



PETRAD



Department of Mineral Fuels
MINISTRY OF ENERGY

CCOP-Norway Program for Enhancing Public Petroleum Management of the CCOP Member Countries (EPPM)

PROGRAMME LEAFLET

EPPM P2W4: Workshop on Regulatory Framework for Carbon Capture & Storage (CCS): with Focus on Storage into Geological Formations, HSE, CDM and Flaring

29 June- 1 July 2010, Phuket, Thailand

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CCOP – Norway Program for Enhancing Public Petroleum Management of the CCOP Member Countries (EPPM)

Project 2 (P2), Natural Gas Field Development and Environmental Issues

P2W4: Workshop on Regulatory Framework for Carbon Capture & Storage (CCS): with focus on storage into geological formations, HSE, CDM and Flaring

A. Objectives:

- To enhance the capacities of the CCOP Member Countries for a sustainable energy policy with CCS as part of the solution to global climate change. The workshop will focus on CCS legal and regulatory framework development to support the Member Countries' initiatives in CCS.

B. Workshop content:

1. Opening Ceremony with a Keynote speech on Global climate change & CCS
2. Technical Sessions
 - a. Regulatory framework for CCS
 - i. Norwegian CCS framework: within the NCS & overlapping areas
 1. History in regulatory development & milestones, including drivers
 2. Technical requirements & capacity enhancement, strategies for capacity building
 3. Issues and solutions (unique to upstream oil & gas) - particularly on monitoring, abandonment and liability issues
 4. Public awareness & involvement
 5. New proposals and outlook for the future
 - ii. European CCS framework : current & outlook for the future
 1. CCS in Europe & networking
 2. Mechanism for accelerating the deployment of CCS projects
 3. CCS law and plans for implementation
 4. Issues and solutions (unique to upstream oil & gas) - particularly on monitoring, abandonment and liability issues
 5. New proposals and outlook for the future
 - b. CCS regulations in the CCOP region and some countries outside CCOP
 - i. Enhancing the public's confidence on the technology - case studies and lessons learned
 - ii. Identifying legislative barriers for CCS implementation & solutions
 - c. Updates on the clean development mechanism
 - i. CDM & what has changed after the Copenhagen meeting 2009
 - ii. New proposals and outlook for the future
 - d. HSE in CCS
 - i. Identifying hazards in CCS project implementation – is existing HSE energy technologies enough?
 - ii. Risks and risk assessment
 - e. Gas flaring
 - i. Issues and solutions- new & applied technologies
 - ii. Impact to the economy
 - iii. Roles of industry and government
 - f. Group Discussion, consultation & presentations
3. Evaluation, awarding of certificates and closing ceremony
4. Field Trip

C. Participants & resource persons

1. Representatives from the CCOP Member Countries with background on the topic will be invited to participate in the workshop. Also to be invited are representatives from ASCOPE, NOC's of other Member Countries as well as academic institutions and research institutes.
2. Resources persons from the CCOP and PETRAD networks.

D. Date & Venue

1. Date: 29 June-1 July 2010, Phuket, Thailand

CCOP – Norway Program for Enhancing Public Petroleum Management of the CCOP Member Countries (EPPM)

Project 2 (P2), Natural Gas Field Development and Environmental Issues

P2W4: Workshop on Regulatory Framework for Carbon Capture & Storage (CCS): with focus on storage into geological formations, HSE, CDM and Flaring

E. Objectives:

- To enhance the capacities of the CCOP Member Countries for a sustainable energy policy with CCS as part of the solution to global climate change. The workshop will focus on CCS legal and regulatory framework development to support the Member Countries' initiatives in CCS.

F. Participants & resource persons

3. Representatives from the CCOP Member Countries with background on the topic will be invited to participate in the workshop. Also to be invited are representatives from ASCOPE, NOC's of other Member Countries as well as academic institutions and research institutes.
4. Resources persons from the CCOP and PETRAD networks.

