

**CCOP-DANIDA**  
**Institutional Capacity Building Project ICB-CCOP1**  
**Seminar on Capacity Building during the Implementation of**  
**ICB-CCOP1 Project**  
**23-25 August 2007, Phuket, Thailand**

**Report on proceedings and discussions at the Seminar**

**Date and Venue:**

The seminar was held on 23-25 August 2007, in Merlin Ballroom A, Merlin Beach Resort.

Address: 99 Muen-Ngoen Rd., Tri-Trang Beach,

Patong, Kathu District

Phuket, 83150, Thailand

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Website: <http://www.merlinphuket.com/merlinbeach/index.html>

Local Organizer: CCOP Technical Secretariat

**Participants:**

Thirty-two (32) participants from Cambodia, China, Indonesia, Japan, Korea, Malaysia, Papua New Guinea, Philippines, Thailand and Vietnam attended the seminar.

The represented agencies/institutes were:

- ❖ Cambodian National Petroleum Authority (CNPA), Cambodia
- ❖ China Geological Survey (CGS), China
- ❖ Qingdao Institute of Marine Geology, China Geological Survey (CGS), China
- ❖ Guangzhou Marine Geological Survey, China Geological Survey (CGS), China
- ❖ China National Offshore Oil Corporation(CNOOC), China
- ❖ PPPTMGB (LEMIGAS), Indonesia
- ❖ Geological Survey of Japan (GSJ), Japan
- ❖ Korea Institute of Geoscience and Mineral Resources (KIGAM), Korea
- ❖ PETRONAS, Malaysia
- ❖ Department of Petroleum and Energy Petroleum Division, Papua New Guinea
- ❖ Department of Energy (DOE), Philippines
- ❖ Department of Mineral Resources (DMR), Thailand
- ❖ Department of Mineral Fuels (DMF), Thailand
- ❖ Vietnam Petroleum Institute (VPI), Vietnam
- ❖ Vietnam Oil and Gas Group (Petrovietnam), Vietnam
- ❖ Geological Survey of Denmark and Greenland (GEUS), Denmark
- ❖ CCOP Technical Secretariat

The total participants of the seminar were forty (40), detailed name list of participants is attached in Annex 1.

## **Program:**

The detailed program of the seminar is provided in Annex 2.

## **Background and Purpose of the Meeting:**

Seminar on capacity building is one of the most important activities during the implementation of the ICB-CCOP1 Project. It is an additional activity beyond the original project plan, which designed as the final activity involving all the CCOP Member Countries. The sincere appreciation should go to the donor agency, DANIDA for giving the flexibility and allowing holding this seminar to disseminate the outputs from the project.

The presentation outline is provided as follow:

### **1. Lesson Learned from the project implementation**

1.1 How to involve the international scientific cooperation, especially for carrying out the jointly cross-border geoscientific studies

1.2 Enhanced capabilities of local geoscientists/researchers in various areas of petroleum-related disciplines

People involved in the ICB-CCOP1 Project activities, such as meeting, workshop, seminar, training course and field study, etc.

Total amounts of personnel and times of participating, including the female participants

Specific benefits from the activities, such as technology transfer, knowledge enhancement and existing information and experience sharing, especially from cross-border case studies

### **2. Impact of the project implementation**

2.1 National/international research networks/linkages establishment, as well as some specific partnership toward the future cooperation

2.2 Confidence for the future cooperation within the CCOP Member Countries, especially for cross-border case study

2.3 Postgraduate Grants

How the grant helps the recipient to contribute to his/her program (*case study host countries*)

2.4 Software Granted

How the granted software benefits the case study as well as your agency (*case study host countries*)

2.5 How the outputs obtained from the ICB-CCOP1 Project benefit your agency and disseminate within your agency and your country

2.6 Your agency's in-kind contributions to the project activity, such as providing regional experts, being the local organizer of the ICB-CCOP1 Project activity, as well as material, financial and manpower support, etc.

2.7 Other matters

## **Record of Proceedings and Discussions at the Seminar:**

Ms. Vareerat Unwerawattana was the host for this opening ceremony. Mr. Ioannis Abatzis, Representative of Denmark to CCOP, made the welcome remarks. He congratulated current achievements from the ICB-CCOP1 Project, especially from the cross-border joint case study, which set up the new milestone in CCOP history. He encouraged all delegates to summarize and disseminate the outputs from the project implementation.

As the representative from local host country, on behalf of Mr. Apichai Chvachareonpun, Permanent Representative of Thailand to CCOP and Director-General of Department of Mineral Resources, Thailand, Mr. Samai Chiemchindaratana, Deputy Permanent Representative of Thailand to CCOP and Inspector-General of Ministry of Natural Resources and Environment, Thailand made warm welcome to all participants. He expressed his sincere thanks to the Royal Danish Government through DANIDA for fully support on the ICB-CCOP1 project, both financial and resource persons, and allowing the CCOP to hold this seminar to disseminate the outputs of the project. He also gave his thanks to China, Malaysia, Philippines and Vietnam for their major contributions to the project case studies. Finally, he expressed his thanks to Dr. Hee-Young Chun and his staff especially Mr. Liu Liquan, ICB-CCOP Project Coordinator for excellent management of the project as well as organization of this seminar (Annex 3).

