



PETRAD



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

PROGRAMME LEAFLET

EPPM P2W3: Workshop on the Use of CO₂ for IOR and EOR and Gas Hydrates as Potential Energy Source

8-11 December 2009, Danang, Vietnam

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

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

P2W3: Workshop on the Use of CO₂ for EOR and IOR and Gas Hydrates as Potential Energy Source , Danang, Vietnam, 8-11 December 2009

To be organized in partnership with CCOP, PETRAD and PETROVIETNAM

A. Objectives:

- To develop the capacities of the CCOP Member Countries regarding the development of natural gas with high CO₂, capture and use of CO₂ for EOR/IOR, and gas hydrates as potential energy source.

B. Workshop content:

1. Opening Ceremony
2. Technical Sessions
 - a. Capture and use of CO₂ for IOR and EOR
 - i. Technologies for IOR/EOR and possible enhanced gas recovery (EGR) – why is this important?
 - ii. Screening and criteria for selecting IOR/EOR/EGR projects
 - iii. Gathering, transportation and storage options
 - iv. Capture from power plants and other industries
 - v. The CO₂ value chain
 1. Drivers for investments in the CO₂ value chain
 2. Opportunities for GHG mitigation & creating a new industry for wealth creation for national benefit
 3. Challenges and solutions
 4. Roles of Government & Industry
 - vi. Risk & uncertainties
 - vii. Economics and Legal framework
 - viii. Case studies and lessons learned
 - b. Gas hydrates as potential energy
 - i. Exploring for gas hydrates: technologies & best practices
 - ii. Case study(s) : Production of gas hydrates
 1. Economics
 2. Risk and uncertainties – impact to the environment
 3. What are the challenges & possible solutions?
 - c. 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 (through PETROVIETNAM).
2. Resources persons from the CCOP and PETRAD networks.

D. Date & Venue

1. Date: 8-11 Dec 2009
2. Venue: Danang, Vietnam

Program

Day 1: 8 Dec 2009, Tuesday		
0800	Registration	CCOP TS
0830	Opening Ceremony	CCOP TS
	<p>Welcoming Remarks</p> <p>By Mr. Simplicio P. Caluyong EPPM Coordinator, CCOP Technical Secretariat</p> <p>By Dr. Øystein Berg Managing Director, PETRAD</p> <p>Opening Address</p> <p>By Dr. Nguyen Van Minh Deputy Permanent Representative of Vietnam to CCOP Vice President of PETROVIETNAM</p>	
	Exchange of tokens	CCOP TS
	Group Photo session	CCOP TS
0900	Coffee/tea break & networking	
0930	Keynote Address "Capabilities in IOR"	Ms. Eva Ljosland Regional Director, INTSOK Norway
1015	Workshop Introduction <ul style="list-style-type: none"> - Background & housekeeping - Updates on the EPPM Program 	Mr. S. P. Caluyong EPPM Coordinator, CCOP TS
1100	CO ₂ storage in general (feasibility studies. Storage capacities, etc) with CO ₂ EOR in particular <ul style="list-style-type: none"> - Introduction to CCS as well as CO₂ EGR and EOR 	Dr. Cor Hofstee, Technology Manager/ Reservoir Engineer, TNO Geo-Energy, The Netherlands
1200	Lunch	
1300	Vietnam presentation 1: Status of oil and gas development & production	Mrs. Le Thi Thu Hang, PETROVIETNAM
1345	Vietnam presentation 2: Development of natural gas field with high CO ₂	Mr. Vu Thanh, PETROVIETNAM
1415	CO ₂ injection: IOR and sequestration – part I	Dr. Leonid Surguchev, Senior Vice President, IRIS
1500	Coffee/tea	
1530	CO ₂ injection: IOR and sequestration – part II	Dr. Leonid Surguchev, Senior Vice President, IRIS
1615	Summary for Day 1	EPPM Coordinator & Resource Persons
1830	Welcome Dinner (smart casual, venue to be announced-tba)	Kindly hosted by PETROVIETNAM
Day 2: 9 Dec 2009, Wednesday		
0830	CO ₂ for EOR / IOR / EGR in the CCOP Member Countries <ul style="list-style-type: none"> - China, Dr. Xu Ting - Indonesia, Mr. Sugihardjo - Malaysia, Dr. Khalik Bin Mohamad Sabil 	
1000	Coffee/tea break	
1030	Continue with CCOP country presentations + Q & A	
1100	IOR techniques using hydraulic optimization/EOR	Dr. Cor Hofstee, Technology Manager/ Reservoir Engineer, TNO Geo-Energy, The Netherlands

