



**COORDINATING COMMITTEE FOR COASTAL AND OFFSHORE
GEOSCIENCE PROGRAMMES IN EAST AND SOUTHEAST ASIA
(CCOP)**



**2000 CCOP
ANNUAL REPORT**
CCOP TECHNICAL SECRETARIAT

Bangkok, Thailand

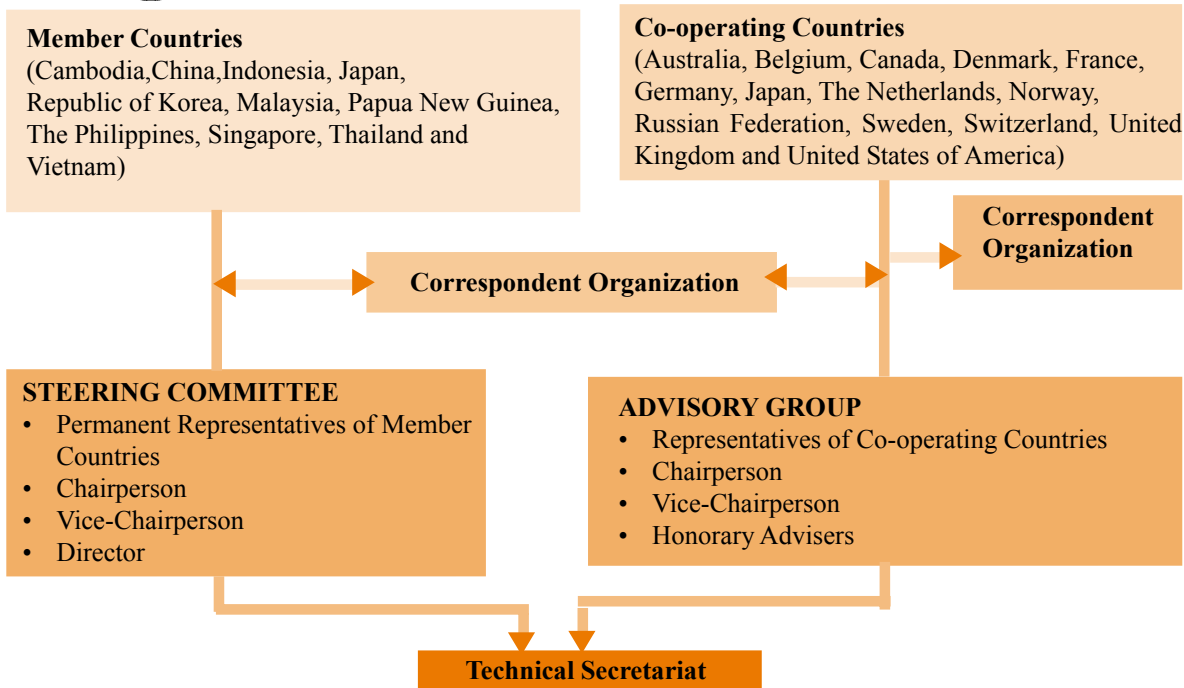


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ORGANIZATION CHART OF CCOP





The Coordinating Committee for Coastal and Offshore Geoscience Programmes in East and South-east Asia (CCOP) is an intergovernmental organisation with purpose to carry out joint applied geoscience programmes for sustainable development of the coastal and offshore areas in East and Southeast Asia.

The CCOP “Coordinating Committee for Offshore Prospecting in Asia” was initiated in 1966 by China, Japan, Republic of Korea and The Philippines under the auspices of ESCAP and the United Nations. CCOP became an independent intergovernmental organisation in 1987 based on the common understanding of its Member Countries and the aspirations of the United Nations. The name was changed in 1994, but the acronym CCOP was retained. CCOP has during this period devoted itself to co-ordination of, and co-operation in, scientific activities related to coastal and offshore areas with respect to geological/geophysical surveys, regional map compilations, database development, development of human resources and transfer of state of the art technology.

CCOP has divided its technical activities into four sectors:

- the energy sector,
- the mineral sector,
- the coastal management and geohazard sector,
- the geodata and information management sector

CCOP has 11 Member Countries; Cambodia, China, Indonesia, Japan, Malaysia, Papua New Guinea, The Philippines, Republic of Korea, Singapore, Thailand and Vietnam.

CCOP has been supported by 14 Co-operating Countries and several international organisations. For the last few years, the major contributing donor-countries have been Japan, The Netherlands and Norway.

The CCOP Technical Secretariat is responsible for the daily co-ordination of all activities carried out by CCOP. The Secretariat is headed by a Director, who is reporting to the CCOP Steering Committee consisting of one permanent representative from each member country. The CCOP Technical Secretariat is located in Bangkok, Thailand.

CCOP’s achievements have proven that it is a successful organisation with following advantages in regional cooperation:

- Data exchange
- Regional data compilation and regional resource mapping
- Sharing of institutional and administrative experiences
- Training and human resource development
- Standardization of resource classification and nomenclature
- Harmonisation of regulatory environment
- Joint investment promotion

CCOP’s financial source includes the cash contributions made by the Member Countries, project management cost received from major projects and other incomes. Funds for technical activities are provided by concerned Co-operating Countries.