G. Date & Venue

2. Date: 29 June-1 July 2010
3. Venue: Phuket, Thailand

AGENDA

TIME	ACTIVITY	RESPONSIBLE PERSON/ORGANIZATION
29 June, Tues		
0830	Registration	CCOP TS
0900	Opening Ceremony	
	Welcoming Remarks <ul style="list-style-type: none"> ○ CCOP TS ○ PETRAD 	Prof. Dr. He Qingcheng Director, CCOP TS Dr. Oystein Berg Managing Director, PETRAD
	Opening Remarks <ul style="list-style-type: none"> ○ Thailand 	Dr. Boonrasri Tongpenyai EPPM National Coordinator, Deputy Director General, Department of Mineral Fuels <i>(on behalf of)</i> Mrs. Pornthip Pucharoen Permanent Representative of Thailand to CCOP Director General Department of Mineral Resources Ministry of Natural Resources and Environment

	Exchange of Tokens Group Photo	CCOP TS
0930	Coffee/tea break/networking	
1000	Introduction & Background of the Workshop - Update on EPPM	Mr. S. P. Caluyong EPPM Coordinator, CCOP TS
1030	CCS Regulations in Norway <ul style="list-style-type: none"> ○ What is CCS? Its impact to environment & society ○ Public awareness ○ Monitoring ○ Existing and planned CCS Projects ○ EU directives & other directives/guidelines ○ CCS Challenges & Outlook for the future 	Mr. Øyvind Christophersen Senior adviser Climate and Pollution Agency Norway
1130	Movie: “Billion Dollar Bonfire”	CCOP TS
1200	Lunch Break/networking	
1330	Gas Flaring <ul style="list-style-type: none"> ○ Issues and solutions- new & applied technologies ○ Impact to the economy ○ Roles of industry and government ○ Case studies & lessons learned 	Mr. Øyvind Christophersen
1410	Regulating the Safety and Effectiveness of CO₂ Storage <ul style="list-style-type: none"> ○ CCS guidelines & directives ○ Risks & risk management workflow ○ Case studies & lessons learned ○ The Dutch experience about CCS legislation & role of TNO <ul style="list-style-type: none"> ○ Challenges & solutions 	Mr Gijs Remmelts TNO, The Netherlands
1500	Coffee/tea break/networking	
1530	Update on Climate Negotiations and Future of market mechanisms	Mr. Torleif Haugland Carbon Limits, Norway
1700	Summary of Day 1/ End of Day 1	EPPM Program Coordinator
1830	Welcome Dinner (smart casual)	Hosted by DMF
		Venue: Pong-Pang Restaurant
30 June, Wed		
0830	Order of the day & announcements from the Chairperson	EPPM Program Coordinator
0840	How can more oil & gas investments benefit from the CDM? <ul style="list-style-type: none"> • What are the barriers? • Why O & G is radically underrepresented in CDM? 	Mr. Torleif Haugland
0920	CCOP Member Country Presentation (~20 min including Q & A)	Member Countries

	<ul style="list-style-type: none"> ○ Current status of CCS regulations & challenges ○ CO2 regulations (including flaring from O & G activities) ○ CO2 sources and possible capture technologies ○ Potential areas for CCS ○ Legislative barriers for CCS implementation & solutions ○ Future of CCS in your Country 	
1000	Coffee/tea	
1020	Continue with Country Presentations	Member Countries
1200	Lunch	
1330	Workshop/Group Discussion/Presentation <ul style="list-style-type: none"> ○ Role of CCS ○ The CCS challenges & challenges in the regulatory framework ○ Solutions & Way Forward ○ Forging effective all-sector partnership 	All Participants & Resource persons
1500	Coffee/tea	
1520	Group Presentation	Group Representative
1600	Summary of the Workshop & Way Forward	EPPM Coordinator
1630	Workshop Evaluation	
1640	Closing Ceremony <ul style="list-style-type: none"> ○ Announcement for the field trip ○ Awarding of Certificates ○ Closing speech 	EPPM Coordinator
1700	End of Workshop	
1830	Farewell Dinner (smart casual)	Hosted by CCOP TS
		Venue: Tai-Nan Restaurant
1 July, Thurs	Field Trip around Phuket	Hosted by CCOP TS




EPPM Project 2 Workshop 4




Workshop on Regulatory Framework for Carbon Capture & Storage (CCS): with focus on storage into geological formations, HSE, CDM and Flaring