1130	Novel concept of in-situ hydrocarbons reforming to hydrogen - Clean energy source - No CO ₂ emissions to atmosphere	Dr. Leonid Surguchev, Senior Vice President, IRIS
1200	Lunch	
1300	Air injection to improve oil recovery from low permeable and mature light oil reservoirs: - replacement for hydrocarbon, CO ₂ , N ₂ and other gas injection EOR processes - Modelling air injection process	Dr. Leonid Surguchev, Senior Vice President, IRIS
1400	Workshop 1: Accelerating the deployment of EOR/IOR/EGR - Roles of the Governments - Conveying the message to the Government - Role of CCOP as a regional agency for capacity building	
1500	Coffee/tea	
1530	Continue with Workshop 1 & presentation	Member Countries
1630	Summary for Day 2	Mr. S. P. Caluyong EPPM Coordinator & Resource Persons
	Day 3: 10 Dec 2009, Thursday	
0830	Exploring for Gas hydrates - Mapping of hydrates - Technology in exploring for hydrates - Risk and uncertainties	Prof. Bjorn Kvamme University of Bergen, Norway
0930	Gas hydrates projects in Korea	DR. Jong Hwa Chun KIGAM
1000	Coffee/Tea	
1030	Gas hydrates production – case studies (pilot projects) & lessons learned	Prof. Bjorn Kvamme University of Bergen, Norway
1115	Workshop 2: Accelerating the deployment of gas hydrates projects - Strategies for the deployment - Roles of the industry and Government - Conveying the message to the Governments	
1200	Lunch	
1300	Continue with Workshop 2 & presentations	
1430	Workshop summary & Way forward	Mr. S.P. Caluyong EPPM Coordinator, CCOP TS
1500	Coffee / tea	
1530	Workshop evaluation & Closing ceremony - Evaluation - Awarding of certificates - Brief presentation of the field trip - Closing remarks	CCOP TS/PETRAD
1830	Farewell Dinner	Hosted by CCOP TS
	Day 4: 11 Dec 2009, Friday	
	Field Trip	








EPPM Project 2 Workshop 3:
Workshop on the use of CO₂ for IOR & EOR and Gas Hydrates
as Potential Energy Source
8-11 December 2009, Danang, Vietnam






DISTINGUISHED GUESTS

NAME	POSITION / ADDRESS
<p>DR. NGUYEN VAN MINH</p> 	<p>Deputy Permanent Representative of Vietnam to CCOP Vice President of PETROVIETNAM PETROVIETNAM No. 18, Lang Ha Street, Ba Dinh District, Hanoi Socialist Republic of Vietnam Tel: (84-4) 37725875 Fax: (84-4) 38265942 E-mail: minhvn@pvn.vn</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 Mob: +47 90 87 82 55 E-mail: oystein.berg@petrad.no</p>

RESOURCE PERSONS

NAME	POSITION / ADDRESS
<p>1) MS. EVA LJOSLAND</p> 	<p>INTSOK Regional Director, Angola and Kazakhstan Hoffsveien 23 P.O Box 631 Skøyen N-0214 Oslo, Norway Tel.: +47 22 06 14 81, Mobile: +47 97 69 08 27 Fax: +47 22 06 14 90 E-mail: eva.ljosland@INTSOK.com Website: www.intsok.com</p>

