THE ICCP:

WHAT DOES IT DO?

Alan C Cook
WHAT IS IT?

- FOUNDED 1953 AT MEETING IN GELEEN IN HOLLAND
- MAIN PURPOSE WAS TO DEVELOP STANDARDIZATION OF NOMENCLATURE
- RING ANALYSES FORMED AN INITIAL PART OF THE WORK
ICCP FIRST MEETING -1953
INFLUENCE OF FOUNDING MEMBERS
- STILL WITH ICCP

Mackowsky Symposium
in the scope of the 55th ICCP meeting
Wednesday 13 August 2003

The following programme was presented:

9.00 - 9.15 M.J. Lemos de Sousa - Introduction
9.30 - 9.45 C. Diessel - My Doctor Mother Marie-Therese.
9.45 - 10.15 M. Steller, Arendt, P. and Kühl, H. - Development of the applied coal petrology at the Bergbau-Forschung/DMT during the last 50 years.
10.15 - 10.45 J.C. Hower, K.W. Kuehn and B.K.

ABSTRACTS

Production of High Quality Metallurgical Cokes from Inertinite Coals in non-recoke Ovens

Alan C. Cook¹, Rex Wright² and GL
¹Keiraville Konsultants Pty. Ltd., 7 Keiraville, NSW 2500 Australia
mailto:acc@ozemail.com
²Illawarra Coke Company

Coals from the SouthernCoalfield area are generally within or close to the optimum range of vitrinite reflectance (R_v, max 1.0 to 1.42 %) for the production of high quality metallurgical cokes. The reserves of coal are within the Bulli
INITIAL ACHIEVEMENTS

• BROUGHT TOGETHER A HIGH PROPORTION OF WORKERS ON COAL PETROLOGY
• BY 1957 HAD DEVELOPED STANDARDIZED TERMINOLOGY - 1ST ED HANDBOOK
• 2ND ED, 1ST SUPPLEMENT - 1963 GLOSSARY IS STILL A MAJOR REFERENCE
• 1975 2ND ED 2ND SUPPLEMENT
• 1985 SUPPLEMENTS TO 2ND ED
• 1993 2ND ED 3RD SUPPLEMENT
DEVELOPMENT

• ADDITION OF TWO COMMISSIONS
• CHANGE OF CONDITIONS FOR MEMBERSHIP
• CHANGE OF NAME TO ICCOP
• REVISION OF MACERAL GROUPS
• INTRODUCTION OF ACCREDITATION
• SERVICES TO PETROLOGISTS
AIMS AND OBJECTIVES

• The Association shall be a non-profit making body. Its objects shall be

• (a) to secure the continuing international exchange of scientific information relating directly or indirectly to organic petrology and

• (b) to develop and publish definitive descriptions and methods in furtherance of object 2(a).
STYLE OF MEETINGS AND OF ICCP WORK

• ICCP depends on volunteer work from its members
• Essentially most (all) of this work is unfunded
• Meeting costs have been held as low as possible to assist members to attend meetings
• Originally, the focus was on allowing members from eastern Europe to be able to attend
• Now it is on helping members from developing countries to attend
• Although the financial position of ICCP is robust, funds are nowhere near sufficient either to assist members to attend meetings (single year cost equivalent to 40 years of accumulated funds), or to pay members for their work (single year cost more than twice 40 years of accumulated funds)
RESULTS OF THESE STYLES

1. ICCP IS TOTALLY INDEPENDENT
2. ADVICE FROM ICCP CAN BE SEEN AS BEING BASED PURELY IN COAL SCIENCE
3. OUR PUBLICATIONS ARE WIDELY ACCEPTED
4. ICCP IS TOTALLY INDEPENDENT
IF YOU DEAL WITH ANY OF THESE YOU USE CLASSIFICATIONS FROM ICCP

