

CCOP-DANIDA
Institutional Capacity Building Project ICB-CCOP1
Training Course on Organic Geochemistry and Petrology in
Petroleum Exploration
11-14 September 2006, Beijing, China

Date and Venue:

The training course was held in Beijing, China from 11th to 14th September 2006 at the Minzu Hotel. Minzu Hotel (in Beijing) Address: 51 Fuxingmennei St. Beijing 100031, China
Tel:86-10-66014466, Fax:86-10-66014849 Website: <http://www.minzuhotel.cn/>
Local Organizer: Qingdao Institute of Marine Geology, CGS

Participants:

Nineteen (19) geoscientists from Cambodia, China, Indonesia, Korea, Malaysia, Papua New Guinea, The Philippines, Thailand and Vietnam, nine (9) CCOP Member Countries attended the training course. Among them, nine (9) participants are female.

The detailed list of participants is attached as Annex 1.

Program:

The training course is designed for knowledge transfer on organic geochemistry and petrology, especially for the parameter preparation of the basin modelling for the project case study. The two distinguished lecturers from GEUS were invited as the resource persons. The detailed program of the training courses are provided as Annex 2.

Background of the Training Courses:

The organic geochemistry and petrology in petroleum exploration training is a planned training course as requested from CCOP Member Countries during the implementation of the ICB-CCOP1 Project. The course is directed to geologists who have some experience with source rock geology and hydrocarbon characterisation, but not to specialists within organic geochemistry and petrology. Focus is placed on the basic understanding of processes and methods and the application and integration of organic geochemical and petrological data in petroleum exploration. Source rock is one of the key issues of the hydrocarbon generation. The better understanding of the geochemical characteristics of sources rock will assist to evaluate the hydrocarbon potential. This training

course also provided a guideline for the preparation of the basin modelling parameters of the ICB-CCOP1 Project case studies. Mr. Ioannis Abatzis, the ICB-CCOP1 Project advisor, helped invite the informative and experienced instructors from Geological Survey of Denmark and Greenland (GEUS) to the training course. This further contributes to the success to the training course.

The objectives of the training course are as followed:

1. To deliver and transfer knowledge on organic geochemistry and petrology in petroleum exploration;
2. To share the existing knowledge experience from previous case study;
3. To exchange the geoscientific views through the discussion during the training course;
4. To enhance the cooperation relationship, establish the academic linkage and develop the friendship among the geoscientists from GEUS and the CCOP Member Countries as well as promoting the future cooperation.

Record of the Training Courses:

At the opening ceremony on the first morning of the training course, as the representative of the local organizer, Mr. Jiang Shijin, Director of International Cooperation Division, China Geological Survey, on behalf of Dr. Zhang Hongtao, Permanent Representative of China to CCOP and Deputy Director General of China Geological Survey, expressed his warm welcome to the participants of CCOP Member Countries who attend this training course (Annex 3). Subsequently, Mr. Niran Chaimanee, Regional Expert / Geo-Environment Sector Manager, of CCOP Technical Secretariat, delivered his welcome speech on behalf of CCOP (Annex 4). Afterward, Mr. Ma Yongzheng, Deputy Permanent Representative of China to CCOP, Deputy Division Director, Department of International Cooperation and Science and Technology, Ministry of Land and Resources addressed his opening remark with brief review of the ICB-CCOP1 Project (Annex 5), then he officially announced the training course opened.

During the three (3) full-day indoor training, led by informative instructors, participants learned not only the basic theory of the organic geochemistry and petrology, but also some experience from some cited case studies. The training courses were composed of three parts: lecture, discussion and exercise. Dr. Jørgen Bojesen-Koefoed and Dr. Henrik I. Petersen are excellent experienced speakers in the field of the organic geochemistry and petrology. Their instructions are very comprehensive and detailed, as well as enjoyable. All the participants were deeply involved in the class, nobody was absent during the 3-day training, and most of them asked the questions interactively to the instructors, especially the participants from China, Indonesia and Malaysia. On the last day of the training, the certificates were issued to all participants. And the evaluation form of the training courses has been distributed to all participants. The evaluation form was very integrative including the content of training, instructor, organizing, accommodation and impact, etc. The feedback were received immediately which would help improving the organizing of the future training courses.