29 June-1 July 2010,Phuket,Thailand


DISTINGUISHED GUESTS






NAME	POSITION / ADDRESS
<p>DR. BOONRASRI TONGPENYAI</p> 	<p>EPPM National Coordinator Deputy Director General Department of Mineral Fuels (DMF) Ministry of Energy, Shinawatra Tower III 25th Fl., 1010 Viphavadi Rangsit Rd., Chatuchak Bangkok 10900, Thailand Tel: (66 2) 791 8308, Fax: (66 2) 791 8309</p>
<p>PROF.DR. HE QINGCHENG</p> 	<p>Director CCOP Technical Secretariat CCOP Building 75/10 Rama VI Road, Phayathai, Ratchathewi, Bangkok 10400, Thailand Tel: (66) 2 644 5468 Fax:(66)2 644 5429</p>
<p>DR. ØYSTEIN BERG</p> 	<p>Managing Director International Programme for Petroleum Management and Administration (PETRAD) Prof. Olav Hanssensv. 10 P.O. Box 600, N-4003 STAVANGER, Norway Tel: +47 51 87 61 39, Fax: +47 51 87 64 28 Mobile : +47 90 87 82 55</p>

RESOURCE PERSONS





NAME	POSITION / ADDRESS
MR. ØYVIND CHRISTOPHERSEN 	Senior Advisor Climate and Pollution Agency PO Box 8100 Dep, N-0032 Oslo, Norway Telephone: +47 22 57 34 00 TEL (direct): +4722573724
MR. GIJS REMMELTS 	Senior Geologist TNO Built Environment and Geosciences Geological Survey of the Netherlands Advisory Group Ministry of Economic Affairs Pincetonlaan 6, P.O. Box 80015 3508 TA Utrecht, The Netherlands Tel : + 31 30 2564528
MR. TORLEIF HAUGLAND 	Managing Director, Carbon Limits AS, PO Box 4814 Nydalen, NO-0422 OSLO Norway Tel: +47 90 55 11 37

PRELIMINARY LIST OF PARTICIPANTS

NAME	POSITION / ADDRESS
CAMBODIA (no nominee)	
CHINA	
1) MR. DAI JINYE 	Vice President Exploration and Production Research Institute Sinopec No.31 Xueyuan Road, Haidian District, Beijing, China Tel.: 010-82312962 Fax. : 010-82312962



<p>2) MRS. ZHU XUEQIAN</p> 	<p>Senior Engineer Exploration and Production Research Institute Sinopec No.31 Xueyuan Road, Haidian District, Beijing, China Tel.: 010-82282461 Fax.: 010-82282471</p>
<p>3) MRS. LU XUEMEI</p> 	<p>Editor and Translator Exploration and Production Research Institute Sinopec No.31 Xueyuan Road, Haidian District, Beijing, China Tel: 010-82312029 Fax.: 010-82312029</p>
INDONESIA	
<p>4) MR. FAKHRIYADI SAPTONO</p> 	<p>Acting Head of EOR Group PPPTMGB "LEMIGAS" Jl. Ciledug Raya Cipulir, Kebayoran Lama Jakarta, Indonesia Tel : +622 17394422 ext:1421 Fax: +622 17202109</p>
<p>5) MR. DIKDIK PRIBADI</p> 	<p>Sub Division Program Center for Geological Survey Geological Agency Ministry of Energy and Mineral Resources Jl. Diponegoro 57,Bandung 40122 West Java, Indonesia Tel: +62-22- 720 3205 Fax: + 62-22 720 2669</p>
JAPAN	
<p>6) DR. SHINSUKE NAKAO (Speaker)</p> 	<p>Leader of CO2 Geological Storage Research Group Geological survey of Japan, AIST Address: AIST Central 7 Tsukuba, 305-8567 JAPAN Tel : 81-29-861-3955</p>