On behalf of CCOP, Dr. Hee-Young Chun, Director of CCOP Technical Secretariat made a comprehensive welcome speech. He gave his warm welcome to all delegates and expressed sincere appreciation to the generous support from Royal Danish government. He extended a very warm welcome to everybody to the CCOP-DANIDA Institutional Capacity Building Project ICB-CCOP1 Seminar on Capacity Building. On this special occasion, he expressed the deep appreciation to His Excellency Mr. Michael Sternberg, Ambassador of Denmark to Thailand, Cambodia and Burma (Myanmar), Mr. Samai Chiemchindaratana, Deputy Permanent Representative of Thailand to CCOP and Inspector-General of Ministry of Natural Resources and Environment, Thailand on behalf of Mr. Apichai Chvachareonpun, Permanent Representative of Thailand to CCOP and Director-General of Department of Mineral Resources, Thailand and Mr. Ioannis Abatzis, Representative of Denmark to CCOP and senior advisor to ICB-CCOP1 Project for their presence during this opening ceremony despite their heavy commitments. In his speech, he praised that the DANIDA-funded project Institutional Capacity Building Project ICB-CCOP1 had reached its prominent milestone, which made this 3-day seminar one of the most important activities for the implementation of the project. The heartfelt appreciation was conveyed to the donor agency, DANIDA and the Royal Danish Embassy in Bangkok for their kind consideration and flexibility in allowing the organization of this seminar despite the fact that this activity was not included in the original work plan. CCOP truly appreciate their generosity and understanding. Throughout the course of ICB-CCOP1 project, the tremendous support from the Danish government was offered both in forms of money contribution and expert provision to a number of activities in various locations in the region. Special thanks also go to the project case study host countries of each and every one of the activities and the Royal Danish Embassy in those countries for their support and contribution (Annex4).

Subsequently, H.E. Mr. Michael Sternberg, Ambassador of Denmark to Thailand, Cambodia and Burma (Myanmar) made the opening address. In his address, he mentioned it was the first time that Denmark supported directly CCOP as an organization to the benefit of all its Member Countries something which aimed on the regional economic growth and stability through the implementation of the ICB-CCOP1 Project. The Danish Government, through DANIDA, was pleased to have supported the successful implementation of the ICB-CCOP 1 Project. This success, however, was not going to be possible without the valuable cooperation and contributions of the CCOP Member Countries in manpower, material and finance during the project implementation, as well as, the efficient coordination and financial management of the project by CCOP Technical Secretariat. All these have really maximized the value of the funds provided by DANIDA for the project. Finally, he declared the seminar opened and he wished all participants had a good seminar and a pleasant stay in Phuket (Annex 5).

Following up, six sets of EasyCopy software, which were purchased by project fund, were granted to the five case study host countries and CCOP Technical Secretariat by H.E. Ambassador.

Afterwards, Mr. Liu Liqun, ICB-CCOP1 Project Coordinator, gave a brief reviewing of the ICB-CCOP1 Project implementation and summarized the outputs and impacts of the project, especially the outputs and impacts from the cross-border joint case study. He gave his sincere thanks to the delegates from CCOP Member Countries for the preparation on this seminar presentation, especially to the National Coordinators.

Then, on behalf of all delegates from CCOP Member Countries, Mr. Robert Wong Hin Fatt, National Coordinator of ICB-CCOP1 Project, Senior Manager, PMU, PETRONAS, Malaysia made a speech on the impact of ICB-CCOP1 Project. He summarized the achievements from the implementation of the ICB-CCOP1 Project during the past two and half years, especially from the cross-border joint case study. He said, as he knew, it was the first time that the geoscientists from CCOP Member Countries to work together on the cross-border sharing basin. He would like to mention that it was a unique opportunity provided by the ICB-CCOP1 Project. It is also the first time to generate a series of the whole basin view map of the Sulu Sea-East Sabah and the Yinggehai-Song Hong basins from the sharing data prepared and provided by cross-border joint case study partners. These series map would make more contributions on understanding the petroleum resources potential, and hereby, attract more investment from industry. The basin modeling software and training course offered by the ICB-CCOP1 Project brought tremendous benefits to the case study team members, especially for junior young geoscientists for their capacity building. Through the project implementation, the strong connection has been built as well as common trust and confidence. It is very impressive impact to our ICB-CCOP1 Project team in our CCOP Member Countries. The special regional expertise have been contributed and shared based on own willing from our Member Countries. Regional critical common issues were identified during the project implementation. For example, Malaysia and other Member Countries provided the CO<sub>2</sub> experts, meanwhile, the fractured basement reservoir experts were offered by Vietnam, the additional project activities were setup accordingly. All these events meant that the project implementation provided the chance for the mutual benefits to our Member Countries.

Finally, on behalf of the CCOP Member Countries, he expressed his sincere thanks to the donor agency-DANIDA, for generous financial support as well as the technical support from GEUS. The Member Countries' financial and manpower supports were mentioned during his speech. This represented the good cooperation between the CCOP Member Countries and donor country. Finally yet importantly, he depicted his personal experience through attending the ICB-CCOP1 Project activities. Although the participants from CCOP Member Countries speak different languages, have different cultural background and different religious believes, all the ICB-CCOP1 Project activities save the differences from CCOP Member Countries to let him experience the real culture diversity. It helps to increase the understanding and enhance the friendships.

After coffee break, the presentation started from Cambodia. Mr. Chea Socheat, National Coordinator of ICB-CCOP1, Deputy Chief Officer, Cambodian National Petroleum Authority presented Cambodian presentation. His presentation included the petroleum exploration and production status in Cambodia, capacity building through the ICB-CCOP1 Project and proposal for the ICB-CCOP Project phase 2. Although Cambodia is not a case study host country in the ICB-CCOP1 Project, under the ICB-CCOP1 Project umbrella, Cambodia also conducted one cross-border field study with Vietnamese partner supported by another DANIDA project, ENRECA. Finally, he gave the thanks to DANIDA and suggested for providing the mid and long term training course toward capacity building for less experience Member Countries.

Dr. Cai Feng, National Coordinator of ICB-CCOP1 Project, Dr. Wang Liaoliang and Mr. Tong Chuanxin made a comprehensive presentation of the outputs from the Yinggehai-Song Hong basin joint case study. These outputs are not only from Chinese side but also included the achievements from Vietnamese side. His presentation covered regional geology, joint field study, basin modeling, petroleum system analysis and hydrocarbon potential. Meanwhile, Dr. Cai Feng also presented the impact of the project, including knowledge enhancement, experience sharing, technology transfer and connection building, especially the partnership with the Vietnamese joint case study counterpart. The benefits from the ICB granted software and postgraduate grants also were emphasized. He also gave his thanks to DANIDA, CCOP Technical Secretariat, Vietnam and Chinese government.