Input of the training course was mainly derived from the knowledge and experience of the two

invited resources persons from GEUS. The knowledge, new technology, and experience were delivered through out the training. Experts' generous contributions were highly appreciated.

Through the common efforts, the training course was very successfully conducted. The direct and indirect outputs are as followed:





- ❖ The organic geochemistry and petrology discipline is introduced to all participants in details so that all participants obtain good understanding of it;
- ❖ All participants have been trained on how to use the geochemical criteria to evaluate the maturity of the source rock for assessing the hydrocarbon potential;
- ❖ The existing knowledge and experience in organic geochemistry and petrology have been shared through the discussion and exercise, the participants can apply them in case study as well as other projects in hand.

The impact of the training course is obvious. All the participants are from the CCOP Member Countries, most of them are young geoscientists while nearly half of them are female participants. The 3-day indoor intensive training brought them the knowledge of organic geochemistry and petrology as well as some experience. As the participants mentioned in their evaluation form, this training met their expectations very well. The knowledge, technology and experience will not only benefit the participants themselves in their work but also their colleagues in their institute in the near future for their research projects. Some of them will apply the knowledge learned from the training to the parameter preparation for basin modeling of the ICB-CCOP1 Project case study. Like most participants mentioned, they are very satisfied with the arrangement of the training course. After three-day indoor training, the last day was arranged for excursion. The local host, CGS, kindly sponsored and arranged all participants to go to the Great Wall, one of the world cultural heritage sites. This activity enhanced the understanding of Chinese culture and developed the friendship among all participants, which promoted the cultural diversity and built harmony within the society of the CCOP Member Countries.






Annex1







**CCOP-DANIDA Institutional Capacity Building Project ICB-CCOP1
Training Course on Organic Geochemistry and Petrology in Petroleum Exploration
11-14 September 2006, Beijing, China**



DISTINGUISHED GUESTS

NAME	POSITION / ADDRESS
<p>1) MR. MA YONGZHENG</p> 	<p>Deputy Permanent Representative of China to CCOP Deputy Division Director Department of International Cooperation, Science and Technology, Ministry of Land and Resources (MLR) No. 64, Funei Street, Xicheng District Beijing 100812, People's Republic of China Tel : (86-10) 6655 8407 Fax : (86-10) 6612 7247, 6655 7932 E-mail : yzma@mail.mlr.gov.cn, ma_yzh@yahoo.com</p>
<p>2) MR. JIANG SHIJIN</p> 	<p>Director, International Cooperation Division China Geological Survey 24 Huangsi Dajie Xicheng District, Beijing 100011 People's Republic of China Tel: (86-10) 5163 2963, Fax: (86-10) 5163 2907 E-mail: jshijin@mail.cgs.gov.cn Website: http://www.cgs.gov.cn</p>
RESOURCE PERSONS	
<p>1) DR. HENRIK I. PETERSEN</p> 	<p>Senior Research Geologist Department of Reservoir Geology Geological Survey of Denmark and Greenland (GEUS) Øster Voldgade 10 DK-1350 Copenhagen K, Denmark Tel: +45 38142455, Fax: +45 38142050 Email: hip@geus.dk</p>
<p>2) DR. JØRGEN BOJESEN-KOEFOED</p> 	<p>Senior Research Geologist Department of Reservoir Geology Geological Survey of Denmark and Greenland (GEUS) Øster Voldgade 10, DK-1350 Copenhagen K Denmark, Tel: +45 38142459, Fax: +45 38142050, E-mail: jbk@geus.dk</p>