KOREA	
<p>7) DR. YONG-CHAN PARK (Speaker)</p> 	<p>Senior Researcher Korea Institute of Geoscience & Mineral Resources (KIGAM) Gajeong-dong 30, Yuseong-gu, Daejeon, 305-350, Korea Tel : 82-42-868 3124 Fax : 82-42-868 3414</p>
<p>8) DR. YUM BYOUNG WOO</p> 	<p>Executive Director Korea Institute of Geoscience & Mineral Resources 92 Gwahang-no, Yuseong-gu, Daejeon, 305-350 Korea Tel: 82-42-868-3375 Fax: 82-42-868-3414</p>
MALAYSIA	
<p>9) MR. ZOHAIREN B MUHAMAD SORI</p> 	<p>Manager Technology Management, TCDM, Petroleum Management PETRONAS Level 62, Tower 2, PETRONAS Twin Towers Kuala Lumpur City Centre 50088 Kuala Lumpur, Malaysia Tel. : 603-23314052 Fax : 603-23315956</p>
<p>10) MR. AHMAD NAHRAWI MOHD</p> 	<p>General Manager Drilling PETRONAS Level 27, Tower 1, PETRONAS Twin Towers Kuala Lumpur City Centre 50088 Kuala Lumpur, Malaysia Tel. : +6012-3257165 Fax : +603-23313168</p>
PAPUA NEW GUINEA (no nominee)	

PHILIPPINES	
<p>11) MR. REDENTOR PASCUAL</p> 	<p>Supervising Science Research Specialist Department of Energy Energy Center, Merritt Road, Fort Bonifacio, Taguig City Philippines Tel: (+63 2) 812 4016 Fax: (+63 2) 840 2206</p>
<p>12) MR. NEIL O. PESA</p> 	<p>Senior Geoscientist Department of Energy Energy Center, Merritt Road, Fort Bonifacio, Taguig City Philippines Tel: (+63 2) 812 4016 Fax: (+63 2) 840 2206</p>
THAILAND	
<p>13) DR. SIREE NASAKUL</p> 	<p>Senior Petroleum Engineer Department of Mineral Fuels (DMF) Ministry of Energy, Shinawatra Tower III 24th Fl., 1010 Viphavadi Rangsit Rd., Chatuchak Bangkok 10900, Thailand Tel: (66 2) 791 8300 ext. 6334 Fax: (66 2) 791 8340</p>
<p>14) MR. WISUT PUNNAHITANON</p> 	<p>Senior Petroleum Engineer Department of Mineral Fuels 24th Floor, Shinnawatra Tower 3 Vibhawadi Rangsit Rd., Chatuchak Bangkok 10900, Thailand Tel: (662) 791 8300 ext. 5202 Fax: (662) 791 8357</p>

<p>15) DR. WITSARUT THUNGSUNTONKHUN</p> 	<p>Senior Petroleum Engineer Department of Mineral Fuels (DMF) 24th Floor, 1010 Shinawatra Tower 3 Vibhavadi Rangsit Road Chatuchak, Bangkok 10900 Thailand Tel: (66) 2 791 8353 Fax: (66) 2 791 8348</p>
<p>16) DR. TRIN INTARAPRASONG</p> 	<p>Geologist Department of Mineral Fuels Ministry of Energy, Shinawatra Tower III, 24th Fl., 1010 Vibhavadi Rangsit Rd., Chatuchak, Bangkok 10900, Thailand Tel: (66 2) 791 8300 ext.5205 Fax: (66 2) 791 8357</p>
<p>17) MS. KLEAWPHAN SILALAK</p> 	<p>Legal Officer Department of Mineral Fuels 24th Floor, Shinnawatra Tower 3 Vibhawadi -Rangsit Rd., Chatuchak Bangkok 10900, Thailand Tel: (662) 791 8300 ext.7325 Fax: (662) 791 8328</p>
<p>18) MR. SUWAT TIYAPAIRACH</p> 	<p>Senior Geologist Bureau of Geological Survey, Department of Mineral Resources 75/10 Rama VI Road, Phayathai, Ratchathewi, Bangkok 10400, Thailand Tel : (662) 621- 9839 Fax: (662) 621- 9651</p>
<p>19) MR. CHOENGCHAI KRAIKHONG</p> 	<p>Senior Geologist Bureau of Geological Survey Department of Mineral Resources 75/10 Rama VI Road, Phayathai, Ratchathewi Bangkok 10400, Thailand Tel : (662) 621- 9670, Fax: (662) 621- 9651</p>