Next, Dr. Nguyen Trong Tin, National Coordinator of the ICB-CCOP1 Project from Vietnam, made some supplements on the outputs from the Yinggehai-Song Hong basin cross-border joint case study. He also introduced the strong impacts from the implementation of the ICB-CCOP1 Project.

Dr. Yoshihisa Okuda, National Coordinator of Japan, presented the report of the ICB-CCOP1 Project implementation. He mentioned that Japan highly evaluates the project valuable. He said the new type of communication among petroleum geoscientist of Member Countries through the project with exchange of exploration data has been established. Meanwhile, the effective grants to Member Countries including postgraduate grants and software sponsored by project brought the tremendous benefits to Member Countries. He also shared the information about petroliferous basins onshore and offshore and new approach of the gas hydrate study. That included:

- There are fore-arc, back-arc, median, and rift basins around Japanese Islands.

- Generally speaking, the sedimentary basins on the Pacific Ocean side are mainly expected bearing gas reservoirs including gas hydrate layers, and those on the Japan Sea sides are mainly expected bearing oil reservoirs.
- To generate thermogenic oil and gases in the young strata of Neogene, high heat sources from present and/or past volcanoes are necessary.
- Paleogene from Hokkaido to Kanto along the Pacific coast, which contains coal beds, have high potential to produce thermogenic oil and gases, if they have been under compression stress fields.
- There are giant rift basins beneath the continental shelf of the East China Sea and in the Okinawa trough.
- The rift basins beneath the continental shelf in the southern part of the East China Sea have suffered from thermogenic alternations by tertiary volcanoes, and high potential to produce thermogenic hydrocarbons.

Dr. Young-In Kwon, National Coordinator of Korea, reviewed the Korean involvement to the ICB-CCOP1 Project activities toward the capacity building. He also introduced the ongoing KIGAM's project on the construction of petroleum database system and exploration for gas hydrate in East Sea. Finally, he made the suggestion as followed:

- Gas hydrate discovered in CCOP countries: China, Indonesia, Japan, Korea, Malaysia
- Gas hydrate is not only twice amount of the fossil fuel energy but also more clean than gasoline. Therefore, if we develop a safe producing method, gas hydrate will be an important future energy.
- Gas hydrate studies need sufficient fund and high technology and international cooperation.
- As a part of the ICB-CCOP Project phase 2, proposed to make joint marine survey, research group, and conference based on acquired data for gas hydrate. This kind of cooperative studies will contribute to the reducing the financial risks and overcoming the technical barrier through the exchanging and sharing of information and knowledge on gas hydrate.

Mr. Sudarman Sofyan, National Coordinator of Indonesia, reviewed the journey of the implementation of the ICB-CCOP1 Project and introduced the lessons learned from the project implementation. He emphasized the outputs from knowledge and experience sharing during the project implementation as well as the establishment of the cooperation relationship with other CCOP Member Countries. He also presented the new scientific achievements and challenges of LEMIGAS in the field of remote sensing, coal bed methane, geohazard from mud volcano eruption and petroleum study. Finally, he proposed the cross-border case study area for the phase 2 of the ICB project, including offshore cross-border area west Natuna and east Natuna, onshore cross-border area between Indonesia and Papua New Guinea.

Mr. Robert Wong Hin Fatt, National Coordinator of Malaysia and his team members made the presentation together on outputs from the Sulu Sea-East Sabah basin case study and capacity building. Dr Allagu Balaguru introduced the regional geology, basin evolution, sequence stratigraphy analysis. Mr. Zulhaimi Bin Abdul Rahman introduced the seismic interpretation and

well correlation. Moreover, Mr. Chan Eng Hoe presented basin modeling results and petroleum system analysis. Subsequently, Robert Wong summarized the outputs from the joint case study and the capacity building, as followed:

**1) Involvement of local geoscientists**

- Ideas, knowledge and data are freely shared between geoscientists from across the borders.
- Geoscientists from across the common borders are determined to achieve common goals to realize the hydrocarbon potential in their part of the basin.
- Networking between geoscientists from CCOP Member Countries is achieved and paved the way for future cooperation.
- The differences in culture, language and religion of CCOP Member Countries are respected-we celebrate our differences.

**2) Enhancing the capabilities of geoscientists**

- Young geoscientists greatly benefited by learning from field trips, discussions, trainings, workshops and project work. Their leadership capabilities were also developed by organizing some of these meetings.
- Experienced geoscientists enriched their knowledge from networking with experts from other countries with new ideas and new methods e.g. fracture basement play from Vietnamese experts, low CO<sub>2</sub> gas exploration technique from the Malaysian experts.
- Technology transfer through software training and application, e.g. PetroMod for basin modeling, ArcView for digital mapping.
- Technical assistance granted to cross-border team members that are low on resources.
- Involvement of female geoscientists to enhance their capabilities-3 female geoscientists amongst the 12 participants from Malaysia.
- Involvement of a M.SC student which prepared him to be employed in the oil industry and at the same time his research in onshore Dent Penin. Improves our comprehension of the Sulu Sea-East Sabah Basin.

**3) Outputs from the case study**

- Better understanding of the petroleum systems of the Sulu Sea-East Sabah basin.
- Increase the value of Sulu Sea-East Sabah basin.
- Improve the marketability of our open blocks.
- Promote further exploration in this basin.
- Networking & future partnership
- Working with the geoscientist on the other side really helped a lot in establishing a good relationship between PETRONAS and DOE.