During the reporting period, there were several personnel changes in the CCOP Technical Secretariat. **Dr. Sahng-Yup Kim**, retired from CCOP on 31 July 2000 after a five-year directorship at the Technical Secretariat. **Mr. Chen Shick Pei** was elected by the CCOP Member Countries as the new Director, succeeding **Dr. Sahng-Yup Kim**, effective 1 August 2000.

Dr. Seville D. David, Jr. from The Philippines was selected as the Headquarters-based Regional Expert to succeed **Prof. He Qixiang** following the recruitment procedure endorsed by the Steering Committee at its previous meetings. **Prof. He Qixiang** has successfully concluded his service in the Technical Secretariat and returned to China in April 2000.

Dr. Tony Reedman of the United Kingdom and **Prof. He Qixiang** of China were appointed Honorary Advisers to CCOP at the 35th CCOP Steering Committee Meeting in Thailand in April 2000.

Dr. Yusaku Taguchi, Project Coordinator of DCGM-III Project has completed his term of service and has returned to the Geological Survey of Japan. He is succeeded by **Dr. Eizo Yamada** in October 2000 as an expert to implement the DCGM Phase IV Project. **Dr. Eizo Yamada's** term of service will be for two years.

In accordance with the recommendations of the Steering Committee meetings, the Technical Secretariat employed Mrs. Somsri Vongsepradit as Chief of Administrative and Finance in November 2000.

Four (4) professional staff and eight support staff (8), altogether totalling twelve (12) personnel, composed the staff of the Secretariat.

For administrative services, assistance in the routine administration and management of the Secretariat and its work programmes were provided.

In 2000, the Technical Secretariat continued to maintain its present office premises provided by the Royal Thai Government, through the kind arrangement of the Department of Mineral Resources, Ministry of Industry, on the second floor of the Offshore Mining Organization (OMO) Building.

Technical Secretariat Professional Staff

Mr. Chen Shick Pei

Director

Dr. Seville D. David Jr.

Regional Expert

Dr. Eizo Yamada

DCGM Project Coordinator

Mrs. Marivic Pulvera Uzarraga

*Associate Expert/IT and Database
Management*

Technical Secretariat Support Staff

Mrs. Somsri Vongsepradit

Ms. Petcharat Sarawisutra

Mrs. Sunit Prokati

Ms. Jutarat Phoksiri

Ms. Sansanee Wudhivanich

Ms. Oraporn Suwanlertkij

Mr. Visuth Thimasarn

Ms. Tawee Butrakaew



Milestones for the Year 2000

35th CCOP Steering Committee Meeting 27-29 March 2000, Bangkok, Thailand

The 35th CCOP Steering Committee Meeting was organized by the Technical Secretariat in Bangkok, Thailand from 27 to 29 March 2000. The meeting was attended by 33 delegates from ten Member Countries, including Director, Regional Expert, Project Coordinator and staff from the Technical Secretariat. Also present was Dr. Henk Schalke, the Chairman of the Advisory Group who acted as observer.

The main focus of the meeting was on progress report, financial matters, workplan and internal management of CCOP. The Steering Committee approved the proposed budget for 2000 and mandated the Technical Secretariat to take urgent actions following decision and recommendations outlined under the agenda of issues related to management of CCOP.

Another important point on the agenda of the meeting was the review of the CCOP Strategic Plan. Some Member Countries and the Advisory Group Chairman made both general and specific comments on the guidelines. The Committee recommended the Technical Secretariat to compile information received from all Member Countries in order to follow-up the formulation of the Strategic Plan based upon the decisions made during the meeting.

The Steering Committee further accepted the appointment of Dr. Seville D. David, Jr., seconded by the Philippines Government to succeed Prof. He Qixiang as the new Regional Expert of CCOP starting 1 April 2000. The meeting also appointed two distinguished high-level geoscientists, Dr. Tony Reedman and Prof. He Qixiang, as Honorary Advisors as proposed by the Technical Secretariat. These Advisers are the official representatives of their respective organizations in the Technical Secretariat Group of CCOP to regularly advise the Committee on the technical, scientific and research aspects of its work programme and to attend its annual sessions.

Election of new CCOP Technical Secretariat Director (2000-2004)

The CCOP Steering Committee decided to hold an early election of the Director of the Technical Secretariat, after the incumbent, Dr. Kim Sahng Yup announced his early retirement. Member Countries were requested to cast their vote before July, 11, 2000, and the opening and counting of votes, in accordance with the CCOP Rules of Procedure, should be carried out

the next day on July, 12, 2000, witnessed by the representatives of Member Countries from their nearest Embassies. China received the honor this time to be selected by Member Countries as the Election Chairperson country.

Dr. Zhang Hongtao, Election Chairperson, had received votes from all the Member Countries before the deadline. The opening and counting of votes was carried out on July, 12, 2000 at the Ministry of Land and Resources of China. In attendance at the ceremony were the representatives of Cambodia, China, Indonesia, Japan, Korea, Malaysia, The Philippines, Thailand and Vietnam from their Embassies in Beijing. The representatives checked all the votes and testified that all the votes are valid. Mr. Chen Shick Pei, candidate of Malaysia, received seven votes from the eleven, and therefore, won the majority.

A memorandum was signed by the representatives from Member Countries who congratulated the representative of Malaysia for the success, and appreciated the hard work the Election Chairperson has done for the successful opening and counting of votes. They also expected that Mr. Chen will do his best to reactivate the organization so as to promote the regional cooperation in the future. The outcome of the election was immediately submitted to the Steering Committee Chairperson for follow up action as well as to the Permanent Representatives of Member Countries for reference.