- MEDIUM RANK COAL
- INDOONESIAN OIL SHALE
- OIL INCLUSIONS IN SANDSTONE
STRUCTURE OF ICCP

• GENERAL ASSEMBLY – ALL MEMBERS ATTENDING A MEETING

• COUNCIL

• EXECUTIVE – Generally used only in emergencies
OVERALL ORGANIZATION

GENERAL ASSEMBLY

COMMISSION 1
NOMENCLATURE

WGs

COMMISSION 2
GEOLOGICAL APPLICATIONS

WGs

COMMISSION 3
APPLIED PETROLOGY

WGs
GENERAL ASSEMBLY 2004 – AT THE MAFI BUILDING
ICCP Council

President
(1999 - 2007)
Dr. Alan C. Cook, Australia

Vice-president
(2003-2007)
Prof. Dr. Lopo Vasconcelos, Mozambique

General Secretary
(2000 - 2008)
Dr. Petra David
The Netherlands

Treasurer
(1997 - )
Dr. Rudolf M. Schwab
United Kingdom

Commissions Chair

1. (2000 - 2008)
Dr. Walter Pickel
Australia

2. Dr. M. Ángeles Gómez Borrego
Spain

3. (1999 - 2007)
Dr. Rosa Menéndez
Spain

Secretary

(2000 - 2008)
Dr. Deolinda Flores
Portugal

(2003 - 2007)
Dr. Mária Hámor-Vidó
Hungary

(2004 - 2008)
Dr. Georgeta Predeanu
Romenia

Editor
(2000 - 2008)
Dr. Peter J. Crosdale
Australia
Other relevant information:

- Past President: Manuel João Lemos de Sousa
- Returning Officer: Harold Smith
- Honorary Auditor: Alan Davis
- R Thiessen Award Committee: Chair: Marc Bustin
- Organic Petrology Award Committee: Chair: Marc Bustin
- Young Scientist Award Committee: Chair: Alan Cook
- Webmaster: David E. Pearson / Dirk Prinz
  (starting in November 2006)
- Archives: Faculdade de Ciências, Universidade do Porto
  Dr Deolinda Flores
- Handbook Administration: Petra David
MEMBERSHIP BY CONTINENT

- **CONTINENT**  Number  %  
- Africa         6     3.3  
- Asia           25    13.6  
- Australasia    33    17.9  
- Europe         88    47.8  
- North America  25    13.6  
- South America  7     3.8   
- **TOTAL**      184   100.0
Distribution of Members

- **Membership Summary by Country**
  - Australia 27, Norway 2
  - Austria 1, PR of China 3
  - Brazil 5, Peru 1
  - Bulgaria 1, Poland 12
  - Canada 9, Portugal 7
  - Czech Republic 2, Republic of Korea 1
  - Denmark 1, Romania 3
  - France 5, Russian Federation 2
  - Germany 19, Serbia 3
  - Greece 8, South Africa 5
  - Hungary 2, Spain 8
  - India 6, Taiwan 1
  - Indonesia 2, Thailand 1
  - Ireland 1, The Netherlands 5
  - Japan 4, Turkey 1
  - Malaysia 1, United Kingdom 7
  - Mozambique 1, USA 21
  - New Zealand 4, TOTAL 182

- **Summary by Region**
  - Africa 6
  - Asia 19
  - Australasia 31
  - Europe 90
  - North America 30
  - South America 6
  - TOTAL 182
DEVELOPMENT - 1

- ADDITION OF TWO COMMISSIONS
- CHANGE OF CONDITIONS FOR MEMBERSHIP
- CHANGE TO ICCOP
- REVISION OF MACERAL GROUPS
- INTRODUCTION OF ACCREDITATION
- SERVICES TO PETROLOGISTS
NEW COMMISSIONS

• MUCH OF THE ORIGINAL WORK IS NOW IN COMMISSION 1, “General coal and organic petrology”

• COMMISSION 2, “Application of coal and organic petrology to geology, including prospecting for oil and gas”

• COMMISSION 3, “Application of coal and organic petrology to utilization”
### COMMISSION I

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<th>Name</th>
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<td>General Coal and Organic Petrology</td>
<td></td>
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<td>Accreditation Program</td>
<td>Kimos Christianis</td>
<td><a href="mailto:christian@upatras.gr">christian@upatras.gr</a></td>
<td>Accreditation for maceral groups and vitrinite reflectance</td>
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<tr>
<td>ICCP Reflectance Standard</td>
<td>Walter Pickel David Pearson</td>
<td><a href="mailto:walter.pickel@ozemail.com.au">walter.pickel@ozemail.com.au</a> <a href="mailto:dpearson@coalpetrography.com">dpearson@coalpetrography.com</a></td>
<td>Availability of ICCP agreed YAG standard</td>
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<td>Standardization</td>
<td>Harold Read</td>
<td><a href="mailto:harold.read@petrology.com">harold.read@petrology.com</a></td>
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<td>Temporal Variation of Coals</td>
<td>Lopo Vasconcelos</td>
<td><a href="mailto:lopo@uninet.co.mz">lopo@uninet.co.mz</a></td>
<td>Summary of variation in coal compositions with age</td>
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<td>Sample Preparation Techniques</td>
<td>David Pearson</td>
<td><a href="mailto:dpearson@coalpetrography.com">dpearson@coalpetrography.com</a></td>
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<tr>
<td>New Methodologies and Techniques in Organic Petrology Handbook Editorial Groups</td>
<td>Lila Gurba Regina Schäfer</td>
<td><a href="mailto:Lila.Gurba@ccsd.biz">Lila.Gurba@ccsd.biz</a> <a href="mailto:r_c_schaefer@yahoo.de">r_c_schaefer@yahoo.de</a></td>
<td>Appraisal of new techniques</td>
</tr>
<tr>
<td>Liptinite</td>
<td>Walter Pickel</td>
<td><a href="mailto:walter.pickel@ozemail.com.au">walter.pickel@ozemail.com.au</a></td>
<td>Outline finalized. Some major parts ready for inclusion.</td>
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COMMISSION I