**4) Understanding and application of modern technologies**

- PetroMod software and training highly benefited the team members. Team members manage to learn the software and utilize it to conduct basin modeling work and understanding the petroleum system in depth.
- Team members are also developing their peers in basin modeling.
- Prompted our department in seeing the importance of basin modeling as part of an important process in basin evaluation.
- ArcView software would be very helpful for documenting our petroleum resources and geo-referencing our prospects and leads.

#### **5) Future corporation with CCOP member countries**

- Other cross-border basin studies, i.e. North Sumatra Basin with Indonesia and Thailand could be a possibility.
- Associated with this cross border basin study, basin scale resource assessment is also proposed.

Mr. Redentor D. Pascual, National Coordinator of the Philippines and Ms. Ma. Corazon Sta. Ana from Department of Energy, Philippines reported the capacity building achievement from Philippines during the project implementation. They reviewed the lessons learned during the project activity, including the aspects of the knowledge sharing, joint case study cooperation, postgraduate grants and software training, etc. The presentation introduced the background of the Sulu Sea basin, basin modeling results and hydrocarbon potential.

Next, Mr. Jimmy Haumu, National Coordinator of Papua New Guinea, introduced the roles, responsibilities and resources of the Department of Petroleum and Energy, Papua New Guinea, as followed:

- The main role of the Division is as the Regulator of the Oil Industry in Papua New Guinea.
- We monitor the oil/gas companies in accordance with the laws and regulations.
- One of the other main roles we play is the promotion of our petroleum potential. This is done through basin appraisal studies as well as providing readily available data to potential investors
- The actual business of exploration and development of oil & gas is left to the oil companies who usually have the necessary skills, technology and finance

Then, he presented the lessons learned from the project implementation. He said that although PNG was not directly involved in the cross-border geoscientific studies, however they were pleased to have been involved in the initial phase of planning of this project in Bangkok in 2005. In this planning workshop, participants from CCOP Member Countries were involved in brainstorming sessions on how to implement cross-border studies, what would be the end products, project schedule and the necessary man-power and resources to successfully complete. At that time, he realized that knowledge, skills and experience could be drawn from within the working group through this brainstorming session. Meanwhile, the international network and friendship were developed toward future cooperation. He also presented the ICB impact on every individual participant from PNG to each organized ICB activity.

Finally, he shared the information of the petroleum resources distribution in PNG as well as the licenses and bidding blocks onshore and offshore.

On behalf of Thailand, Mr. Tananchai Mahattanachai, Senior Geologist, Department of Mineral Fuels, Thailand made the presentation. He said the Department of Mineral Fuels (DMF), on behalf of representative from Thailand government organization, involved with this project by selecting and sending people to participate with various groups of activities, which were agreed among CCOP Member Countries and organized under the ICB-CCOP1 Project. As a non-host country, DMF could not fully participate with this project, thus the informative training courses, workshops,

seminar meetings, and Field studies were provided in order to build scientific capabilities of local organization. Most activities and resources of this project were weighted on the case studies between the host countries in a degree of slightly above adequacy.

During the project implementation, knowledge sharing from established articles and field study, kindly provided by the host countries, were marked as an inspired, magnificent international scientific cooperation and it is good for future educational initiation. It is a positive sign for future scientific cooperation beyond the country boundaries. Combination of connection and lesson learned from former case study of the ICB-CCOP1 project will be used to develop a guideline for setting off the Mergui –North Sumatra Basin in the Andaman Sea (cross-border) Case Study under EPPM project. The project will involve Thailand, Indonesia, and Malaysia to be host of the case study.

Last, information of updated petroleum activities of Thailand was provided to all participants.

In addition, due to Cambodia actively involved in the implementation of the ICB-CCOP1 Project, especially, the previous successfully conducted Joint Cambodia-Vietnam-DANIDA-CCOP Geological Field Study and Workshop. In this connection, H.E. Mr. Michael Sternberg, Ambassador of Denmark to Thailand, Cambodia and Burma (Myanmar), suggested to conduct an extra dissemination seminar connected with field study in Cambodia to disseminate the achievements of the ICB-CCOP1 Project in Cambodia. After the seminar, we followed up this good idea to promote this activity. The official letter of organizing this activity was sent to the local Cambodia authority in CNPA for asking their permission and cooperation to conduct this activity. Once the requirement is confirmed, we will propose to use the project budget margin to conduct this activity. We do think this activity will benefit Cambodia and our CCOP Member Countries. If it is possible, we would like to schedule this activity around the end of November and/or begin of December.

After country presentation, the representatives from CCOP Member Countries provided their valuable inputs to the ICB-CCOP Project phase 2, as followed:

- **Cambodia**
  - Human Resource Management, Requirement of Technology Transfer and Experience Sharing in Petroleum Exploration and Production
  - Environmental Impacts
- **China**
  - Follow up the Vietnam Partners Proposal during the Case Study Meeting, Continue Study in North of Song Hong-Yinggehai Basin, Hanoi Trough, Western Part of the Beibuwan Basin,
  - Case Study Focusing on Technical Issues, such as Diapir, Deep water issues, Yellow Sea, South China Sea, China, Japan, Malaysia, Vietnam
  - Conduct whole Song Hong-Yinggehai Basin Study.
- **Indonesia**
  - Coal Bed Methane (CBM)
  - Study area between PNG and Indonesia