<p>20) MR. APICHART PAIYAROM</p> 	<p>Geologist Department of Mineral Resources 75/10 Rama VI Road Phayathai, Ratchathewi Bangkok 10400, Thailand Tel : (662) 621- 9411 Fax: (662) 621- 9612</p>
<p>21) MS. PATCHARA SANGOEN</p> 	<p>Geologist Department of Mineral Resources 75/10 Rama VI Road Phayathai, Ratchathewi Bangkok 10400, Thailand Tel : (662) 621- 9817-9 Fax: (662) 621- 9820-1</p>
<p>22) DR. PAWEENA PANICHATAPICHET</p> 	<p>Assistant Senior Official Thailand Greenhouse Gas Management Organization 120 Building B, 9th Floor. The Government complex. Commemoration His Majesty Chaeng Wattana Rd, Laksi, Bangkok, Thailand 10210 Tel: (662) 141-9841, Fax: (662) 143- 8404</p>
TIMOR LESTE	
<p>23) MR. AMANDIO GUSMÃO SOARES</p> 	<p>EPPM National Coordinator Director of Policy Secretary of State for Natural Resources 1st Floor Fomento Building, Dili, Timor-Leste Tel: (670) 331 7142, Fax: (670) 331 7141</p>
VIETNAM	
<p>24) MRS. VU HOANG HOA</p> 	<p>Deputy General Manager Health-Safety Environment Division PETROVIETNAM, 18 Langha, Ba Dinh, Hanoi, Vietnam Tel: (84-4) 3825 2526, Fax: (84-4) 3826 5942</p>

<p>25) MR. DANG DUY CHUNG</p> 	<p>Officer Gas Division PETROVIETNAM, 18 Langha, Ba Dinh, Hanoi, Vietnam Tel: (84-4) 3825 2526 Fax: (84-4) 3826 5942</p>
ASCOPE	
<p>26) MRS. SARINTIP VAEWHONGS</p> 	<p>Vice President Environmental Research and Management Department PTT Research and Technology Institute PTT Public Company Limited 555 Vibhavadi Rangsit Rd., Chatujak , Bangkok 10900,Thailand Tel: +66(0) 8-1828-0360 Fax: +66(0)2537-3000 ext. 8230</p>

<p>CCOP TECHNICAL SECRETARIAT CCOP Building 75/10 Rama VI Road, Phayathai, Ratchathewi, Bangkok 10400, Thailand Tel: (66) 2 644 5468, Fax: (66) 2 644 5429 to 31</p>	
<p>MR. SIMPLICIO P. CALUYONG</p> 	<p>EPPM Project Coordinator CCOP T/S Mob: (66-81) 827 0527</p>
<p>MS. PETCHARAT SARAWISUTRA</p> 	<p>Programme Manager, Technical Programme Division CCOP T/S Mob: (66-81) 823 3729</p>
<p>MS.PIMPAWEE BOONMARAT</p> 	<p>Assistant to Technical Programme Division CCOP T/S</p>

RESOURCE PERSONS' SHORT CV - by alphabetical order



MR. ØYVIND CHRISTOPHERSEN

Senior Advisor

Climate and Pollution Agency

PO Box 8100 Dep, N-0032 Oslo, Norway

Telephone: +47 22 57 34 00

TEL (direct): +4722573724

Short Bio data :

Areas of expertise

- Climate Change (science, impacts, adaptation and mitigation strategies; measures and policy instruments)
- Carbon Capture and Storage
- Energy Sector, development of new technology and of international regulatory framework for climate change mitigation options
- Environmentally friendly energy production and use

Academic background and positions held

2001- Climate and Pollution Agency/Norwegian Pollution Control Authority

1980-2001 Ministry of Environment, Department for International Cooperation, Section for

1979/80 Studies in Environmental Science, University of Oslo

1977-80 Det norske Veritas

1976 M.Sc. Applied Physics, Norwegian University of Science and Technology, Trondheim



MR. TORLEIF HAUGLAND

Managing Director, Carbon Limits

FULL ADDRESS : Carbon Limits, PO Box 4814 Nydalen, NO-0422 OSLO

TEL : + 47 90 55 11 37

Short Bio data :