LIST OF PARTICIPANTS

NAME	POSITION / ADDRESS
Cambodia	
1) MR. CHEA SOCHEAT 	Deputy Chief Officer Cambodian National Petroleum Authority (CNPA) #13-14 Russian Federation Blvd., Sangkat Kakab, Khan Dangkor, P.O. Box 1442, Phnom Penh, Cambodia, Tel: 85512852780, Fax: 85523986659, E-mail: socheat63@hotmail.com
CHINA	
2) MS. WANG YAN (OWN COST) 	Manager Corporation & Contract Block Exploration Department, CNOOC LIMITED, CNOOC Plaza No. 25 Chaoyangmenbei Dajie, Dongcheng District, Beijing 100010, People's Republic of China Tel: (86-10) 8452 1498, Fax: (86-10) 6460 2563 E-mail: wangyan1@cnooc.com.cn
3) MR. LI DAPENG (OWN COST) 	Senior Geologist CNOOC Zhanjiang Branch Guangdong Zhanjiang Nanyou 3-34-702 People's Republic of China Tel: 0759-3900555, Fax: 0759-3910300 E-mail: lmdp@cnooc.com.cn
4) MR. DONG BENSONG (OWN COST) 	Senior Engineer CNOOC LIMITED No.25 Chaoyangmenbei Dongcheng District People's Republic of China Tel: 010-84522039, Fax: 010-64011987 E-mail: dongbs@cnooc.com.cn
5) MR. LI LI 	Senior Engineer CNOOC, China Limited-Zhanjiang P.O.Box22 ,Potou, Zhanjiang, Guangdong, 524057 People's Republic of China Tel: 0759-3900449, Fax: 0759-3910300 E-mail: lili@cnooc.com.cn
6) MS. YANG JINYU (OWN COST) 	Assistant Researcher Qingdao Institute of Marine Geology 62 Fuzhou Rd., Qingdao, Shandong, 266071 People's Republic of China Tel. +86-532-8577 7428, Fax. +86-532-8572 0553 E-mail: jydd@vip.sina.com

NAME	POSITION / ADDRESS
<p>7) MR. YAN GUIJING (OWN COST)</p> 	<p>Assistant Researcher Qingdao Institute of Marine Geology 62 Fuzhou Rd., Qingdao 266071, Shandong Province People's Republic of China Tel: (86-532) 85755649, Fax: (86-532) 85720553 E-mail: qdyguijing@cgs.gov.cn</p>
<p>8) MS. ZHAO QINGFANG</p> 	<p>Assistant Researcher Qingdao Institute of Marine Geology 62 Fuzhou Rd. Qingdao , Sandong, 266071, People's Republic of China Tel: +86-532-85776406, Fax: +86-532-85720553 E-mail: qingfangzhao@163.com</p>
<p>9) DR. ZHANG LI (OWN COST)</p> 	<p>Professor Guangzhou Marine Geological Survey P.O. Box 1180 NO.188 Guanghai Road, Huangpu Guangzhou 510760, People's Republic of China Tel. +86-20-82250353, Fax. +86-20-82250352 E-mail: zhangli20cn@21cn.com</p>
<p>10) DR. WAN LING</p> 	<p>Senior Geologist Guangzhou Marine Geological Survey P.O. Box. 1180, NO.188 Guanghai Road, Huangpu Guangzhou 510760 People's Republic of China Tel. +86-20-82250361, Fax. +86-20-82250352 E-mail: wangling@163.com</p>
INDONESIA	
<p>11) MR. FRANCISCUS XAVERIUS WIDIARTO</p> 	<p>Head of Organic Geochemistry Group PPPTMGB "Lemigas" (R&D for Oil and Gas Technology) JL. Ciledug Raya Kav. 109, Cipular Kebayoran Lama, Jakarta Selatan, 12230 Indonesia Tel: 62-21-7394422 ext. 1351 Fax: 62-21-72798734 E-mail: fxwidiarto@lemigas.esdm.go.id</p>
<p>12) MR. SUDARMAN SOFYAN(OWN COST)</p> 	<p>ICB-CCOP1 National Coordinator Senior Geologist, PPPTMGB "Lemigas" JL. Ciledug Raya Kav. 109, Cipular Kebayoran Lama, Jakarta Selatan, Indonesia Tel: 62-21-7394422 ext. 1338 Fax: 62-21-7226011 E-mail: sudarmans@lemigas.esdm.go.id</p>