37th CCOP Annual Session and 36th CCOP Steering Committee Meeting 24-27 October 2000 and 30-31 October 2000, Bangkok, Thailand

The 37th CCOP Annual Session held at the Siam Inter-Continental Hotel, Bangkok, Thailand during 24-27 October 2000, has been the most memorable. The Session, attended by over 120 delegates, was inaugurated by H.E. Mr. Suwat Liptapanlop, Minister of the Ministry of Industry of Thailand. Mr. Cherdpong Siriwit, Director-General of the Thai DMR was elected Chairperson of the Session.

The Session was well attended by representatives of the following Member Countries: Cambodia, China, Indonesia, Japan, the Republic of Korea, Malaysia, Papua New Guinea, The Philippines, Thailand and Vietnam. Representatives and experts from the Cooperating Countries: Canada, Denmark, Germany, Japan, The Netherlands, Norway, Russian Federation,

of America, Representatives of Cooperating and Corresponding Organizations, and Honorary Adviser were also represent at the Session.

The Session was informed that a wide variety of assistance had been provided to CCOP by Cooperating Countries. Appreciation of such assistance was recorded and it is hoped that such assistance would be continued and further enhanced in the future.

Among the major topics discussed included review of the workplan and budget for 2001, plans for the 2001 Annual Session, long-term strategies of CCOP, technical co-operation among CCOP Member Countries, CCOP Experts' programme, and other important administrative and financial matters of the organization.

Below are some of the major decisions made and subsequently endorsed by the Steering Committee.

- 1) Adoption of the new reporting period of technical and financial reports of CCOP commencing in the year 2002;

- 2) Adoption of the draft workplan and budget for 2001;
- 3) Endorsement of the new project proposals on: DCGM-IV Project on the Groundwater and Geothermal Databases, the KaR Metadata Project and ITAMERA;
- 4) Preparation for the CCOP Strategic Plan Meeting in March 2001;
- 5) Continuation of Government of Japan's support for the services of new long-term expert (DCGM-IV Project Coordinator/Mineral Sector) for two years from 2000-2002. The Committee approved CCOP Technical Secretariat's intention to recruit the Chief of Administrative and Financial of CCOP during 2000.

The Government of Cambodia has kindly offered to host the 38th CCOP Annual Session and its 38th Steering Committee Meeting in Phnom Penh, 22-26 October and 29-30 October 2001, respectively.



Technical Cooperation and Project Support

Technical support for programme activities contributing to environmentally sound sustainable development in the CCOP region continued to be provided to CCOP by the Cooperating Countries and Organizations. Information and experience exchange, technology transfer, provision of full-time and part-time technical experts and advisory services, as well as human resource development, remain as the major themes of the cooperation.

To optimize the benefits of the programme support provided by the Cooperating Countries and Organizations, as summarized below, the Member Countries also provide in-kind support to CCOP work programmes in addition to their annual cash contributions.

Cooperating Countries

Denmark: An active discussion with GEUS on possibilities of developing further cooperation within the CCOP area with the financial and technical support of Danish official aid organizations was arranged in February 2000.

France: Dr. Henri Fontaine, Senior Pre-Tertiary Geologist, continues his service for the study on Pre-

Tertiary Geology in Southeast Asia at the request of the CCOP Member Countries. He has continued to assist the Member Countries under the Pre-Tertiary Potential Programme.

Japan: Being both a Member and Cooperating Country, Japan continued to provide significant support to CCOP's technical and related administrative activities, as well as its publication programmes. In addition to its regular project support to CCOP under the DCGM project, GSJ and other Japanese institutions such as MITI, SEC, NEDO, AIST and ITIT continued to offer workshops/seminars to CCOP Member Countries.

With support from JICA and JECF funds, GSJ made available the services of non-reimbursable experts to visit CCOP Member Countries to coordinate and support the CCOP DCGM programme.

The Netherlands: The Coastplan Project, supported by the Royal Government of the Netherlands was officially concluded on 31 December 1999. The reproduction of the CD-ROM of the results of the Coastplan case studies currently being undertaken by the CCOP Technical Secretariat and to be made available to CCOP Member and Cooperating Countries and various cooperating agencies.

Norway: The Royal Government of Norway through NORAD continues to support the Resource Evaluation and Planning Phase II Project (REP II) of CCOP. The last technical activity of the project, the CCOP Exploration Promotion Forum is now being implemented. Norway expressed its Satisfaction in cooperating with CCOP and committed to support future CCOP energy programmes. The project proposal on Petroleum policy and Management Project submitted to NORAD on December 1999 is now under consideration. A project team of experts visited CCOP Technical Secretariat and some Member Countries in November 2000 for the appraisal of the proposal.

United Kingdom: The United Kingdom continued her active support to CCOP technical activities related to Geodata Management. A Workshop on "Maximising Geoscience Data Value" is being planned. Also, a proposal for a KaR Metadata Project is under consideration by the UK Department for International Development.

United States of America: The United States of America through the U.S. Geological Survey (USGS) and Circum Pacific Council (CPC) continue their support to CCOP particularly in the Working Group on Geological Correlation Project. Five sets of maps at 1: 2,500,000 scale were printed that completed the East Asia Geographic Map Series in 2000, which served as the contribution of the USGS to its cooperative programme with CCOP. These maps were made available to the CCOP Member Countries and other concerned cooperating agencies. In conjunction with the 37th CCOP Annual Session in Bangkok, Thailand a meeting was held and organized by CCOP and CPC to discuss current cooperative programmes and future initiatives.