<p>2) DR. LEONID M. SURGUCHEV</p> 	<p>Senior Vice President International Research Institute of Stavanger (IRIS) Lysaker Torg 25, Postboks 418, 1327 Lysaker, Oslo, Norway Mobile: (+47) 90 10 37 15 Fax: (+47) 67 10 72 10 E-mail: Leonid.Surguchev@iris.no Website: http://www.iris.no</p>
<p>3) PROF. BJØRN KVAMME</p> 	<p>Professor Department of Physics and Technology University of Bergen Allegt. 55, N-5007 Bergen, Norway Tel. +47 55 583310 Mobile. +47 93 451956 E-mail: bjorn.kvamme@ift.uib.no</p>
<p>4) DR. CORNELIS HOFSTEE</p> 	<p>Reservoir Engineer, Technology Manager The Netherlands Institute of Applied Geoscience TNO TNO Built Environment and Geoscience National Geological Survey Princetonlaan 6, PO Box 80015 3584 CB Utrecht, The Netherlands Tel: +31302564704 Fax: +31302564605 E-mail: cor.Hofstee@tno.nl</p>
<p>FINAL NAME LIST OF PARTICIPANTS</p>	
<p>NAME</p>	<p>POSITION / ADDRESS</p>
<p>CAMBODIA</p>	
<p>1) MR. OU SAM OL</p> 	<p>Senior Officer Cambodian National Petroleum Authority (CNPA) 13-14 Russian Confederation Blvd.Khan Dangkor, P.O. Box 1442 Phnom Penh, Cambodia Tel: (855-16) 782 767 E-mail: ousamol@yahoo.com</p>
<p>CHINA</p>	
<p>2) DR. XU TING (speaker)</p> 	<p>Senior Engineer Petroleum Exploration & Production Research Institute of SINOPEC No. 31 Xueyuan Rd., Haidian District, Beijing, China Tel/Fax: +86 10 8231 2621 E-mail: xuting@pepris.com</p>

<p>3) DR. ZHOU YUEZHONG</p> 	<p>Senior reservoir engineer E&P Research Institute, SINOPEC No. 31 Xueyuan Rd., Haidian District, Beijing, China Tel: +86 10 8231 2421 Fax: +86 10 8228 2471 E-mail: zhouyz@pepris.com</p>
<p>4) MR. ZHENG RONGCHEN</p> 	<p>Engineer Exploration & Production Research Institute of SINOPEC B Building, Mudan Technology Building, No 2, Huayuan Rd., Haidian District, Beijing, 100083 China Tel: +86 10 8228 2406 Fax: +86 10 8228 2471 E-mail: zhengrc@pepris.com</p>
INDONESIA	
<p>5) MR. SUGIHARDJO (speaker)</p> 	<p>Researcher PPPTMGB "LEMIGAS" JL. Ciledug Raya Kav. 109, Kebayoran Lama Jakarta Selatan 12230 Tel: 62-021-7394422 Fax: 62-021-7222978 E-mail: sugihardjo@lemigas.esdm.go.id</p>
<p>6) MS. LAUTI D. SANTY SUTEDJA</p> 	<p>Researcher Geological Agency JL. Diponegoro no.57 Bandung 40122 West Java Indonesia Tel: 62 22 720 3205 Fax: 62 22 720 2669 E-mail: lauti_mon@yahoo.com</p>
JAPAN (NO NOMINEE)	
KOREA	
<p>7) DR. JONG HWA CHUN (speaker)</p> 	<p>Senior Researcher Korea Institute of Geoscience and Mineral Resources (KIGAM) 92 Gwahang-no, Yuseong-gu, Daejeon 305-350, Korea Tel: 82-42-868-3328 Fax: 82-42-868-3417 E-mail: jhchun@kigam.re.kr</p>

MALAYSIA**8) MR. MOHD IRWANI B SADI**

Geoscientist
Petroleum Management Unit
Level 22, Tower 2, Petronas Twin Towers, Kuala Lumpur City
Centre, 50088 Kuala Lumpur, Malaysia
Tel : +603-2331 1002
Fax: +603-2331 3238
E-mail: irwani_sadi@petronas.com.my

**9) DR. KHALIK BIN MOHAMAD SABIL
(speaker)**


Lecturer
Universiti Teknologi Petronas
Chemical Engineering Programme
Bandar Seri Iskandar 31750
Tronah Perak, Malaysia
Tel: +605 368 7684
Fax: +605 365 6176
E-mail: khalik_msabil@petronas.com.my