- ACCREDITATION
- ICCP REFLECTANCE STANDARDS
- STANDARDIZATION
- TEMPORAL VARIATION IN COALS
- SAMPLE PREPARATION TECHNIQUES
- NEW METHODS & TECHNIQUES IN Org Pet
- NEW HANDBOOK ED GROUP
- LIPTINITE
- HARD COAL LITHOTYPES
COMMISSION 1 CONT

• HUMINITE
• BITUMENS GRAPHITE SEMI-GRAPHITE AND NATURAL COKE
• PYROLYITIC CARBONS
• NATURAL CHARS
• HANDBOOK ED GROUP
• OXIDATION
COMMISSION 2

- CLASSIFICATION OF DOM
- ENVIRONMENTAL APPLICATIONS
- COAL FACIES
- THERMAL INDICES
- ANALYSIS BY MICRO-PROBE
- COALBED METHANE
- ACCREDITATION FOR VITRINITE REFLECTANCE IN DISPERSED ORGANIC MATTER (DOMVR)
COMMISSION 3

• COAL BLENDS ACCREDITATION
• ENVIRONMENTAL APPLICATIONS
• COMBUSTION
• INERTINITE IN COMBUSTION
• COKE PETROGRAPHY
• AUTOMATION
• IMAGE ANALYSIS
• STRUCTURAL ORDER BY REFLECTANCE, XRD AND TEM
• ASH
DEVELOPMENT – 2 - MEMBERSHIP

• ADDITION OF TWO COMMISSIONS
• CHANGE OF CONDITIONS FOR MEMBERSHIP
• CHANGE TO ICCOP
• REVISION OF MACERAL GROUPS
• INTRODUCTION OF ACCREDITATION
• SERVICES TO PETROLOGISTS
CHANGES IN MEMBERSHIP

• ASSOCIATE MEMBERSHIP INTRODUCED

• CONDITIONS FOR FULL MEMBERSHIP WERE MADE RELATIVELY STRICT
DEVELOPMENT – 3 - NAME CHANGE

- ADDITION OF TWO COMMISSIONS
- CHANGE OF CONDITIONS FOR MEMBERSHIP
- CHANGE TO ICCOP
- REVISION OF MACERAL GROUPS
- INTRODUCTION OF ACCREDITATION
- SERVICES TO PETROLOGISTS
DEVELOPMENT – 4 - REVISION OF MACERAL GROUPS

• ADDITION OF TWO COMMISSIONS
• CHANGE OF CONDITIONS FOR MEMBERSHIP
• CHANGE TO ICCOP
• REVISION OF MACERAL GROUPS
• INTRODUCTION OF ACCREDITATION
• SERVICES TO PETROLOGISTS
REVISION OF MACERAL GROUPS

• WIDESPREAD RECOGNITION BY 1990 THAT MAJOR REVISIONS WERE NEEDED
• THESE COMMENCED IN 1992
• PUBLICATION STARTED IN 1996 AND REVISIONS ARE CITED AS ICCP SYSTEM 1994
• LIPTINITE IS THE LAST GROUP – ALMOST COMPLETE!
• NEXT – A NEW HANDBOOK
DEVELOPMENT – 5
ACCREDITATION

• ADDITION OF TWO COMMISSIONS
• CHANGE OF CONDITIONS FOR MEMBERSHIP
• CHANGE TO ICCOP
• REVISION OF MACERAL GROUPS
• INTRODUCTION OF ACCREDITATION
• SERVICES TO PETROLOGISTS
ACCREDITATION - INTRODUCTION

• PRESSURE FROM 1986 AS A RESULT OF ECE COAL CLASSIFICATION SYSTEM
• A NEED TO DEMONSTRATE THAT PETROGRAPHIC ANALYSES HAVE ACCURACY AND PRECISION
• INITIAL SUGGESTIONS WERE THAT THIS WAS NOT A SUITABLE ACTIVITY FOR ICCP
• BUILT ON LONG HISTORIES OF WORK, STANDARIZATION WG
• NOW EXPANDED WITH BLENDS AND DOMVR
ACCREDITATION - IMPLEMENTATION