Other Cooperating Countries generally continued their technical support to a number of CCOP work programmes by providing valuable advice and guidance. CCOP Cooperating Countries also provide in addition bilateral technical assistance to CCOP Member Countries. Thanks are due to all the 14 Cooperating Countries for their provision of representatives to CCOP who have contributed in large measure to the review, assessment and formulation of CCOP work programmes.

Cooperating Organizations

Economic and Social Commission for Asia and the Pacific (ESCAP): The Technical Secretariat participated in the 56th Session of UN/ESCAP on 1-7 June 2000 to discuss policies and emerging issues as well as to develop a blueprint for ESCAP's future work programmes. CCOP and ESCAP likewise worked closely in undertaking follow-up actions on activities

related to the SANGIS Program. Further information exchange, cooperation on technical activities as well as conferences organized will be continued in the future.

The Proceedings of the CCOP/ESCAP/World Bank/UK Department for International Development Workshop on Industrial Minerals and Offshore Aggregates in Asia held on 3-8 May 1999 at Bangkok, Thailand is being prepared by ESCAP in cooperation with the British Geological Survey. The Report is expected to be printed and distributed to CCOP Member Countries in the first half of 2001.

Asean Council on Petroleum(ASCOPE): The Development of CCOP-ASCOPE cooperation is marked with the active involvement of ASCOPE in the CCOP energy programmes. The Technical Secretariat participated to the Joint Committees Meeting of ASCOPE held in Clark Special Economic Zone in Philippines on October 2000. Close cooperation should be maintained and developed for mutual benefit in information exchange, cooperation in existing projects and seeking new joint projects.

Commission for Western Pacific (IOC/WESTPAC): CCOP maintains regular communication with IOC/WESTPAC for exchange of information, particularly, for those topics related to integrated coastal zone management.

UNESCO: CCOP maintains close cooperation with UNESCO and ESCAP in undertaking activities related to geodata handling and in establishing the geo-information network in Southeast Asia initiated by the 1st SANGIS Technical Workshop organized by CCOP.

International Programme for Petroleum Management and Administration (PETRAD): PETRAD regularly offers tailor-made bilateral seminars/workshops to CCOP Member Countries. During the reporting period, PETRAD in close coordination with CCOP conducted five (5) seminars/workshops based on the requests from individual CCOP Member Countries.



New Project Proposals

During the year 2000, totally 3 Project Proposals has been submitted and endorsed by the Steering Committee.

1. DCGM Phase IV Project on the Groundwater and Geothermal Data bases
2. Kar Metadata Project
3. Integrated Technologies for ASEAN Mineral Exploration and Resources Assessment (ITAMERA)



Technical Activities

The Technical Secretariat managed to successfully carry out most of the planned activities in the CCOP Workplan for 2000 under the following sectors. Thirteen technical meetings/workshops were held and attended by 411 participants (Table 1). Aiming at technology transfer, these activities were highly appreciated by the participants. Visits to Member Countries were made by CCOP experts to provide advisory services.

Table 1: Number of Technical Activities and Participants from CCOP Member Countries and Non-CCOP Member Countries

Sector	No. of activities	No. of participants
1. Energy	*4	*202
2. Mineral	7	157
3. Coastal Management and Geohazard	1	50
4. Geodata and Information Management	1	50
TOTAL	13	411

*CCOP/ASCOPE/PETRAD bilateral activities

Energy Sector

1. Resource Evaluation and Planning Phase II (REP-II)

1.1 Preparation of the CCOP Exploration Promotion Forum (EPF'2000)

The REP-II project, which is supported by the Government of Norway through NORAD, concluded

most of its technical activities except for the Exploration Promotion Forum which was planned to be held on 11-14 September 2000, in conjunction with GASEX 2000 conference and exhibition, Pattaya, Thailand. Due to unforeseen circumstances, the Forum was postponed and will be carried out in conjunction with an appropriate regional/international oil and gas conference in 2001-2002.

2. CCOP/ASCOPE/PETRAD Programmes

With the technical and financial support of Norway, CCOP/ASCOPE/PETRAD cooperation to undertake activities at the request of CCOP Member Countries remains active and successful.

2.1 ASCOPE/PETRAD Seminar on Project Management for the Development and Operation of Gas Pipeline Systems

In cooperation with the Directorate General of Geology and Mineral Resources, MIGAS, LEMIGAS, PERTAMINA and Asean Center for Energy (ACE), the above activity was conducted in Jakarta, Indonesia on 22-29 April 2000, with 46 participants.

2.2. CCOP-PETRAD-PETRONAS Seminar on Small Field Development

The Seminar on Small Field Development was organized through the cooperation of CCOP-PETRAD-PETRONAS and the Minerals and Geoscience Department Malaysia on 7-11 August 2000 at Guoman Port Dickson Resort, Malaysia. The Seminar was co-sponsored by Murphy Oil, PETRONAS and PETRAD/INTSOK, and attended by 45 participants from PETRONAS, Malaysia, Petroleum Authority of Thailand, PetroVietnam and Australia. The seminar provided both an important learning opportunity and, equally, enabled participants to interact so that experience and knowledge can be shared in the future.