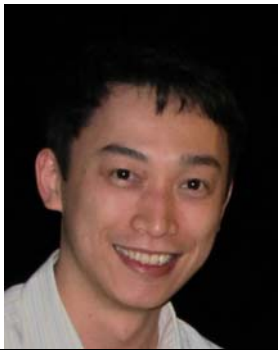


PAPUA NEW GUINEA (NO NOMINEE)**PHILIPPINES****10) MR. RAMON ALLAN V. OCA**






Deputy Permanent Representative of the Philippines to CCOP
Officer-In-Charge Undersecretary
Department of Energy (DOE)
Energy Center, Merritt Road
Fort Bonifacio, Taguig City, The Philippines
Tel: (632) 840 2074
Fax: (632) 840 2167
E-mail: rvoca@doe.gov.ph , ramonallan@yahoo.com

11) MR. REDENTOR PASCUAL






Supervising Science Research Specialist
Department of Energy (Philippines)
Energy Center, Merritt Road,
Fort Bonifacio, Taguig City
Tel: (+63 2) 812 4016
Fax: (+63 2) 840 2206
E-mail: redy_pascual@yahoo.com

<p>12) MS. ARLYNE JOY ROQUE</p> 	<p>Senior Science Research Specialist Department of Energy (Philippines) Energy Center, Merritt Road, Fort Bonifacio, Taguig City Tel: (+63 2) 812 4016 Fax: (+63 2) 840 2206 E-mail: ajaroque@gmail.com</p>
THAILAND	
<p>13) MR. AKRADEJ WATTANASOMBOON</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. 3216 Fax: (662) 791 8367 E-mail: akradej@dmf.go.th</p>
<p>14) DR. TRIN INTARAPRASONG</p> 	<p>Geologist Department of Mineral Fuels Ministry of Energy, Shinawatra Tower III, 24th Fl. 1010 Viphavadi Rangsit Rd., Chatuchak, Bangkok 10900, Thailand Tel: (66 2) 791 8300 ext.5205 Fax: (66 2) 791 8357 E-mail: trin@dmf.go.th</p>
VIETNAM	
<p>15) DR. NGUYEN HUY QUY</p> 	<p>EPPM National Coordinator Deputy General Manager Science & Technology Division, Petrovietnam Vietnam Oil and Gas Corporation PETROVIETNAM, 18 Langha, Ba Dinh, Hanoi, Vietnam Tel: (84-4) 37725817, 3825 2526/7502 Fax: (84-4) 3826 5942 E-mail: quynh@pvn.vn</p>
<p>16) MR. PHAM TUAN VIET</p>	<p>Secretary of CCOP Vietnam Office</p>

	<p>Senior Officer Science & Technology Division, Petrovietnam Tel: (844) 3825 2526/ 7513 Fax: (844) 3826 5942 E-mail: vietpt@pvn.vn</p>
<p>17) MRS. NGUYEN HA PHUONG</p> 	<p>Officer Science & Technology Division, Petrovietnam</p>
<p>18) MR. VU THANH (speaker)</p> 	<p>Officer Petroleum Production Division, Petrovietnam Tel: +84 4 3825 2526 E-mail: thanhv@pvn.vn</p>
<p>19) MRS. LE THI THU HANG (speaker)</p> 	<p>Expert Petroleum Division Oil & Gas Production Division, Petrovietnam Tel: +84 909 689 686 E-mail: hanglth@pvn.vn</p>
<p>20) MR. VU NGOC DIEP</p> 	<p>Senior Geologist Exploration Division, Petrovietnam Tel: +84 4 3825 2526 ext. 6618 Fax: +84 4 3826 5942 E-mail: diepvn@pvn.vn</p>

