presentation and the clear and effective promotion of his viewpoints. In an article commemorating the 50th ICCP meeting Geoff recounted his experiences at early meetings in the 1950s. He noted that some of the discussions were heated and often laborious because of the need, in those days, for translations into multiple languages. It is obvious that his language and diplomatic skills helped in the foundation and lasting success of the ICCP.

Alan Davis

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

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

Single Coal Accreditation Program (SCAP) for both maceral group and vitrinite random reflectance analyses. In this program the ability of an analyst to identify and quantify the maceral groups and to identify and measure the vitrinite reflectance of a coal sample according to ISO standards is tested.

Organizer: Kimon Christanis (christan@upatras.gr)

Dispersed Organic Matter Vitrinite Reflectance Accreditation Program (DOMVR). In this program the ability of an analyst to identify and measure the reflectance of vitrinite occurring as dispersed vitrinite in rocks such as carbonaceous shales or hydrocarbon source rocks is tested.

Organizer: João Graciano Mendonça.

(graciano@geologia.ufri.br)

Coal Blends Accreditation Program (CBAP). In this program the ability of an analyst to identify the number of coals in a blend and their petrographic characteristics such as vitrinite reflectance and maceral group composition according to ISO standards is tested. Organic petrology is the only technique able to yield information of the individual component coals within a coal blend.

Organizer: Isabel Suárez-Ruiz (isruiz@incar.csic.es)

The ICCP offers discounts for those participating in more than one accreditation program and has established a procedure to facilitate payments in which a single invoice

will be produced. This requires that participants fill in the **registration form** available in the following link www.iccop.org/accreditation/accreditation-form before the **end of April 2018** in order to expedite the procedures. In addition the timing of the exercises has been spaced to reasonably distribute the analytical load of the participants along the year (Table 1).

Different number of samples are to be analysed in the programs depending on your previous participation. Participants entering SCAP or DOMVR programs or having lapsed for a round, have to analyse six samples, whereas continuation in the program requires the analysis of two samples. For CBAP, new entrants are expected to analyse two samples and continuation requires the analysis of a single sample.

No participation of automatic systems will be allowed in this round.

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

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

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

Magdalena Misz-Kennan
Chair of the Accreditation Subcommittee

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

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

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

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

Members Corner

Members who can supply suitable bulk, single coal samples, for the SCAP Program please contact Kimon: christan@upatras.gr.

Dear all

As convenors of active Working groups in Commission III, it would be much appreciate if you could update the webpage of your WG, taking the following in consideration:

- ⇒ Update of the current activities and objectives of the WG
- ⇒ Brief description of the previous activities of the WG (if applicable)
- ⇒ Update on the members/participants of the WG, even convenors (it can have active and former members)
- ⇒ Selection of **images** to be upload to the WG's webpage
- ⇒ Keywords: 3 to 6
- ⇒ Links to other WG that could be also relevant (if any) and/or accreditation programs (if any).
- ⇒ Additional material (secret part and public).
- ⇒ And other aspects that you think that could contribute for a better webpage

It would be great if we could do the updates during this month (hopefully there will be some free time during holiday season).

Best Regards, Sandra

Commission I would like to encourage ICCP members to visit the webpage, since a lot of data and information from the WGs has been uploaded <http://www.iccp.org/commissions/commission-i/>. Also, the convenors of the various WGs are encouraged to check and update regularly the web material.

Dear Nikki,
thanks for the last ICCP News, interesting as always. One remark to page 4 (know your petrologist):
Professor Dr. Erich Stach was one of the founders of the ICCP, together with Prof. Dr. Robert Potonie. This should had been mentioned at the first place within the ICCP News.