Torleif Haugland has broad experience in energy and environmental analysis. He has worked as a researcher in energy economics and been five years at the International Energy Agency (IEA) (1984 –1989). From 1989 to 2008 he played a key role in building ECON (now ECON Pöyry) into a major Scandinavian consultancy with more than 100 employees (5 in 1989)

Torleif Haugland has managed a large number of multi-disciplinary and complex projects on international energy and environment policies, climate change, energy sector liberalisation, petroleum industry social responsibility, and development assistance. He has contributed to numerous professional articles and books. He was the principal author of the book Energy Structures and Environmental in Europe published by Oxford University Press in 1998. Although having worked on climate change issues since 1991 this has been his main focus for last 5 years with emphasis on transactions in emissions allowances and carbon credits under the Kyoto Protocol.

He is a co-founder and currently the Managing Director of Carbon Limits. Carbon Limits was initially a part of ECON but has been independent of ECON since 2007. Carbon Limits is a leader in development of carbon credits within the petroleum sector.



MR. GIJS REMMELTS

Senior Geologist, TNO

P.O. Box 80015 3508TA, Utrecht, Netherlands

Tel. +31 30 256 4528

Short Bio data

Senior Geologist with TNO (applied technology research institute, 4500 empl.). 25 years of experience in E&P. Consultant for Ministry of Economic affairs on technical matters concerning mining (oil and gas) in the Netherlands. Main topics are consultancy on licence applications, production plans, reserves assessment and CCS.

Recent projects on CCS concern reporting on matched storage capacity in the Netherlands relating CO₂ capture and availability of storage facilities until 2050. This will be input for the Masterplan for CCS in the Netherlands. Furthermore the evaluation of site selection for the planned Barendrecht storage facility (first onshore CCS project in the Netherlands), the evaluation of the storage plan for the Barendrecht facility and the selection of potential storage facilities for large scale demonstration projects in the Northern Netherlands

SPEAKERS' SHORT CV - by alphabetical order



DR. SHINSUKE NAKAO

Leader, CO2 Geological Storage Research Group,
Geological Survey of Japan,
Research Institute of Advanced Industrial Science and Technology (AIST)
ADDRESS : AIST Central 7, Tsukuba, Ibaraki, 305-8567, Japan
TEL : +81-29-861-3955, +81-29-861-3659

Short Bio Data:

Shinsuke Nakao obtained B.S. in Engineering from the Kyoto University in 1985.

After joining Geological survey of Japan, AIST in 1986, he was engaged in research works on hydrological characterization of fractured geothermal reservoir by means of well test analysis and seismic exploration methods. He received a Doctor of Engineering degree from the Kyoto University in 2000.

From 1995 to 1997, as a visiting researcher at Lawrence Berkeley National Laboratory in USA, he conducted collaborative research works on "hydraulic well testing inversion method aiming hydrological characterization of fractured rocks.

From 1998 to 2007, as a senior research scientist, he conducted collaborative research works with Japan's geothermal developers to monitor and model geothermal reservoirs of existing geothermal power plants.

From 2007 to April 2009, he was temporarily transferred to Ministry of Economy, Trade and Industry (METI) as a deputy director to work on the IPCC Working III issues and CCS R&D related issues in Japan.

From May 2009, he has been in the present position.



Dr. YONG-CHANPARK

Current Position: *Senior Researcher*, Korea Institute of Geoscience & Mineral Resources
Tel: +82-42-868-3124 +82-10-3224-1214

Degrees obtained

1. Master's in Mining & Mineral Resources, Hanyang University, Korea, 1995;
2. Ph.D. in Mining & Mineral Resources(Petroleum Engineering), Hanyang University, 2000

Employment and experience history

1. 2001-2002, *Post-Doctoral course* at the Research Institute of Industrial Science, Hanyang University;
2. 2003-present, *Senior researcher*, Korea Institute of Geoscience & Mineral Resources;
3. 2006-2007, *Visiting-scholar*, Laboratory of Computational Fluid Dynamics at Osaka University, Japan
4. 2007-present, *Committee Member*, CO2CRC Program Advisory Committee, Australia