<p>21) MR. TRINH QUOC TRINH</p> 	<p>Senior Geologist Exploration Division, Petrovietnam Tel: (844) 3825 2526 ext. 6615 Fax: (844) 3826 5942 E-mail: trinhtq@pvn.vn</p>
<p>22) MR. TRAN XUAN PHUONG</p> 	<p>Officer Health-Safety-Environment Division, Petrovietnam Tel: +84 9 8316 5196 E-mail: phuongtx@pvn.vn</p>
<p>23) MR. PHAM DUC THANG</p> 	<p>Senior Expert Overseas Petroleum Contracts Management Division, Petrovietnam Tel: +84 9 8314 1201 E-mail: thangpd@pvn.vn</p>
<p>24) MRS. LE THI LAM GIANG</p> 	<p>Deputy General Manager Petroleum Engineering Division Exploration and Production Corporation (PVEP) E-mail: gianglh@pvep.com.vn</p>
<p>25) MR. HA MINH DUC</p> 	<p>Engineer Exploration and Production Corporation (PVEP) 6th Floor, 18 Long Ha, Ba Dinh Hanoi, Vietnam Tel: +84 9 7989 8933 E-mail: duchm@pvep.com.vn</p>

<p>26) MRS. TRAN CHAU GIANG</p> 	<p>Manager Strategic & Integrated Studies Division Vietnam Petroleum Institute 72 Truong Chinh Hanoi, Vietnam Tel: +84 9 1258 5526, Fax: +84 4 3784 4156 E-mail: giangtc@vpi.pvn.vn</p>
<p>27) MR. TRAN VAN LONG</p> 	<p>Deputy Director E&P Center Vietnam Petroleum Institute Tel: +84 9 1350 1023 Fax: +84 4 3629 0323 E-mail: longtv@vpi.pvn.vn</p>
<p>28) MR. NGUYEN HAI AN</p> 	<p>Manager RE and EOR Department Vietnam Petroleum Institute Tel: +84 9 1237 1575 E-mail: annh@vpi.pvn.vn</p>
<p>29) MR. NGUYEN MINH QUY</p> 	<p>Manager Drilling and Production Department Vietnam Petroleum Institute Tel: +84 9 0415 1944 E-mail: quynm@vpi.pvn.vn</p>
<p>30) MR. PHAN GIANG LONG</p> 	<p>Senior Officer Vietnam Office of Government 1st Hoang Hoa Tham Str. Ba Dinh District Hanoi E-mail: phangianglong@chinhphu.vn</p>

<p>31) MR. DINH NGOC LINH</p> 	<p>Legal Officer Petrovietnam Tel: +84 9 8365 6948 Fax: + 844 3826 5942 E-mail: dnlinh2005@yahoo.com.vn</p>
<p>32) MR. NGUYEN ANH TUAN</p> 	<p>Expert (Oil & Gas Sector) Department of Energy Ministry of Industry and Trade Vu Nang Luong, 54, Hai Batrung Str. Hanoi, Vietnam Tel: +844 2220 2222 ext. 402 Fax: 844 2220 2527 E-mail: tuanguyenanh@moit.pvn.vn</p>
<p>33) MS. HAI ANH TRAN</p> 	<p>Market Advisor Commercial Section Royal Norwegian Embassy 10th Floor, Block B, Vincom City Towers 191 Ba Trieu Street, Hanoi Tel: (84 4) 39742930 Fax: (84 4) 39743303 E-mail: Tran.Hai.Anh@innovationnorway.no</p>
<p>34) MRS. PHAM QUYNH MAI</p> 	<p>Market Advisor Commercial Section Royal Norwegian Embassy 10th Floor, Block B, Vincom City Towers 191 Ba Trieu Street, Hanoi Tel: (84 4) 39742930, ext: 222, Mob: (84) 903459456 Fax: (84 4) 39743303 E-mail: mai.pham@innovationnorway.no; mai.quynh.pham@mfa.no www.innovationnorway.no</p>
ASCOPE	
<p>35) MR. PEERAPONG EKKAWONG</p> 	<p>Reservoir engineer PTTEP PTTEP Office Building, 555 Vibhavadi Rangsit Rd. Chatuchak, Bangkok, 10900, Thailand Tel: +66 2 537 4174 Fax: +66 2 936 2677 E-mail: peerapong@pttep.com</p>