2.3 CCOP-PETRAD-PGS-MLR Seminar on E&P Data Management

The CCOP-PETRAD-PGS-MLR Seminar on E&P Data Management was successfully organized in Qingdao, China on 29-30 November 2000. This Seminar was attended by a total of 68 participants from the state oil companies of China, i.e. China National Offshore Oil Corporation (CNOOC), China National Petroleum Corporation (CNPC), China National Star Petroleum Corporation (CNSPC), as well as their regional branches. The Seminar was kindly sponsored by PGS Data Management and generously supported by the Ministry of Land and Resources (MLR), China Geological Survey, Qingdao Municipality, Shangdong Association of Petroleum Geologist, and Institute of Marine Geology.

The Opening Session of the Seminar was chaired by Mr. Zheng Chuncai, Division Chief of the Department of International Cooperation, Science and Technology/MLR. Dr. Oystein Berg, PETRAD Managing Director gave the Opening Address and the Opening Statement was delivered by Mr. Zhang Hongtao, Deputy Director-General of the China Geological Sur-

vey and Permanent Representative of China to CCOP. The Opening Remark was made by Mr. Xu Bao Zhan, Assistant Major of Qingdao Municipality followed by Keynote Speech by Mr. Liu Shouquan, Director of Institute of Marine Geology.

The Seminar focused on the concept of National Data Bank in a modern E&P environment. The participants learned a lot from the examples made by the Norwegian initiatives, particularly the operational aspects of a modern national data bank and status of other national data bank initiatives. The participants stated their satisfaction at the achievements of the Seminar and expressed their heartfelt thanks to the host organizations in China, and the sponsor, PGS.

2.4 CCOP-PETRAD Seminar on E&P Data Management

The Opening Session of the above Seminar was chaired by Mr. S. Suryantoro, Director General of the Directorate General of Geology and Mineral Resources (DGGMR), and Permanent Representative of Indonesia to CCOP. Mr. Suryantoro extended a warm welcome and addressed his opening statement to the participants. Opening Address was delivered by Dr. Oystein Berg, Managing Director of PETRAD. Mr. Eddy Purwanto, Planning & Portfolio Management Director, PERTAMINA and Mr. Sutarno, Head of Exploration Division, MIGAS gave their keynote speeches.

The Seminar was attended by 43 participants from CALTEX, CONOCO Indonesia, EXSPAN Nusantara, Gulf Indonesia Resources, LASMO, LEMIGAS, Norwegian Tread Council, PERTAMINA EP, PERTAMINA-BPPKA, PGS Indonesia, DIT EP MIGAS, PPT MIGAS, PREMIER Oil, PT. Prosinergi Multitama, Robertson Utama, Santa FE Energy Resources, SANTO (Bentu), Shell EP, Total Indonesia, Transavia, Blom Nusantara, DITJEN GSM, Department of Mineral Resources of Thailand, PTT Exploration and Production (Public) Co., Ltd. and Petroleum Authority of Thailand.

The programme was tailor-made for 2-day presentation and discussion that focuses on the concept of a national data bank in a modern E&P environment. The participants expressed their sincere thanks to the DGGMR, MIGAS, LEMIGAS and PERTAMINA, and the sponsor PGS for their generous support to this successful Seminar.

3. CCOP/CPGDP Project on Geological Correlation (WGCC)

Data compilation is on-going in the framework of the Working Group on Geological Correlation

Project. After the Tertiary Stratigraphy, the main work of the project has been shifted to the Compilation of Paleozoic and Mesozoic data. During the meeting organized by CCOP and CPC in conjunction with the 37th Annual Session, the Project Leader, Dr. Maurice Terman of USGS and his associates presented an update on the status of activities of the WGGC Project. The compilers requested the CCOP Member Countries to submit their contribution to the project. A CD-ROM was made available to the CCOP Member Countries and Technical Secretariat presenting the compilation of earlier contribution of Member Countries. This CD-ROM will also serve as guide for the Member Countries in submitting their contributions that will complete the expected outputs of the project.

4. Pre-Tertiary Geological Studies in Southeast Asia

In January 2000, Dr. Henri Fontaine has conducted paleontological and stratigraphical studies in northeastern and central Thailand before proceeding to Malaysia for a three-week mission where he carried out research in the Kuantan area, Pahang. The results of these studies will be published in the CCOP Newsletters. Related to this, two research papers entitled “Moscovian to Gshelian Coral Assemblages in Northeastern Thailand: Field-relationship between Carboniferous and Permian Strata” and “Devonian and Lower Carboniferous Corals found in Ban Na Klang Area, Loei Province Northeast Thailand” were published in the Journal of the Geological Society of Thailand. Another paper on the “Widespread Occurrence of Triassic Limestone in Uthathani area” was published in the Natural History Bulletin of the Siam Society.

He further carried out geological and quaternary research with the Thai Department of Mineral Resources, and provided also his service to Malaysia from October to December 2000.

Mineral Sector

1. Project on Digital Compilation of Geoscientific Maps (DCGM-III)

1.1. Third Workshop of DCGM-III

The 3rd Working Group Meeting of the DCGM Phase III Project of CCOP was held at the Geological Survey of Japan in Tsukuba, Japan from February 17 to 20, 2000. A total of 18 participants from Member Countries attended the workshop. Dr. Yusaku Taguchi, Project Coordinator, chaired at the meeting and gave the opening address. Ms. Marivic Pulvera-Uzarraga, Associate Expert of the CCOP Technical Secretariat and Ms. Maria Joy Daigo, Research Assistant from the

Geological Survey of Japan, were chosen as Rapporteurs.