Fields of research:

1. CO2 geological storage; 2. Reservoir simulation; 3. Core flooding.
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PETRAD'S REPRESENTATIVE



Dr. Øystein Berg

Managing Director, PETRAD

Address:

PETRAD

Prof. Olav Hanssens vei 10, P.O. Box 598, N-4003, Stavanger, Norway

Tel. +47 51 876139, Mob. +47 48 050750

Dr. Øystein Berg

Dr. Berg holds a BSc in Civil Engineering from Queens University of Belfast, Northern Ireland, as well as a Postgraduate Diploma in Industrial Administration and PhD in Business Administration from The Management Centre, Bradford, England.

Dr. Berg worked as a Management Consultant for the IKO Consultancy Group from 1976 to 1978. He was then appointed by the Norwegian Petroleum Directorate as Project Manager for 1/3 of the largest Safety Research Programme ever undertaken in Norway, 'Safety on the Norwegian Continental Shelf'. Dr. Berg was managed a total of 51 R&D projects from 1978 until 1981.

Between 1981 and 1989, Dr. Berg held various positions in the Norwegian Petroleum Directorate such as Director for the Department of Marine Technology, Director of the Strategy Department in the Safety Division and also deputized as Director of Safety.

In 1989 Dr. Berg was called upon by the Norwegian Government to develop the Petrad Programme (International Programme for Petroleum Management and Administration). Currently Dr. Berg serves as Managing Director for Petrad.

Dr. Berg has participated in a large number of national and international advisory committees in the petroleum sector and within R&D. He has since 1984 been Advisor to Government Agencies and National Oil Companies in East and South East Asia through the CCOP and ASCOPE Organizations. Prior to establishing Petrad, Dr. Berg also lectured on topics related to industrial maintenance, risk and reliability and safety in the offshore petroleum industry in USA, Asia and Europe.

Dr. Berg received in 2004 the "Friendship Award" from the Chinese Government for long standing cooperation on knowledge transfer in the petroleum sector. This is the highest award given to foreigners by the Chinese Government.

Dr. Berg was in May 2006 appointed to the Academic Advisory Board of University Teknologi Petronas, Malaysia, under the Chairmanship of former Prime Minister of Malaysia, Dr. Mahathir Mohamed. From 2007 Dr. Berg has been a member of the 3 man nominations committee for the Malaysian 'Merdeka Award' – Health, Science and Technology category.

NOTE FOR INFORMATION

Accommodation	<p>Kata Beach Resort & Spa Address: 1 Pakbang Road, Tambon Karon Maung District, Phuket 83100,Thailand Tel: (66) 76 330 530-4 Fax: (66) 76 330 942 Website: www.katagroup.com</p>
CCOP Group Hotel Room Rates	<p><u>Superior Single &Twin rooms: THB 2,000.-</u> nett / room / night (incl. ABF)</p> <p><i>The above rates are inclusive of service charge and government tax. Upon checking in at the hotel, delegates may be requested to provide your credit card imprint or cash payment for one-night accommodation for guarantee. Please be prepared for such request.</i></p> <p>CCOP, as the organizer, will reserve the hotel rooms on behalf of all delegates. Single rooms will be automatically reserved for each nominated delegate both sponsored and own-cost unless requested otherwise. Cancellation of room or no show will incur one night room charge which will fully be borne by the delegate. Any inquiry in regard to room reservation should be directed to the organizer.</p>
Meeting Venue	Kanda HALL A & B Rooms
Meeting Package	2 coffee breaks and 1 Buffet Lunch during the workshop will be sponsored by the project to both sponsored and own-cost delegates.
Internet in the guest room	1 hour 200 baht, 3 hours 450 baht, and can also be applied & connect to Wi-Fi at public area of the hotel. The internet hours can be accumulated within 1 month after registration.
Evening Functions	<p>Welcome Dinner on Tuesday 29 June (kindly hosted by Department of Mineral Fuels, Thailand)</p> <p>Farewell Dinner on Wednesday 30 June (kindly hosted by CCOP-EPPM)</p> <p>Details to be announced, Round-trip transport from Hotel will be provided, if required</p>
Airport Transfer	<p>Round-trip transfer service is arranged to both sponsored and own-cost foreign delegates according to their flight schedules. Representatives will waiting for you at the Arrival Hall at Phuket Airport with CCOP signage.</p> <p>Note: Passengers no longer have to pay airport departure tax in Thailand.</p>
Visa Requirements	<p>Delegates will receive “Acceptance Letter” issued by the CCOP as organizer via fax and/or E-mail for the travel approval from their organizations and /or to apply & obtain entry visa to Thailand in advance, if it is required.</p> <p>Note: The delegates must possess a passport valid for at least six months upon arrival.</p>