<p>36) MS. PASSAPORN KESSADAYURAT</p> 	<p>Reservoir engineer PTTEP PTTEP Office Building, 555 Vibhavadi Rangsit Rd. Chatuchak, Bangkok, 10900, Thailand Tel: +66 2 537 4486 Fax: +66 2 936 2677 E-mail: passapornk@pttep.com</p>
<p>37) DR. KANOKROT PHALAKORNKUL</p> 	<p>Vice President PTT Public Company Limited PTT Research and Technology Institute, 71 Moo 2 Phaholyothin Rd., Sanubtub, Wangnoi, Ayutthaya 13170, Thailand TEL.:66-02-537-8131 FAX.:66-02-537-8146 E-mail: kanokrot.p@pttplc.com</p>
<p>38) MR. NYEIN MAUNG</p> 	<p>General Manager for Myanaung Oil Field Myanma Oil and Gas Enterpriseung Complex 44 Nay Pyi Taw, Myanmar Tel: +95 67 411347 Fax:+ 95 67 411178 E-mail: uaughtoo@gmail.com</p>
<p>39) MR. KHUN MYO THANT</p> 	<p>General Manager for Pyay Oil Field Myanma Oil and Gas Enterpriseung Complex 44 Nay Pyi Taw, Myanmar Tel: +95 67 411347 Fax:+ 95 67 411178 E-mail: uaughtoo@gmail.com</p>
<p>40) MR. MUHAMMAD DALOMA</p> 	<p>Resevior Engineer PNOC Exploration Corporation (PNOC-EC) PNOC Building1, Energy Center, Merrit road Front Bonifacio, Taguig City, Philippines Tel: +63 2 4799264 Fax: +63 2 8402055 E-mail: mbdaloma@pnoc-ec.com.ph</p>

<p>41) MR. PHAM THANH LIEM</p> 	<p>Deputy Manager of Reserves Management Department Exploration Division, Petrovietnam 12B Floor, Petrovietnam Tower 18 Lang Ha Street, Ba Dinh District Hanoi, Vietnam Tel: +844 3825 2523 ext 6617 Fax: +844 3826 5942 E-mail: liem98@pvn.vn</p>
<p>42) MR. TRUONG HOAI NAM</p> 	<p>Deputy Manager of Drilling Department Exploration Division, Petrovietnam 12B Floor, Petrovietnam Tower 18 Lang Ha Street, Ba Dinh District Hanoi, Vietnam Tel: +844 3825 2523 ext 6611 Fax: +844 3826 5942 E-mail: namth@pvn.vn</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, E-mail: ccoopts@ccop.or.th</p>	
<p>MR. SIMPLICIO P. CALUYONG</p> 	<p>EPPM Project Coordinator CCOP T/S E-mail: sim@ccop.or.th Mob: (66-81) 827 0527</p>
<p>DR. NGUYEN NHU TRUNG</p> 	<p>Geo-Resources Sector Coordinator CCOP T/S E-mail: trungnn@ccop.or.th Mob. (66-89) 001 3458</p>

MS. PETCHARAT SARAWISUTRA



Programme Manager, Technical Programme Division
CCOP T/S
E-mail: fern@ccop.or.th
Mob: (66-81) 823 3729

MS. VAREERAT UNWERAWATTANA



Assistant to Technical Programme Division
CCOP T/S
E-mail : may@ccop.or.th

RESOURCE PERSONS' SHORT CV (Through PETRAD) -by alphabetical order



DR. CORNELIS HOFSTEE

Reservoir Engineer, Technology Manager,
The Netherlands Institute of Applied Geoscience TNO
TNO Built Environment and Geoscience
National Geological Survey
Princetonlaan 6, PO Box 80015
3508 TA Utrecht, The Netherlands
E-mail: Cor.Hofstee@tno.nl

Short Bio data:

Cor Hofstee holds a Ph.D. on the topic “multi-fluid flow in porous media” from Auburn University (USA). He worked in several countries (Australia, Niger, USA, Germany and the Netherlands) and for several research institutes and universities. Since 2001, he has been working for TNO, where he started as team leader of the multi-fluid flow and subsurface restoration team. He is now active within the geo-energy department as a reservoir engineer and technology manager. Cor headed a number of technical studies concerning underground storage of CO₂, EGR and EOR, and ECBM.