- Hydrocarbon Potentials of Forearc Basins
- **Japan**
  - Hydrocarbon from coals (compare biomarkers in oil), source rocks in Sabah & Sarawak areas
  - Deep Sea (gas hydrate)
- **Korea**
  - Find Resource of the Funding
  - Gas Hydrate, Conventional Petroleum Study
  - CO2 Hydrate
- **Malaysia**
  - More Specified Details of CO2 Mapping: East Natuna & Rajang Delta
  - West Palawan-Siagut Syncline Basin Study
  - Basin Evolution Study of South China Sea as One Project Leading to Regional Evolution Understanding
- **Papua New Guinea**
  - Cross-border Study with Indonesia (agree with Indonesia)
  - Marginal Gas Fields Development
- **Philippines**
  - Support Idea of South China Sea Study and West Palawan-Siagut Syncline Basin Study from Malaysia
  - Environmental Impacts & Issues during Offshore Exploration Especially Seismic Survey and Exploration Drilling
  - CBM Inventory or Development
- **Thailand**
  - Unconventional/ Alternative Resources e.g. Gas from Hydrate, Gas from Shale
  - Support Malaysia's Proposal in CO2 Mapping
  - Development of Gas in Deepwater
- **Vietnam**
  - Marginal gas field & high CO2 gas field development
  - Deepwater Resources e.g. Gas hydrate
  - Support Proposal from Indonesia (West Natuna and South Con Son basin)
  - Mesozoic/ Paleozoic Basin: Cross-border study (Thailand, Vietnam, Cambodia & Laos)
- **Mr. Simplicio P. Caluyong**
  - Define Donor's Policy for Funding Requirement
- **Dr. Allagu Balaguru**
  - SUGGESTED TOPIC: "Environmental and Economic Importance of CO2/CBM in the South China Sea Geological Basins – Cross-border Mapping of CO2/ CBM" (incorporated Basin Evolution Study)
  - CO2 Sequestration Site

The two-day indoor seminar was completed with fruitful achievements. During the seminar presentations, each CCOP Member Countries expressed their sincere appreciation to the donor country, Royal Danish government and CCOP Technical Secretariat. At the closing ceremony, on behalf of CCOP, Dr. Hee-Young Chun granted the plaque to the National Coordinators and project advisor.

After the two day indoor seminar, all participants were invited to take part in the excursion to the beautiful Phi Phi Island, which was just recovered and reconstructed from Tsunami December 26, 2004.

The evaluation and comments on the seminar showed our participants were pretty satisfied with the seminar (see Annex 6) .



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



***Group photo of the ICB-CCOP1 Project Seminar***



***Ambassador Granted  
EasyCopy Software to  
ICB-CCOP1 Project Case  
Study Host Countries &  
CCOP T/S***



***Mr. Liu Ligu, Project  
Coordinator, Reviewing the  
Implementation of the  
ICB-CCOP1 Project***



**Mr. Robert Wong Hit Fatt Introduced the Output & Impact of ICB-CCOPI Project**



**Focus on the Presentation**



**Country Report on Capacity Building**



**Country Report on Capacity Building**



**Country Report on Capacity Building**



**Country Report on Capacity Building**



**Proposal for ICB-CCOP Project Phase II**



**Award to National Coordinators and Resource Person**



*Birthday Celebration during Welcome Dinner*



*Thai Culture Event*



*Farewell Dinner*



*Excursion to Phi Phi Island*



*Our Excursion Group Photo*

## Annex 1

<b>CCOP-DANIDA Institutional Capacity Building Project ICB-CCOP1</b> <b>Seminar on Capacity Building during the Implementation of</b> <b>ICB-CCOP1 Project</b> <b>23-25 August 2007, Phuket, Thailand</b>	
<b>DISTINGUISHED GUESTS</b>	
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## Annex 2

# CCOP-DANIDA Institutional Capacity Building Project ICB-CCOP1 Seminar on Capacity Building during the Implementation of ICB-CCOP1 Project 23-25 August 2007 Phuket, Thailand PROGRAM

### Day 1: 22 August (Wednesday)

Arrival of Participants / Check-in Hotel

### Day 2: 23 August (Thursday)

08:30	Registration	CCOP TS
09:00	Opening Ceremony: <b>Welcome Remarks by <i>Mr. Samai Chiemchindaratana</i></b> Deputy Permanent Representative of Thailand to CCOP Inspector-General, Ministry of Natural Resources and Environment <b><i>Dr. Hee-Young Chun</i></b> , Director of CCOP Technical Secretariat <b><i>Mr. Ioannis Abatzis</i></b> , Representative of Denmark to CCOP <b>Opening Address by H.E. Mr. Michael Sternberg</b> , Ambassador of Denmark to Thailand, Cambodia and Burma (Myanmar)	
09:20	Report the overall implementation of the ICB-CCOP1 Project and the target of the seminar by Mr. Liu Liqun, ICB-CCOP1 project coordinator	
09:45	Speech by Mr. Robert Wong Hin Fatt, National Coordinator of Malaysia on behalf the Member Countries introduce the impact on Capacity Building of the ICB-CCOP1 project	
10:10	Group Photo and Coffee/tea break	
10:30	Introduction  - Presentations on The Capacity Building through the implementation of the ICB-CCOP1 Project by the National Coordinators of Member Countries (Case study host countries are requested to include the final case study report) (30 minutes for non-case study host countries/ 60 minutes for case study host countries) Presentations by the National Coordinators of Cambodia and China	
12:00	Lunch Break	
13:30	Continue presentations by National Coordinators of Vietnam and Japan	
15:00	Coffee/tea break	
15:15	Continue presentations by National Coordinators of Korea and Indonesia	
17:30	End of the day	
18:30	Welcome Dinner	

### Day 3: 24 August (Friday)

08:30	Continue presentations by National Coordinators of Malaysia and Philippines
10:00	Coffee/tea break
10:30	Continue presentations by National Coordinators of Papua New guinea and Thailand

12:00	Lunch Break
13:30	Discussion toward the future Capacity Building within CCOP Member Countries
15:00	Coffee/tea break
15:30	Seminar wrap up
16:30	End of the day
17:00	Farewell dinner