NAME	POSITION / ADDRESS
KOREA	
13) MR. JI HOON KIM 	Researcher Korea Institute of Geoscience & Mineral Resources (KIGAM) Gajeong-dong 30, Yuseong-gu, Daejeon 305-350, Korea Tel: 82-42-868-3276 Fax: 82-42-862-7275 E-mail: save@kigam.re.kr , save_jhk@daum.net
MALAYSIA	
14) MR. ALWYN CHUANG KWANG TJET 	Executive Geoscientist PETRONAS, level 22, Tower 2, Petronas Twin Towers, Kuala Lumpur City Centre (KLCC), 50088, Kuala Lumpur, Malaysia Tel: (603) 2331 7534 Fax: (603) 2331 3238 E-mail: alwynchuang@petronas.com.my
PAPUA NEW GUINEA	
15) MS. LARISSA SOLOMON-NOMBE 	Acting Principal Geologist Department of Petroleum & Energy P.O. Box 1993, Port Moresby, N.C.D., Papua New Guinea Tel: (675) 3224200, Fax: (675) 3224222 E-mail: larissa_solomon@petroleum.gov.pg
PHILIPPINES	
16) MR. ANDRES O. PANGILINAN, JR. 	Senior Science Research Specialist Petroleum Resource Development Division Energy Resource Development Bureau, Department of Energy, Energy Center, Merritt Road 1201 Fort Bonifacio, Taguig City, Metro Manila, Philippines Tel: (63-2) 812 4016, 840 1401 to 21 Mobile: (63-2) 9178821766, Fax: (63-2) 840 2206 E-mail: wengky2@yahoo.com , apangilinan2005@yahoo.com
THAILAND	
17) DR. WANIDA CHANTONG 	Geologist, Department of Mineral Fuels 1010 Shinnawatra Tower 3, 26th floor Viphawadee Rangsit Rd, Bangkhen Jatujak, Bangkok, 10900, Thailand Tel: +662 791 8300 ext 5104, Fax: +662 791 8439 E-mail: wanida.c@dmf.go.th
18) MS. KANCHANA LANGKAPHIN 	Scientist, Department of Mineral Fuels 1010 Shinnawatra Tower 3, 26th floor Viphawadee Rangsit Rd, Bangkhen Jatujak, Bangkok, 10900, Thailand Tel: +662 791 8300 ext 5403, Fax: +662 791 8389 E-mail: kanchana@dmf.go.th

(OWN COST)

NAME	POSITION / ADDRESS
VIETNAM	
19) MRS. NGUYEN THI DAU 	Researcher Vietnam Petroleum Institute Yen Hoa, Cau Giay, Hanoi, Vietnam Tel: (84-4) 7841849, Fax: (84-4) 7845156 E-mail: daunt@vpihn.pv.com.vn
CCOP TECHNICAL SECRETARIAT	
1) MR. NIRAN CHAIMANEE 	Regional Expert / Geo-Environment Sector Manager CCOP Technical Secretariat Thai CC Tower, 24th Floor, Suite 244-245 889 Sathorn Tai Road, Sathorn Bangkok 10120, Thailand Tel: (66-2) 672 3080, Fax: (66-2) 672 3082 E-mail : niranch@ccop.or.th
NAME	POSITION / ADDRESS
2) MR. LIU LIQUN 	Project Coordinator ICB-CCOP1 Project CCOP Technical Secretariat Thai CC Tower, 24th Floor, Suite 244-245 889 Sathorn Tai Road, Sathorn Bangkok 10120, Thailand Tel: (66-2) 672 3080, Mobile: 66-81 9855765 Fax: (66-2) 672 3082, E-mail: liu@ccop.or.th
3) MS. PEERADA SRISOMBOON 	Assistant to Technical Division CCOP Technical Secretariat Thai CC Tower, 24th Floor, Suite 244-245 889 Sathorn Tai Road, Sathorn, Bangkok 10120, THAILAND Tel: 66-2-672 3080 to 81, Mobile: 66-81 9437313 Fax: 66-2-672 3082, E-mail: ann@ccop.or.th

Annex2

CCOP-DANIDA

Institutional Capacity Building Project ICB-CCOP1

Training Course on Organic Geochemistry and Petrology in Petroleum Exploration

September 11 – 14, 2006, Beijing, China

Program

Day 1: 10 September

Traveling to Beijing, China.