PROF. BJØRN KVAMME

Professor,
Department of Physics and Technology,
University of Bergen,
Allegt. 55, N-5007 Bergen, Norway
Tel. +47 55 583310, Mobile. +47 93 451956
E-mail: bjorn.kvamme@ift.uib.no

Short Bio data:

Professor Bjørn Kvamme, Department of Physics and Technology obtained his M.Sc. in Chemical Engineering (1981) and Ph.D. in Chemical Engineering (1984) from the Norwegian University of Technology and Natural Sciences. He has been with SINTEF in Trondheim. In 1987 he was appointed as a full Professor and was a pioneer in starting up education of M.Sc. as well as initiating a doctoral program in Process Engineering in Telemark, Norway, now implemented as a part of Telemark University College. He has been affiliated with UoB, Department of Chemistry, since 1998 and entered a position as Professor in Gas Processing at Department of Physics March 2000. He is the author/coauthor of more than 100 reviewed publications plus several book chapters and proceedings contributions. His main research effort has been in thermodynamics and statistical thermodynamics. Topics include natural gas hydrates, equilibrium, stability and kinetics, polar solutions and electrolyte solutions, kinetics of phase transitions, oil in water emulsions, separation, gas cleaning, and seawater chemistry. During the later years the main funding has been related to natural gas hydrate in general, with the main funding sources being related to hydrate as energy source. Different aspects of CO₂ capture and storage have been heavily funded research since 2002 and in addition to some large ongoing projects Kvamme is part of the FME SUCCESS. Development of a new reactive transport simulator for CO₂ storage with implicit geo-mechanical analyses is currently an important issue. He is currently the leader of a research group containing 1 additional Professor, 1 post.doc., 12 PhD students, 14 MSc students and a varying number of international guest researchers and guest students.

**MS. EVA LJOSLAND**

INTSOK

Regional Director, Angola and Kazakhstan

Hoffsveien 23, P.O Box 631 Skøyen, N-0214 Oslo, Norway

Tel.: +47 22 06 14 81, Mobile: +47 97 69 08 27

Fax: +47 22 06 14 90

E-mail: eva.ljosland@INTSOK.comWebsite: www.intsok.com**Short Bio data:**

Eva Ljosland is the Regional Director for Angola and Kazakhstan in INTSOK, Norway. She has 25 years of experience from oil companies Statoil, Saga Petroleum, Hydro and StatoilHydro in the disciplines of sub surface engineering, IOR, operations, HSE, Field development and Asset management. She has been Platform Manager and Asset manager for fields on production and in the development phase in Norway, Angola and Azerbaijan. She also has long experience from management of sub surface disciplines and IOR methods. She holds a Master of Science degree in Physical Chemistry from the University of Bergen.

**DR. LEONID M. SURGUCHEV**

Senior Vice President,

International Research Institute of Stavanger (IRIS)

Lysaker Torg 25, Postboks 418, 1327 Lysaker, Oslo, Norway

Mobile: (+47) 90 10 37 15

Fax: (+47) 67 10 72 10

E-mail: Leonid.Surguchev@iris.noWebsite: www.irisresearch.no, <http://www.iris.no>**Short Bio data:**

Dr. Surguchev, senior vice president of International Research Institute of Stavanger (IRIS), graduated as a petroleum reservoir engineer from Moscow Gubkin Oil and Gas Academy (B.S. and M.S.) in 1982 and holds PhD in reservoir engineering from the same university (1989). In 1995 Dr. Surguchev was awarded the best scientist of the year Norwegian Rogaland Research Prize. In year 2000 he received Doctor of Technical Sciences degree from VNIIneft Scientific Board approved by VAK State Commission of the Russian Federation.