**Day 4: 25 August (Saturday)**

Excursion to Phi Phi Island

**Day 5: 26 August (Sunday)**

Check-out and departure from Thailand

### **Annex 3**

**WELCOME ADDRESS BY DEPUTY PERMANENT REPRESENTATIVE OF THAILAND TO  
CCOP AND INSPECTOR-GENERAL OF MINISTRY OF NATURAL RESOURCES AND  
ENVIRONMENT, THAILAND ON BEHALF OF MR. APICHAJ CHVACHAREONPUN,  
PERMANENT REPRESENTATIVE OF THAILAND TO CCOP AND DIRECTOR-GENERAL OF  
DEPARTMENT OF MINERAL RESOURCES, THAILAND**

**MR. SAMAI CHIEMCHINDARATANA**

**at the opening of CCOP-DANIDA  
Institutional Capacity Building Project ICB-CCOP1  
Seminar on Capacity Building during the Implementation of ICB-CCOP1 Project  
23 - 25 August 2007, Phuket, Thailand**

**His Excellency Mr. Michael Sternberg, Ambassador of Denmark to Thailand, Cambodia  
and Burma (Myanmar)**

**Dr. Hee-Young Chun, Director of CCOP Technical Secretariat**

**Mr. Ioannis Abatzis, Representative of Denmark to CCOP and Senior advisor to ICB-CCOP1  
Project**

**Mr. Liu Liqun, ICB-CCOP Project Coordinator,  
Distinguished Experts, Participants, Ladies and gentlemen**

Swaddee Khrab - Good Morning

On behalf of the host country, I would like to extend our warmest welcome to all of you to the Seminar on Capacity Building during the Implementation of ICB-CCOP1 Project here in Phuket - the beautiful island city of Thailand - with various natural heritages.

This seminar is one another important event for the geoscientists from the CCOP Member Countries to meet to discuss, share knowledge and experience in the petroleum field through the ICB-CCOP1 project.

I am convinced that, with excellent guidance of the involved geoscientist-experts and Project Coordinator, the ICB-CCOP1 have achieved the most satisfactory results so far.

As the final activity of this project, I hope that the ICB-CCOP1 seminar today will attain its objectives in promoting a better understanding of the cross-border geoscientific studies and capacity building of geoscientists in the CCOP Member Countries.

I would like express my sincere thanks to the Royal Danish Government through DANIDA for full support on the ICB-CCOP1 project, both financial and resource persons, and allowing the CCOP to hold this seminar to disseminate the outputs of the project. I would like to thank China, Philippines, Malaysia and Vietnam for their major contributions to the ICB project case studies. I would like to thank Dr. Hee-Young Chun and his staff especially Mr. Liu Liqun, ICB-CCOP Project Coordinator for excellent management of the project as well as organization of this seminar.

Finally, I wish you all a fruitful seminar and particularly hope you enjoy the most while you are in Phuket.

Thank you.

## **Annex 4**

### **OPENING SPEECH BY DIRECTOR OF CCOP TECHNICAL SECRETARIAT**

**DR. HEE-YOUNG CHUN**

**at the opening of CCOP-DANIDA  
Institutional Capacity Building Project ICB-CCOP1  
Seminar on Capacity Building during the Implementation of ICB-CCOP1 Project  
23 - 25 August 2007, Phuket, Thailand**

**His Excellency Mr. Michael Sternberg, Ambassador of Denmark to Thailand, Cambodia and Burma(Myanmar)**

**Mr. Samai Chiem/ chin/ da/ ratana, Deputy Permanent Representative of Thailand to CCOP and Inspector-General of Ministry of Natural Resources and Environment, Thailand**

**on behalf of Mr. Apichai Ch-va/cha/reon/pun, Permanent Representative of Thailand to CCOP and Director-General of Department of Mineral Resources, Thailand**

**Mr. Ioannis Abatzis, Representative of Denmark to CCOP&Senior advisor to ICB-CCOP1 Project**

**Mr. Liu Liqun, ICB-CCOP1 Project Coordinator**

**National Coordinators of ICB-CCOP1 Project**

**Participants**

**Ladies and Gentlemen**

Good Morning,

On behalf of CCOP, I would like to extend a very warm welcome to everybody to the CCOP-DANIDA Institutional Capacity Building Project ICB-CCOP1 Seminar on Capacity Building during the Implementation of ICB-CCOP1 Project. On this special occasion, we would like to express our deep appreciation to His Excellency Mr. Michael Sternberg, Ambassador of Denmark to Thailand, Cambodia and Burma (Myanmar), Mr. Samai Chiemchindaratana, Deputy Permanent Representative of Thailand to CCOP and Inspector-General of Ministry of Natural Resources and Environment, Thailand on behalf of Mr. Apichai Chvachareonpun, Permanent Representative of Thailand to CCOP and Director-General of Department of Mineral Resources, Thailand and Mr. Ioannis Abatzis, Representative of Denmark to CCOP and senior advisor to ICB-CCOP1 Project for their presence during this opening ceremony despite their heavy commitments .

The DANIDA-funded project Institutional Capacity Building Project ICB-CCOP1 has reached its prominent milestone that makes this 3-day seminar one of the most important activities for the implementation of the project. Our heartfelt appreciation is conveyed to the donor agency, DANIDA and the Royal Danish Embassy in Bangkok for their kind consideration and flexibility in allowing the organization of this seminar despite the fact that this activity was not included in the original work plan. We truly appreciate their generosity and understanding. Throughout the course of ICB-CCOP1 project, the tremendous support from the Danish government is offered both in forms of money contribution and expert provision to a number of activities in various locations in the region. Special thanks also go to the host countries of each and every one of the activities and the Royal Danish Embassy in those countries for their support and contribution.

The overall goal of this seminar is to summarize and disseminate the outputs of the project in regards to capacity building resulted from activities held by ICB-CCOP1 project. Each country will have opportunities to present their reports on the impacts that the project has on the development of capacity building in their organizations. In this occasion, we have the honor to welcome representatives from every active CCOP Member Country, Cambodia, China, Indonesia, Japan, Korea, Malaysia, Papua New Guinea, the Philippines, Thailand and Vietnam with attendance of most National Coordinators to the ICB-CCOP1 Project. This rare occasion presents a unique opportunity for all concerned to have a face-to-face gathering to discuss the current network and prospect of the future cooperation.