Best wishes Monika Wolf
Kind regards Charlotte Beckers

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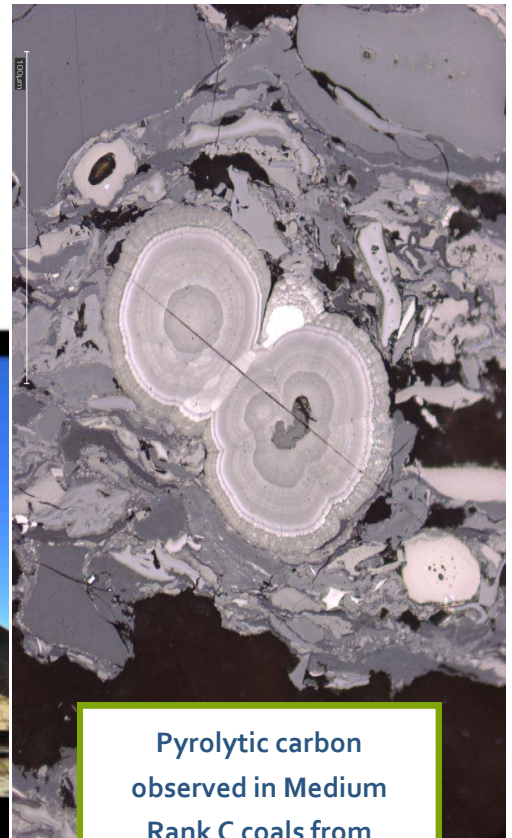
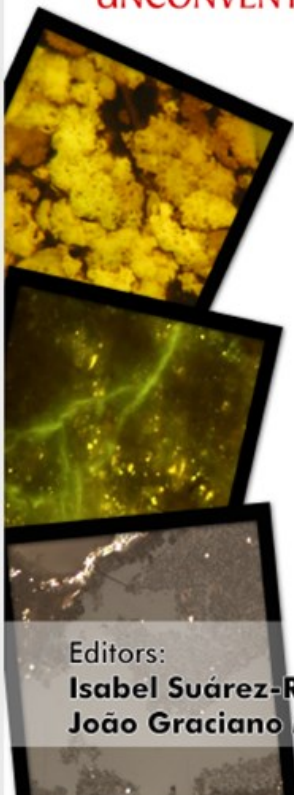
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observed in Medium
Rank C coals from
Hwange Coal Mine,
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Editors:
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ICCP MEETING IN 2018,
TO BE HELD IN BRISBANE
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PROPOSED DATES 23—30
SEPTEMBER



P C C

Thirty-Fifth Annual INTERNATIONAL PITTSBURGH COAL CONFERENCE

October 15-18, 2018

Call for Papers

Abstracts Deadline: March 31, 2018

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Environment

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Closing the Carbon Cycle

3-8 June 2018

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www.gasification-freiberg.com



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ICCP Publications & Training Material

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

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

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

Atlas of Anthropogenic Particles

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

ICCP Training Material on Vitrinite Reflectance Measurements on Dispersed Organic Matter

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

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

Two polished blocks Posidonia & Irati shales & Exel sheet of results from round robin exercises.
Cost: samples & exel sheet 30€ incl. postage (ICCP/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)

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ICCP President
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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:

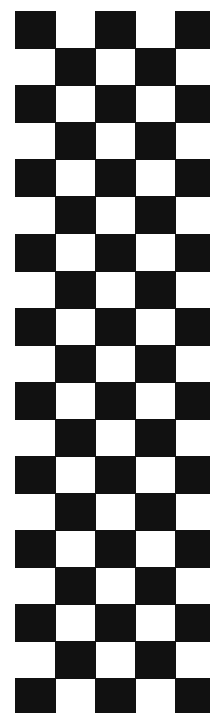
- Dr Walter Pickel, ICCP General Secretary
Coal & Organic Petrology Services Pty Ltd
Unit 3 & 4/328-330 Darling Street
Balmain, NSW 2041
Correspondence:
P.O. Box 672, Rozelle, NSW 2039
tel.: +61-2 -98103970;
mobile: +61 (0)410418756
e-mail: walter.pickel@organicpetrology.com

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



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UPCOMING EVENTS

23-25 March, 2018: Conference on Global Climate (CGC 2018), Guilin, China. [Registration system.](#)

25—28 March 2018: Advanced Energy Materials Congress, The World of Advanced Energy Materials & Technology Stockholm, Sweden. www.vbripress.com/aemc18

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

204 May, 2018. International Conference on Geology and Earth Sciences. Rome, Italy. <http://geoscience.madridge.com/>

3-8 June 2018: 9th Freiberg Conference on IGCC & Xtl Technologies—closing the carbon cycle, Berlin, Germany. Abstracts by 12 January 2018. www.gasification-freiberg.com / gasification@iec.tu-freiberg.de

16-21 June, 2018: RFG 2018 Resources for Future Generations. Abstract submission by 15 January 2018. Vancouver, BC Canada. [Review Technical Program](#)

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

5—7 September 2018: 12th Cardiff, UK 12 ECCRIA Conference. Abstract submission by 26 January, 2018. [Www.eccria-conferences.org](http://www.eccria-conferences.org)

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

15-21 September 2018: XXIX IMPC 2018—International Mineral Processing Congress. Moscow, Russia. www.impc2018.com

15-18 October, 2018. Pittsburgh Coal Conference, Xuzhou, China. Abstracts due 31 March 2018. <http://www.pccpitt.org>



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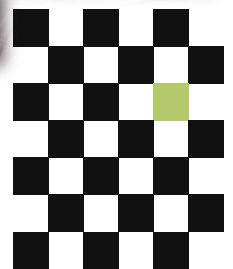
General Secretary mailto: walterpickel@optusnet.com.au
Or visit the website: <http://www.iccop.org>

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