The meeting focused on the progress of data compilation for the target city of each Member Country and the publication of the final product for the Project. Dr. Koji Wakita, the Chief Compiler of the Project, explained the topics to be discussed for the meeting. Introduction of viewer software programmes was presented to the participants. Dr. Lei Xinglin, Researcher of the Geological Survey of Japan further explained the features and capabilities of GEOMAPZ, a GIS software for viewing and analyzing geological database. Dr. Kimio Okumura, Chief of Overseas Geology Section and Ms. Maria Joy Daigo introduced the features of TNT ATLAS, a viewer program of TNT Mips GIS software. Dr. Tomio Inazaki, Researcher of the Geological Survey of Japan, presented the capabilities and features of LOGBASE, a log sheet type borehole data editor and WELLWIN, a software programme for reading borehole data files.

The style of the Project’s final product and the future work for each Member Country was opened for discussion and comments by the participants. The final products will be published on CD-ROM for the digital geoscientific maps and the final report will be published in the CCOP Technical Bulletin.

For Member Countries such as Korea, Indonesia and Thailand, which include local languages in their databases, it was agreed that such information will be retained but there must be a corresponding English explanation in the metadata. For the conversion of the dataset for TNT ATLAS format, the participants were asked to submit their digital data to the CCOP Technical Secretariat.

1.2. ITIT Symposium on Geoscientific Information and GIS Application for the Urban Areas of East and Southeast Asia

The ITIT Symposium on Geoscientific Information and GIS Application for the Urban Areas of East and Southeast Asia was held in Tsukuba, Japan on 14 to 16 February 2000. This symposium was organized by the Geological Survey of Japan and CCOP under the Digital Compilation of Geoscientific Maps Phase III Project.

A total of 27 participants joined the symposium; one each from Australia, Cambodia, Indonesia, Korea, Malaysia, Pakistan, Papua New Guinea, The Philippines and SOPAC; two from China; three from Thailand; nine from Japan; and four from the CCOP Technical Secretariat.

Keynote speakers from Japan and Australia talked about their projects relevant to the topic of the symposium.

sium. Usage of the digital data compiled with GIS techniques was emphasized. In addition, the CCOP Member Countries' participants presented their work on the DCGM Phase III Project in their own countries.

The symposium was concluded with a one-day scientific excursion to the Tokyo Wan Aqua-line and Tokyo Construction Research Office.

1.3. In-house Training of DCGM-III

The In-house Training of DCGM-III was held at the Foshan City Office of Guangdong Provincial Bureau of Geology and Mineral Exploration, from April 18 to 22, 2000, Guangzhou, China. Mr. Zhuang Wenming from Guangdong Provincial Bureau, and Mr. Kang Fengxin from Shandong Provincial Bureau were the participants.

The digital data of Foshan City are compiled in Chinese MapGIS. Data needed for the Project were exported to ArcInfo coverage using Chinese MapGIS, then imported to TNTmips GIS, the GIS software used in the final compilation for the project. Georeferencing problems of the data of Foshan and Dongying Cities were addressed during the training.

1.4 Preliminary Research on Deep Groundwater in Henan and Shandong Provinces, China

Dr. Yusaku Taguchi, DCGM Project Coordinator, visited Henan and Shandong Provinces, China on May 16-26, 2000 to conduct research on deep groundwater in the Yellow River Basin. This is a preliminary research of a proposed case study for the forth-coming DCGM Phase IV Project which is expected to start in April 2001. The CCOP Technical Secretariat invited Dr. Yohei Uchida from the Geological Survey of Japan (GSJ) as a resource person and Dr. Kim Yong-Je from the Korea Institute of Geology, Mining and Materials as a participant. The survey was strongly supported by the staff of the China Geological Survey and Henan and Shandong Provincial Department of Land and Resources and related organizations. As the Yellow River Basin covers a very big area, the Secretariat is planning to do a similar investigation at another locality of the basin in the near future.

1.5 Chao Phraya Seismic Survey

During 8-25 June 2000, a Shallow Water Geophysical Survey, organized by the CCOP Technical Secretariat and Department of Mineral Resources (DMR) of Thailand and supported by CCOP/JECF funds, was conducted along the Bang Pakong river, Saen Saeb canal, Phra Khanong canal, Pravate Burirome canal, Samrong canal, and Phra Ong Chao Chaianucit canal in and around Bangkok Metropolitan area, Thailand. A total of 176 line-kms of seismic

profiles were obtained and interpreted. Water depths along the survey lines range from 3 to 20 m in the river and 1.7 to 3 m in canals.

During the above-mentioned period, from 19 to 24 June, the geophysical survey training onboard and seismic interpretation were successfully carried out for participants from Thailand as well as one participant each from Cambodia and Vietnam. CCOP invited Dr. Yasumasa Kinoshita and Dr. Fumitoshi Murakami from the Geological Survey of Japan as resource persons for the on-site training.

This is the final survey for the three-year project. The results from the three years' work are expected to give new information about the shallow deposits in the Chao Phraya delta.