• START OF ANALYSES IN 1992-93
• APPRAISAL METHODS AGREED IN 1994/95
• FIRST ACCREDITATIONS MADE IN 1995 – 34/35 ANALYSTS
• IN 2006, SAMPLE SETS SENT TO 84 ANALYSTS
• FOR THE 2006 ROUND, AT 3 Aug 2006, 80 SETS OF ANALYSES RETURNED
• DETAILS OF METHODS USED ARE SET OUT ON THE WEB PAGE: www.ICCOP.org
ACCREDITATION – CURRENT STATUS

• HIGHLY SUCCESSFUL PROGRAM
• MAJOR PROGRAM
• SIGNIFICANT EFFECT OUTSIDE COAL PETROLOGY SPECIALISTS
• EXPECTED BENEFITS LARGELY ACHIEVED
• ADDITIONAL UNEXPECTED BENEFITS
COAL FROM ACCREDITATION PROGRAM

- WIDE RANGE OF RANK AND TYPE
COAL FROM ACCREDITATION PROGRAM

• WIDE RANGE OF RANK AND TYPE
ACCREDITATION – UNEXPECTED OUTCOMES

• DEFINED ACTUAL REPRODUCIBILITY VALUES FOR V% AND VITRINITE REFLECTANCE% THAT ARE GENERALLY BETTER THAN HAD BEEN ASSUMED

• BECAME CLEAR THAT STANDARDS ARE A MAJOR SOURCE OF VARIATION IN VITRINITE REFLECTANCE DATA

• THIS LEAD TO THE ICCP STANDARDS SERVICE
A GOOD THING!

• THE NEW ISO COAL CLASSIFICATION BY ISO IN 2005 (ISO 11760) IS PETROLOGY BASED

• THIS WOULD NEVER HAVE HAPPENED PRE-ACCREDITATION

• THE MAIN NEGATIVE IS THE STANDING OF ICCP – IT IS AN INFORMAL BODY

• RECOGNITION BY (FOR EXAMPLE) ISO IS REALLY A GRACE AND FAVOUR ISSUE
MORE OF A GOOD THING?

IN 2006 ICCP INTRODUCED NEW ACCREDITATION PROGRAMS IN:

• BLEND ANALYSIS (17 ANALYSTS); AND
• WILL START BEFORE END OF 2006
• VITRINIT REFLECTANCE FOR DISPERSED ORGANIC MATTER (37 ANALYSTS)
• NOW RUNNING FOR 2006
ICCP

- 53 YEARS OF ACTIVITY
- ORGANIZATION OF WGs
- MEMBERSHIP NOW WIDELY SPREAD
- 184 MEMBERS, AT PRESENT NONE OF THEM RESIDENT IN ANTARCTICA!
- SOMETIMES ICCP DOES APPEAR GLACIAL, BUT MAJOR CHANGES HAVE OCCURRED AND WILL CONTINUE TO OCCUR - DON’T BE FOOLED!!
ICCP -2

• ACHIEVEMENTS IN STANDARIZATION OF TERMINOLOGY AND PUBLICATION OF CLASSIFICATIONS AND DEFINITIONS
• REVISION OF INITIAL DEFINITIONS NOW NEARLY COMPLETE
• ACCREDITATION IS A NEW AND MAJOR DEVELOPMENT WITH POTENTIAL FOR IMPROVING DATA QUALITY THAT INDUSTRY HAS ONLY PARTIALLY REALISED
• MORE GENERAL SERVICES COULD DEVELOP FURTHER
ICCP – WHERE NOW?

- NEW HANDBOOK NEEDS TO BE COMPLETED
- BY WHICH TIME ANOTHER REVIEW OF THE MACERAL GROUPS COULD BE DUE
- ACCREDITATION IS A MAJOR ACTIVITY OF PRIME IMPORTANCE TO ALL ORGANIC PETROLOGISTS
- IT IS LIKELY THAT THE ACCREDITATION PROGRAMS WILL HAVE A REVOLUTIONARY EFFECT ON ORGANIC PETROLOGY
ICCP AND YOU

• IF YOU ARE NOT A MEMBER, YOU SHOULD JOIN, THERE ARE MANY ADVANTAGES

• IF YOU ARE A MEMBER, PLEASE CONTRIBUTE AT THE WG, COMMISSION AND GENERAL ASSEMBLY LEVELS

• IF YOU WORK IN THE COAL INDUSTRY YOU SHOULD BE AWARE OF THE VALUE OF THE WORK OF ICCP TO MANY ASPECTS OF COAL MINING AND COAL USE

ACC 26 Aug 2006
AND IF YOU THINK IT HAS ALL BEEN DONE –

WHY NOT NAME THESE!