ICB-CCOP1 has been a perfect platform for the Member Countries, especially the case study countries,

to develop mutual cooperation, through the joint assessment of petroleum resource in the cross-border case studies, the Yinggehai-Song Hong Basin and the Sulu Sea-East Sabah basin. In sharing and integrating data, existing experience and knowledge, the countries have proved to be willing to contribute their efforts to make the joint study possible. The acknowledgement and credit should go to the National Coordinators and their research teams. After the completion of the final report containing contributions from every country, the dissemination seminars to inform the stakeholders of the countries hosting case studies will be held in the 4th Quarter of this year.

From the achievements and lesson learnt of the two case studies, the reachable prospect for the future is to develop a project with multi-lateral cooperation and eventually, a regional one. I am certain that with the connections that we have created and the strong foundation of existing and increasing CCOP network, the goal is not far-fetched at all.

Beside the meetings among the case study countries, the ICB-CCOP1 Project has also provided opportunities to all Member Countries to attend various activities whether in a form of workshop, seminar like this one, meeting, training course or expert visit. In these occasions, the Member Countries can come together to learn and share knowledge in the topics of interest with the purpose of enhancing capacity building and contributing to the sustainable development in the Petroleum sector in each country.

Recently, the first activity I had a chance to participate as the Director of CCOP Technical Secretariat was the Training course and expert visit in Digital Mapping held in Bali, Indonesia in June. During that short period of time, I had the opportunity to observe the roles of participants, resource persons and host country. The activity serves as an arena for participants to learn from the resource persons who were generously arranged by DANIDA through the Geological Survey of Denmark and Greenland (GEUS) and kind assistance from Mr. Ioannis Abatzis here. However, they also learn from each other and share the expertise and eventually become friends with the dedication of the host country to facilitate all the needs throughout the course of the training. What I have described in my experience showcases the regular scenario of other previous ICB-CCOP1 activities.

To conclude, I would like to thank the Danish Government through Royal Danish Embassy in Bangkok for their unwavering support for the project and for the gracious presence of His Excellency Mr. Michael Sternberg, the Ambassador of Denmark to Thailand, Cambodia and Burma (Myanmar). We are so honored that you can spare time to be here to grace this opening ceremony despite your tight schedule. Also special thanks to Mr. Samai Chiemchinda ratana, Deputy Permanent Representative of Thailand to CCOP and Inspector-General of Ministry of Natural Resources and Environment, Thailand attending on behalf of Mr. Apichai Chvachareonpun, Permanent Representative of Thailand to CCOP and Director-General of Department of Mineral Resources, Thailand for the continued support from the Royal Thai Government to CCOP.

There are also a lot of individuals whose contribution and dedication should be praised. Without them, we will probably not be sitting here at the final seminar of the ICB-CCOP1 Project in which the outputs are in the stage of being compiled and disseminated. First of all, I thank Mr. Ioannis Abatzis, Representative of Denmark to CCOP and senior advisor to ICB-CCOP1 Project for his untiring support and guidance. Mr. Chen Shick Pei, my predecessor, the previous Director of CCOP Technical Secretariat and Mr. Simplicio Caluyong, PPM Project Coordinator also played immensely significant role in the initial phase of the project and from then on, the great supporters of ICB-CCOP1 Project. I would like to congratulate Mr. Liu Liqun, the ICB-CCOP1 Project Coordinator for the job well-done. And last but not least, I thank CCOP Member Countries, the National Coordinators and their research teams for the cooperation, support and participation in the project activities and the case studies.

I wish you all a fruitful seminar and please enjoy your time and each other's company here in Phuket.

Thank you

## **Annex 5**

### **SPEECH BY AMBASSADOR OF DENMARK TO THAILAND, CAMBODIA AND BURMA (MYANMAR)**

**H.E. MR. MICHAEL STERNBERG**

**at the opening of CCOP-DANIDA  
Institutional Capacity Building Project ICB-CCOP1  
Seminar on Capacity Building during the Implementation of ICB-CCOP1 Project  
23 - 25 August 2007, Phuket, Thailand**

**Dr. Hee-Young Chun, Director of CCOP Technical Secretariat**

**Mr. Samai Chiemchindaratana, Deputy Permanent Representative of Thailand to CCOP and  
Inspector-General of Ministry of Natural Resources and Environment, Thailand on behalf of Mr.  
Apichai Chvachareonpun, Permanent Representative of Thailand to CCOP and Director-General  
of Department of Mineral Resources, Thailand**

**Mr. Ioannis Abatzis, Representative of Denmark to CCOP**

**Mr. Liu Liqun, Project Coordinator, ICB-CCOP1 Project**

**Distinguished delegates**

**Ladies and Gentlemen,**

It is a great pleasure for me to address you this morning here in Phuket at the opening ceremony of the concluding seminar on Capacity Building achieved by the DANIDA funded ICB-CCOP1 Project which is entering its final harvest season.

Denmark has been one of the cooperating countries of CCOP for over a decade now and in this period DANIDA has been supporting several CCOP Member Countries on a bi-lateral basis. However, to my knowledge, through the ICB-CCOP1 Project, this is the first time where DANIDA supports directly CCOP as an organization to the benefit of all its Member Countries something which aims on the regional economic growth and stability.

This 3-year project commenced in January 2005 and will be concluded by the end of this year. One of the ambitious objectives set for the ICB-CCOP1 Project was to promote and stimulate the regional cooperation and understanding through a series of cross-border case-studies where neighboring countries exchange and integrate relevant geoscientific knowledge and information.