1.6 Final Workshop of DCGM-III

The Workshop on Technical Adjustment of the Final Product of DCGM Phase III Project was held on 19-22 September 2000 in Yogyakarta, Indonesia. It was attended by 21 representatives of CCOP Member Countries. The opening ceremony started with a welcoming address by Mr. Yousana O.P. Siagian, Director of DEG, Bandung. The Workshop was opened by Mr. S. Suryantoro, Director General of DGGMR and Permanent Representative of Indonesia to CCOP. Dr. Taguchi, Project Coordinator of DCGM III delivered his opening remarks. Dr. Wakita as Chief Compiler delivered a keynote address.

Two CD-ROMS including the draft of TNT atlas (TNTmips format) and E00 format files were distributed to each country member. All countries went through their data given in CD-ROM and carried out necessary corrections on data sets including metadata.

The proposed title and contents of the CD-ROM were distributed to all members and each member was requested will be to comment on the paper contents. The proposed layout of the CD-ROM cover was discussed. The Workshop has decided that the main title of the CD-ROM will be "Urban Geoscientific Data of East and Southeast Asia", and sub-title "GIS data sets of 11 cities (Nagoyoa, Guangzhou, Dongying, Ulsan, Kuala Lumpur, Hanoi, Phanom Pehn, Port Moresby, Cebu, Phuket, Bandung). The authors and the publisher are maintained as proposed. The first edition of the data sets will be published both in TNTmips format for TNTAtlas as viewer and E00 format, and the second edition will be published in shapefile for Arcexplorer and Mac version.

Dr. Taguchi, introduced the main purpose of the proposed DCGM IV project as constructing database of groundwater such as geology, groundwater level, groundwater chemistry and discharge. The final result

will be published in a database and uploaded to the CCOP homepage. In addition, the softwares of borehole data collection and drawing for column and cross-section usable for this project was demonstrated by Dr. Inazaki.

Finally, the schedule of the datasets revision and publication was decided as follows. All revised data sets and manuscripts of technical bulletin should be submitted by mid-October, 2000. The CD-ROM will be published in April 2001.

1.7 3rd Asia Geothermal Symposium

The 3rd Asia Geothermal Symposium was carried out on 25-26 October, 2000 in Bangkok, Thailand. This was jointly organized by the CCOP Technical Secretariat with NEDO. There were 35 participants from China, Indonesia, Japan, Papua New Guinea, The Philippines, Thailand and Vietnam. An excursion was organized by the Department of Mineral Resources to Chiang Mai and Chiang Rai on 27-29 October 2000.

Coastal Management and Geohazard Sector

1. CCOP COASTPLAN

The CCOP COASTPLAN project was officially terminated in December 1999 as per the contract with The Netherlands Embassy in Bangkok. The final report including the financial part for the period 1 April 1995 to 31 December 1999 was submitted to the Embassy on 15 January 2000.

Final technical adjustments were done for the CD-ROM that will be Produced that will contain all the results of the case studies within the project.

The Technical Secretariat in cooperation with TNO-NITG contacted The Netherlands Embassy to seek a continuation of the CCOP-COASTPLAN project. Consideration of a possible continuation will be made after the evaluation of the previous project and the needs of CCOP Member Countries.

2. CCOP Technical Meeting on Standardization of Slope Disaster Susceptibility in East and Southeast Asia

On July 14-16, 1999, the CCOP Technical Secretariat held a technical meeting attended by 19 participants in Pattaya, Thailand entitled "Technical Meeting on Exodynamic Geohazards in East and Southeast Asia". In this meeting, a lot of information about geohazards occurring in the CCOP region were presented. Among the geohazard disasters, costing the lives of numerous people every year, slope failure-related events are the most severe and common among

the CCOP Member Countries. It is for this reason, that slope failure was made as the main theme for the technical meeting on Geohazards, which was held in Kunming, Yunnan Province, China on July 12-15, 2000.

CCOP Technical Secretariat invited one (1) participant from each Member Country, two from China and three resource persons from Japan to present in this meeting entitled "Standardization of Slope Disaster Susceptibility in East and Southeast Asia". Another four (4) reports were presented by Chinese participants from the local provinces or organizations. The meeting gained much information about slope disasters from the presentations and subsequent discussions. A field excursion, to the Dongchuan area was held in order to observe the mudflows and slope failures in the area.

The technical meeting, attended by around 50 participants, received great support from the Ministry of Land Resources of China, China Geological Survey, Yunnan Department of Land and Resources and Bureau of Geology and Mineral Resources Exploitation and Development of Yunnan Province. They have greatly aided the technical Secretariat in the preparation and successful implementation of this technical meeting.

Geodata and Information Management

1. ITIT International Symposium on the Role of the Public Research Organizations and their International Cooperation in Geo-resources and Environment

The Director of the CCOP Technical Secretariat was invited to the 'ITIT International Symposium' which was held on 11-14 January 2000 at the International Conference Centre, Hiroshima, Japan. The symposium was sponsored by AIST/MITI, Japan; co-sponsored by CCOP and the Japan Industrial Technology Association (JITA) and organized by the Geological Survey of Japan. More than 50 leaders of public geoscience institutions as well as geoscientists/scientists from various countries including the CCOP Member Countries, were invited. The symposium consisted of three sessions: Session I - New Frontiers for Georesources and Environmental Studies; Session II - The Role of Public Organizations in Technology Development; and Session III - Visions of Research Institute Reform for the 21st Century. The Director presented a paper entitled 'The Role of CCOP in International Cooperation in Geo-resources and Environment in East and Southeast Asia' at Session II.