Dr. Surguchev worked for VNIIneft Institute in Moscow, SONATRACH in Algeria, RF - Rogaland Research in Norway, World Bank, IBM, Geomatic, Smedvig Technologies, Petec Software and Services, Russian oil company Sibneft, International Research Institute of Stavanger. Dr. Surguchev participated in different field evaluation, reservoir modelling and simulation studies, IOR projects on waterflooding, gas and WAG injection, foam, CO₂, air injection and other recovery methods, coordinated integrated field studies for major fields on the Norwegian Shelf, Former Soviet Union and America. He was involved in petroleum application software, consulting and oil production business development.

He has published more than 80 scientific publications, monographs and papers, presented at international symposia and conferences.

During the years he participated as a committee member for several key international petroleum conferences: EROPEC, Offshore Europe, Offshore Northern Seas, Petroleum Computing Conferences, APIORC, European EAGE IOR Symposium, SPE workshops in South America and Europe.

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

E-mail: oystein.berg@petrad.no

Web : www.petrad.no

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	Sandy Beach Non Nuoc Resort Address: 255 Huyen Tran Cong Chua Street, Danang City, Vietnam Tel. : +84 511 383 6216 Fax: +84 511 383 6335 Website: www.sandybeachdanang.com		
CCOP Group Hotel Room Rates (first come first serve basis)	ROOM CATEGORY	<u>Single/Double</u>	<u>Single/Double</u>
	Superior Garden/Ocean View (20 rooms)	VND 1,400,000.-	USD 78.-
	Bungalow garden View/ Ocean View (8 rooms)	VND 2,100,000.-	USD 117.-
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.			

The above rates are inclusive of 5% service charge and prevailing government tax, Buffet Breakfast. Free use of Jacuzzi, Sauna and Steam bath, Fitness & Tennis Court, Free wireless internet.

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.

Meeting Venue	Sandy Conference Room, on 1st Floor
Meeting Package	2 coffee breaks and 1 Lunch during the workshop will be sponsored by the project to both sponsored and own-cost foreign delegates.
Internet	Free wireless internet throughout the Resort
Evening Functions	Welcome Dinner on 8 December 2009 hosted by PETROVIETNAM Farewell Dinner on 10 December 2009 hosted by CCOP-EPPM Details to be announced, Round-trip transport from Hotel will be provided.
Excursion	1-day Excursion will be organized and sponsored by PETROVIETNAM. The programme will be announced.
Airport Transfer	Round-trip transfer service is arranged by Sandy Beach Resort to both sponsored and own-cost foreign delegates according to their flight schedules. Representatives from the hotel will wait at the arrival hall with CCOP signage. Note: NO Airport Departure Tax in Vietnam.

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. “Official Invitation Letter” from PETROVIETNAM is available upon request.</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 8 December 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>
Travel Insurance	<p>Delegates are strongly recommended to obtain the travel insurance plan that suits their needs.</p>
Activity Record	<p>A USB drive will be provided to all participants to record the presentations, final name list with contact details of delegates and pictures.</p>
Currency	<p>USD 1 ~ VND 17,500.-</p>
Climate	<p>Pleasant, temperature is around 20-25^o C</p>
Time Zone	<p>GMT+7</p>
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 E-mail sim@ccop.or.th, Website: www.ccop.or.th, Skype: Sim Caluyong</p>



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)</p> <ul style="list-style-type: none"> - Petroleum Policy and Resource Management - Petroleum Development and Operations <p>TRAINING MODULES (World wide – on request)</p> <ul style="list-style-type: none"> - 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>TAILOR MADE SEMINARS (World Wide – on request)</p> <ul style="list-style-type: none"> - All topics within petroleum management, administration and technology <p>TNA – TRAINING NEEDS ASSESSMENT (World Wide – on request)</p> <p>INSTITUTIONAL DEVELOPMENT (World Wide – on request)</p>
--	--

For further information please contact:

PETRAD,

Professor Olav Hanssens vei 10, P.O. Box 598, NO-4003 Stavanger, Norway

Tel: 47- 51 87 66 20, Fax: 47- 51 87 64 28, E-mail: petrad@petrad.no, Web: www.petrad.no



Professor Olav Hanssens vei 10, P.O. Box 598,
NO-4003 Stavanger, Norway
Tel: 47- 51 87 66 20, Fax: 47- 51 87 64 28,
E-mail: petrad@petrad.no

www.petrad.no