Arrival of Participants / Check-in Hotel

Day 2: 11 September

08:30 Registration

CCOP T/S

09:00 Opening Ceremony

Welcome Address:

Mr. Jiang Shijin, Director, International Cooperation Division
China Geological Survey (CGS)

on behalf of Permanent Representative of China to CCOP

Welcome Address:

Mr. Niran Chaimanee, Regional Expert / Geo-Environment Sector
Manager *on behalf of Director of CCOP Technical Secretariat*

Opening Remarks Mr. Ma Yongzheng, Deputy Permanent
Representative of China to CCOP, Deputy Division Director,
Department of International Cooperation, Science and Technology,
Ministry of Land and Resources (MLR)

09:20 Group Photo

09:30 Coffee/tea break

09:50 Introduction

10:00 Briefing on Basic Organic Sedimentology and Introduction to the
use of Organic Geochemical Screening Tools and Biological
Marker Techniques

(Dr. Jørgen A. Bojesen-Koefoed, GEUS)

11:00 Briefing on Basic Organic Petrography Applied for the Study of
Organic Maturity and Hydrocarbon Generation

(Dr. Henrik I. Petersen, GEUS)

12:00 Lunch Break

13:30 Introduction, why organic geochemistry and petrography?
15:00 Coffee/tea break
15:15 Organic sedimentology and deposition of source rocks: marine,
terrestrial and lacustrine environments
short discussion
17:00 End of Day 2

19:00 Welcome Dinner (Sponsored by CGS)

Day 3: 12 September

08:30 Composition and quality of petroleum source rocks as revealed by
Organic geochemistry and petrography
10:00 Coffee Break
10:15 Organic petrography: the maceral concept
12:00 Lunch Break
13:30 Biomarkers: compounds classes, utility for assessment of facies,
maturity and level of biodegradation, and for correlation of oils to
oils and oils to source rocks
15:00 Coffee/tea break
15:15 Organic matter maturation (vitrinite reflectance, including
suppression and retardation phenomena)
17:00 End of day 3

Day 4: 13 September

08:30 Petroleum generation
10:00 Coffee Break
10:15 Fluid (oil and rock extracts) analysis

12:00 Lunch Break

13:30 Case studies: illustrate the integration of organic geochemistry and
petrography and various other geological disciplines in petroleum
exploration
15:00 Coffee/tea break
15:15 Discussions & Exercises
16:00 Summary of Training Course, Closing and Certification
Presentation
17:00 End of day 4

19:00 Farewell Dinner

Day 5: 14 September

08:30 Excursion Day
Great Wall and Ming Tomb (Sponsored by CGS)

Day 6: 15 September

Check out from Hotel, Back Home Trip

Note:

The course is directed to geologists having some experience with source rock geology and hydrocarbon characterisation, but no specialist training within organic geochemistry and petrology. Focus is placed on the basic understanding of processes and methods and the application and integration of organic geochemical and petrological data in petroleum exploration. The ICB-CCOP1 Project case study research team members are expected to come, especially for those, who are going to involve in the petroleum system modelling work for case study since it is related to data preparation work.

23rd ANNUAL MEETING OF THE SOCIETY FOR ORGANIC PETROLOGY will be held on 15-22, September, 2006 in Beijing. Since it is a very important academic event in the field of petrology, we made our training course schedule matching it. In this conjunction, we would like to encourage our participants to attend this meeting after the training course. However, due to the limited budget, the participants want to attend the meeting have to shoulder the register fee (about 255 USD) and hotel accommodation as well as DSA during the period of the meeting by themselves. For more detailed information about the meeting, you are kindly recommended to visit the website at: <http://www.cumtb.edu.cn/frameset/tsop/index.htm> Furthermore, the participants should contact and register to meeting organizer directly by themselves. For those participants whose travel are sponsored by CCOP, please notice us the date of your planned travelling back home, so that we can make your return home trip flight ticket available for your itinerary.