Sponsorship	<p>Daily Subsistence Allowance (DSA): will be distributed to sponsored participants at registration on Tuesday 29 June from 8:30-9:00 am. This DSA covers accommodation (based on single occupancy rate), meals and any incidental expenses. Sponsored participants are to settle the payment of their room and personal expenses with the hotel directly. In case of compulsory overnight transit, the cost of extra nights will also be calculated into the DSA and assistance can be provided for hotel reservation.</p> <p>Air-tickets: Sponsored participants are kindly requested to purchase the air-ticket for reimbursement upon the provision of original receipt indicating CCOP-approved airfare.</p>
1-Day Excursion	1-day excursion will be organized and sponsored by CCOP-EPPM. The programme will be announced later.
Travel Insurance	Delegates are strongly recommended to obtain the travel insurance plan that suits their needs.
Activity Record	A USB drive will be provided to all participants to record the presentations, final name list with contact details of delegates and pictures.
Currency	USD 1 ~ THB 33.- (as of May 2010)
Climate	Rainy Season, temperature is 27-33°C
Time Zone	GMT+8
For more information, please contact	<p>Mr. Simplicio P. Caluyong EPPM Project Coordinator CCOP Technical Secretariat CCOP Building 75/10 Rama VI Rd., Phayathai, Ratchathewi, Bangkok 10400, Thailand Tel: +66 (0) 2644 5468 ext. 503, Fax: +66 (0) 2644 5431, Mobile +66 (0) 81 827 0527 Skype: Sim Caluyong</p>

SHORT NOTE:

SHORT NOTE:



PETRAD – INTERNATIONAL PROGRAMME FOR PETROLEUM MANAGEMENT AND ADMINISTRATION

Petrad is a Norwegian Government Foundation established in 1989 to facilitate sharing of knowledge and experience on Petroleum Management, Administration and Technology between managers and experts within Governments and National Oil Companies.

Petrad arranges tailor-made courses and seminars covering a wide range of topics on the management of petroleum resources. The activities are conducted in Norway and abroad lasting from 1 day to 10 weeks. The courses and seminars have a practical focus.

Petrad also conducts Training Needs Assessments and assistance with Institutional Development.

Petrad draw on resource persons and lecturers from the total Norwegian and International petroleum industry. They hold considerable experience from senior managerial and technical positions with Government, Operating-, Engineering- and Service Companies, Consultancies, R&D Institutions and Universities.

Petrad has arranged a total of more than 400 courses and seminars with more than 14.000 participants from 103 countries.

PETRAD PRODUCTS & SERVICES

<p>8-WEEK COURSES (Stavanger, Norway – annually) - Petroleum Policy and Resource Management - Petroleum Development and Operations</p> <p>TRAINING MODULES (World wide – on request) - Policy and Management of Petroleum Sector development - Good Governance - Resource management - Revenue management - Environment management - Legislation - Licensing - Contracts for the Petroleum Sector - Local Content - Anti-corruption - Petroleum Sector Understanding for the Civil Society - Fiscal Metering - Data Management - Downstream Petroleum Management - HSE - Health, Safety and Environment Management</p>	<p>TAILOR MADE SEMINARS (World Wide – on request) - All topics within petroleum management, administration and technology</p> <p>TNA – TRAINING NEEDS ASSESSMENT (World Wide – on request)</p> <p>INSTITUTIONAL DEVELOPMENT (World Wide – on request)</p>
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