I am also very pleased to hear that the ICB-CCOP 1 Project is a milestone in CCOP's history and it has set new standards in the form of cross-border cooperation between the CCOP Member Countries, and that it has been admired by other donor organizations which are willing to apply the same model during the implementation of their future development aid activities.

I called the objectives ambitious because in the past such cross-border cooperation was considered, if not unrealistic, then very difficult to be implemented, due to the vast importance the energy assets have for every nation around the world.

However, the ICB-CCOP1 Project has proven that when the mutual respect is maintained, then the cross-border cooperation, conducted in a climate of friendship and understanding, can provide a better picture of the geological set-up in the study areas, while the relationships among the CCOP Member Countries are enhanced, the partnerships are strengthened, and personal friendships are developed. All these contribute to the fulfillment of such an ambitious objective.

Such cross-border cooperation creates also new opportunities for the peaceful exploration and exploitation of the potential new petroleum resources, the optimum utilization of which can provide an essential factor for local and regional economic growth. This will then enhance the basic living conditions of the local people, thus contributing to the reduction of poverty something which is one of DANIDA's cross-cutting issues.

This is the case also for the Sulu Sea-East Sabah & Yinggehai-Song Hong Geological Basins, areas selected for the ICB-CCOP1 Project, where China, Indonesia, Malaysia, the Philippines and Vietnam have worked closely together for integrating geoscientific data and knowledge which resulted in a better understanding of the petroleum potentials in the region and which is supported by a series of new geological maps and information the dissemination of which will benefit not only the case-study countries directly involved but also the rest of the CCOP Member Countries and the region in general.

For achieving its objectives, the ICB-CCOP 1 Project has initiated and implemented a large number of activities which, among others, included workshops, field studies, training courses, seminars and meetings for sharing existing experience and enhancing the knowledge base. The project has also introduced and provided new working tools in form of cutting-edge technology which have contributed further to the capacity building within CCOP Member Countries.

The Danish Government, through DANIDA, is pleased to have supported the successful implementation of the ICB-CCOP 1 Project. This success, however, was not going to be possible without the valuable cooperation and contributions of the CCOP Member Countries in manpower, material and finance during the project implementation, as well as, the efficient coordination and financial management of the project by CCOP's Technical Secretariat. All these have really maximized the value of the funds provided by DANIDA for the project.

Ladies and gentlemen, as I was informed, the final technical meeting for the selected case-studies was conducted successfully here during the last couple of days. The geoscientific results, achieved through the fruitful and multi-disciplinary cooperation between Danish experts from GEUS and their regional and other international colleagues, were thorough reviewed and they are getting prepared for further dissemination. All these are clear indicators that the project is heading towards the successful fulfillment of its objectives and I would like to congratulate all of you for it. I want also to encourage you to continue working in the same spirit of regional cooperation and friendship to the conclusion of the project and beyond.

With these thoughts I declare the seminar opened and I wish you all a good meeting and a pleasant stay in Phuket.

Ladies and gentlemen, thank you very much for your attention.

## Annex 6



### CCOP-DANIDA Institutional Capacity Building Project ICB-CCOP1 Seminar on Capacity Building during the Implementation of ICB-CCOP1 Project 23-25 August 2007, Phuket, Thailand

## EVALUATION

To make an evaluation of the ICB CCOP 1 Project Seminar on Capacity Building during the Implementation ICB-CCOP1 Project which was conducted on 23-25 August 2007 in Phuket, Thailand. All participants were requested to fill up the evaluation form during the last day of the seminar. The evaluation results are presented as follows.

Description	Excellent			Unsatisfactory	
	5	4	3	2	1
1) Were the presenters well prepared?	13	16	3		
2) Seminar presentations	13	16	3		
3) Was the Seminar relevant to your job?	20	9	3		
4) Overall Seminar assessment	19	11	2		
5) Did you enjoy the Seminar?	20	11	1		
6) Did the Seminar meet your expectations?	15	16	1		
<b>7) Please clarify if you missed something.</b> <ul style="list-style-type: none"> <li>- Presentation done by each participants should be kept strictly</li> </ul>					
<b>8) How many people in your institution/company/organization will benefit from the seminar?</b> <b>(please give an estimation)</b> <ul style="list-style-type: none"> <li>- Average is around 30-40 people for each agency</li> </ul>					
<b>9) What changes do you think could be made to improve the Seminar?</b> (content , venue, facilities, etc.)? <ul style="list-style-type: none"> <li>- The venue is good. The facilities as well. Maybe the seminar can be improved by providing unlimited internet wireless connection.</li> <li>- Venue should be closed to shopping area/ local restaurants</li> <li>- More people from member countries can attend the seminars</li> <li>- Some presentation can be improved with more graphs and less text.</li> <li>- Seminar on gas hydrate, environment and economic issue of CO<sub>2</sub>/CBM</li> </ul>					

**10) Perspectives after the Seminar. How would you put value to the knowledge learned?**

- Learned the different strategy and the details of the strategy, methodology and output of the project case study.
- This is a good knowledge learned from the project implementation both experience and technology
- Invaluable as it provide insight on where oil and gas industry in each CCOP member countries
- Making new friends
- It is very good for the future work
- Very valuable information and knowledge have been gained from the seminar

**11) Comments on the food, accommodation and the venue for the seminar?**

- Accommodation and food are ok. Would be good if internet connection is free.
- Accommodation is comfortable but inconvenient for movement
- Venue is satisfactory but frequent block out and no internet access
- Providing Halal food just for a few Muslim participants are greatly appreciated.

**12) Suggestion of further topics of seminar**

- CO<sub>2</sub> issue in petroleum industry
- Geo-hazard in drilling
- Stress (mechanism) analysis and usage in HC Exploration
- Continue for another and more cross border study
- CBM
- High Pressure and High Temperature
- Deep water
- Gas Hydrate: Exploration and Utilization
- Resources and environmental issues
- Mud diaper forming mechanism