Annex 3

SPEECH BY DIRECTOR OF COOPERATION DIVISION, CHINA GEOLOGICAL SURVEY

MR. JIANG SHIJIN

**at the opening ceremony of ICB-CCOP1
Training Course on Organic Geochemistry and Petrology in Petroleum Exploration
11-14 September 2006, Beijing, China**

Mr. Niran Chaimanee, Regional Expert, Geo-Environment Sector Manager, CCOP T/S
**Mr. Ma Yongzheng, Deputy Permanent Representative of China to CCOP, Deputy Division
Director, Department of International Cooperation and Science and Technology, Ministry of
Land and Resources**
Mr. Liu Liqun, ICB-CCOP1 Project Coordinator, CCOP T/S
Ladies and Gentlemen

Good Morning,

The CCOP-DANIDA Institutional Capacity Building Project ICB-CCOP1 Training Course on Organic Geochemistry and Petrology in Petroleum Exploration, which is jointly organized by China Geological Survey and CCOP, is conducted in Beijing today. On behalf of Dr. Zhang Hongtao, Permanent Representative of China to CCOP and Deputy Director General of China Geological Survey, I would like to express my warm welcome to the participants of CCOP Member Countries to attend this training course.

As you know this training course, which will be lasted for 3 days, will be focused on the organic geochemistry and petrology in petroleum exploration. I believe that all petroleum geologists of CCOP Member Countries are interested for this topic. We greatly appreciate that two resources persons from Denmark will give the presentation on this topic in detail, so it gives a chance to you to better understand how Denmark and other countries use this technology in the petroleum exploration. I would like to express my sincere thanks to the Royal Danish government to provide the financial support to this project in cooperating with CCOP organization. Only due to this project, it gives an opportunity to the petroleum geologists of CCOP Member Countries to work together, learn from each other and sharing experience each other. I believe that all of you will get benefit from the 3-day training course.

As you know, the CCOP-DANIDA Institutional Capacity Building Project ICB-CCOP1 was initiated last year, and up to now, more than 10 work meetings, workshops, training courses and field work concerning the basin modeling, resources evaluation, stratigraphic sequence analysis on the Yinggehai-Song Hong Basin and the Sulu Sea – East Sabah Basin case studies have been carried out in Thailand, China, Vietnam and Malaysia respectively in the past 12 months. The first phase work of this project is going very well and effective under common efforts of the related CCOP member countries. I hope that the second phase work, which will be started next year, will be going more successful on the basis of the first phase work under your effective work.

Finally, I wish this training course a great success and all of you a pleasant stay in Beijing.

Thank you.

Annex 4

SPEECH BY REGIONAL EXPERT / GEO-ENVIRONMENT SECTOR MANAGER, CCOP TECHNICAL SECRETARIAT

MR. NIRAN CHAIMANEE

**at the opening ceremony of ICB-CCOP1
Training Course on Organic Geochemistry and Petrology in Petroleum Exploration
11-14 September 2006, Beijing, China**

**Mr. Ma Yongzheng, the Deputy Permanent Representative of China to CCOP, Deputy
Division Director, Department of International Cooperation, Science and Technology
Mr. Jiang Shijin, Director, International Cooperation Division, China Geological Survey
Distinguished Guests, Resource persons, participants,
Mr. Liu Liqun, ICB-CCOP 1 Project Coordinator
Ladies and Gentlemen,**

Good morning!

On behalf of CCOP, it is distinct and great honor, may I take this opportunity to extend a very warm welcome to you all for the Training Course on Organic Geochemistry and Petrology in Petroleum Exploration. Due to the overlap oversea mission, Mr. Chen Schick Pei, the Director of CCOP/TS ask me to convey his gratitude and appreciation to Mr. Ma Yongzheng, the Deputy Permanent Representative of China to CCOP, for his kindly gave us his valuable time to be with us to grace this opening ceremony and to deliver the opening remark. Our sincerely thanks extend to the Royal Danish Government, for the great contribution from Denmark to this ICB-CCOP1 Project. I am please to see that this training is so well attended.

CCOP with kindly cooperation of the Geological Survey of Denmark and Greenland organize this training course for experience geologists who are working in the related field of Petroleum Geology or Petroleum Exploration. It is expected that the course will bring the better understanding on the implication of organic geochemical and petrologic data in petroleum exploration that can be apply for the case study petroleum system modeling analysis of ICB project.

You may aware that the scope of our cooperation is virtually boundless. The format is open and flexible. The technology transfer between Danish government and CCOP Member Countries will contribute for sharing best practice, promoting standards and adapting these to local needs and conditions. In order to enable our dialogue today to proceed in a systematic and efficient manner, it is expected that this project outcome will lead to develop, validate and demonstrate advanced systems to manage petroleum exploration, with a focus on developing institutional capacity for improved technology and know-how within our member countries.

Ladies and Gentlemen, I am sure that this training course will provide the forum for exchange information and experience and sharing knowledge among researchers. This will certainly enable all of us to obtain appropriate tools for petroleum exploration. And to conclude, I would like to

thanks again to the China Geological Survey for so generously hosting this training course and show us with such warm hospitality. We hope to see this atmosphere of cooperation and friendship again and again in the future.

Last but not least, may I wish you all at this meeting a success in your deliberation and have a pleasant stay in Beijing.

Thank you.

Annex 5

OPENING REMARK BY DEPUTY PERMANENT REPRESENTATIVE OF CHINA TO CCOP, DEPUTY DIVISION DIRECTOR, DEPARTMENT OF INTERNATIONAL COOPERATION AND SCIENCE AND TECHNOLOGY, MINISTRY OF LAND AND RESOURCES

MR. MA YONGZHENG

**at the opening ceremony of ICB-CCOP1
Training Course on Organic Geochemistry and Petrology in Petroleum Exploration
11-14 September 2006, Beijing, China**

**Mr. Niran Chaimanee, Regional Expert for CCOP Technical Secretariat,
Mr. Liu Liqun, Coordinator for ICB-CCOP1 Project,
Mr. Jiang Shijin, Director, China Geological Survey
Distinguished guest speakers,
Ladies and Gentlemen,**

Good Morning.

First of all, on behalf of the Ministry of Land and Resources and in the name of Deputy Permanent Representative of China to CCOP, I would like to extend our warm welcome to all the participants from domestic and abroad for this training course on Organic Geochemistry and Petrology in Petroleum Exploration.

I also would like to take this opportunity to briefly summarize the Project Institutional Capacity Building.

The project sponsored by Royal Danish Government was approved by the CCOP Member Countries in 43rd Steering Committee meeting. The goal of this project is to exchange and share data, enhance the capability of the geoscientists on oil and gas exploration and sustainable exploitation through bi-literal or multi-literal cooperation, a series of training courses and workshops concerning basin modeling, resource evaluation, field work, stratigraphic sequence analysis.

On the project inception phase meeting in May 2005, the Yinggehai-Song Hong and the Sulu Sea-East Sabah basins were selected as the case studies for the first phase work. China Geological Survey is the organizing agency from China for the Yinggehai-Song Hong basin case study, Qingdao Institute of Marine Geology, Guangzhou Marine Geological Survey and CNOOC are identified as the research institutions carrying out the project.

This case study will last 3 years, from 2005 to 2007, the main research activities include data exchange, comparison, and collaborative research, data integration, tectonic characteristic study and oil potential analysis, making structure maps and isopach maps etc..

China and Vietnam have finished the seismic profile correlation, drilling well data comparison. 21 basic maps for hydrocarbon resource evaluation have been made. The method and software for resource evaluation has been defined and related training course has been conducted, which have laid a solid base for the next collaborative work.

Today, we come together for training course on Organic Geochemistry and Petrology in Petroleum Exploration, I believe the knowledge we get here will enhance our capability for application of organic geochemistry, and will facilitate the following work of our project.

Finally, I would like to thank Royal Danish government for financially supporting this project, thank GEUS through CCOP for sending the resource persons.

Wish the training course success and enjoy your stay in Beijing.



**INSTITUTIONAL CAPACITY BUILDING IN CCOP COUNTRIES,
PHASE 1 (ICB-CCOP1)**



Group photo of all the ICB-CCOP1, 1st China Training Course participants



**Opening Ceremony on 11th
September, 2006.**



Instruction

**CCOP-DANIDA Institutional Capacity Building Project ICB-CCOPI
Training Course on Organic Geochemistry and Petrology in Petroleum Exploration
11-14 September 2006, Beijing, China**



Lecturing & Learning



Discussing



Lecturing & Learning



Lecturing & Learning



Certification



Certification



Certification



Certification

**CCOP-DANIDA Institutional Capacity Building Project ICB-CCOP1
Training Course on Organic Geochemistry and Petrology in Petroleum Exploration
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Welcome Dinner Host by CGS



Celebrating Birthday during Farewell Dinner



Participants Visiting Badaling Great Wall, A World Cultural Heritage by the UNESCO