2. The CCOP Technical Secretariat has undergone digital scanning of CCOP Publications (e.g. CCOP Technical Bulletin, CCOP Technical Publications) for future publication to the CCOP Homepage.



Publication and Information Programme

The CCOP's publication programme continued with its main work under the publication policy. The total of sales for 2000 amounted to US\$ 5080.89 The publication published in this year were:

- **Report of the 34th CCOP Steering Committee Meeting**
1-2 November 1999, Hanoi, Vietnam
- **Report of the 35th CCOP Steering Committee Meeting**
27-29 March 2000, Bangkok, Thailand
- **Report of the 36th CCOP Steering Committee Meeting**
30-31 October 2000, Bangkok, Thailand
- **CCOP Working Calendar for 2000**
- **1999 CCOP Annual Report**
- **CCOP Newsletter vol. 24 no. 4**
(October - December 1999)
vol. 25 no. 1-3 (January-August 2000)
- **CCOP Proceedings Part-I**
of the 36th CCOP Annual Session
(Report of the Committee)
26-29 October 1999, Hanoi, Vietnam
- **CCOP Proceedings Part- I**
of the 37th CCOP Annual Session
(Report of the Committee)
24-27 October 2000, Bangkok, Thailand
- **Technical Bulletin no. 27**
Geotectonic Map of East and Southeast Asia
- **Technical Bulletin no. 28**
Proceedings of the International Symposium on Environmental Groundwater Issues in China
- **Technical Bulletin no. 29**
Proceedings of the International Symposium on Remote Sensing for Disaster Mitigation
- **CCOP Guidelines for Risk Assessment of Petroleum Prospects**
(product of REP-II activities)
- **Technical Publication No. 27**
(with CD-ROM): Exodynamic Geohazards in East and Southeast Asia



Financial Highlights

With strong support from the Member and Cooperating Countries, CCOP continued to maintain a healthy financial position. CCOP's cash balances as of 31 December 2000 totals US\$ 311,077.86 It is heartening to note that the annual cash contributions from the participating member Governments were all made in a timely manner as pledged. The CCOP Technical Secretariat appreciates the gesture of the Republic of Korea for its increased of her cash contribution to US\$ 70,000 in 2000 (see annex I).



CCOP

MEMBER COUNTRIES' CONTRIBUTIONS

for the year ended 31 December 2000
(amount in US Dollars)

Member Country	received in the year 2000		expected to receive in the year 2001		
	for 1999 contribution	for 2000 contribution	for 1999 contribution	for 2000 contribution	for 2001 contribution
Cambodia		5,000.00			5,000.00
China		50,000.00			50,000.00
Indonesia	40,000.00	40,000.00			25,000.00
Japan(1)		(36,000.00)			(36,000.00)
Korea		70,000.00			60,000.00
Malaysia		50,000.00			50,000.00
Papua New Guinea	10,000.00	10,000.00			10,000.00
Philippines	24,565.34		15,434.66	40,000.00	40,000.00
Singapore					
Thailand		40,000.00			40,000.00
Vietnam		15,000.00			15,000.00
Total (Included Japan)	74,565.34	280,000.00 (316,000.00)	15,434.66	40,000.00	295,000.00 (331,000.00)

Notes:

(1) JECF Funds Project B. for administrative support i.e. IT Manager's salary, communications, office supplies & stationeries, printing cost.



CCOP FINANCIAL STATEMENT

for the year ended 31 December 2000

(amount in US Dollars)

Fund balances as at 1 January 2000			180,559.86
Income:			
1) Member Countries' Contributions	344,565.34		
2) Publications sales	5,080.89		
3) Project management	1,000.00		
4) Project support fund	46,000.00		
5) Others	66,426.23		
Total Income		463,072.46	
Expenditures:			
1) Personnel expenses	257,488.19		
2) Meeting/travel expenses	32,547.15		
3) General administrative expenses	23,692.25		
4) Publications	4,727.42		
5) Technical activity support			
6) Special expenditures	2,834.32		
7) Others			
Total Expenditures		321,289.33	
Income over/(under) expenditures			141,783.13
Adjustment to reflect actual cash inflow/(outflow):			
1) (Increase)/decrease in Receivables & Advance	(4,566.19)		
2) Increase/(decrease) in Payable & Accrued Expense	(170.39)		
3) Purchase of Fixed Assets	-		
4) Depreciation	2,834.32		
5) Gain/(loss) on exchange rate conversion	(9,362.87)		(11,265.13)
Fund balances as of 31 December 2000			311,077.86



CCOP-PROJECT FUND

for the year ended 31 December 2000
(amount in US Dollars)

	JECF(A)	JAPAN FUND	REP II
Fund balances as of 1 January 2000	43,889.07	9,445.29	196,994.50
Income:			
Received from Fund	99,169.91		65,107.52
Others	5,455.82	742.47	9,597.63
Expenditures:			
Technical Activities Expenses	108,061.17	2.68	47,186.82
Adjustment to reflect actual cash inflow/(outflow):			
1) (Increase)/decrease in Receivables & Advance			725.11
2) Increase/(decrease) in Payable & Accrued Expense	12.80		
3) Depreciation	817.42		
5) Gain/(loss) on exchange rate conversion	(1,905.35)	(577.45)	(2,148.84)
Fund balances as of 31 December 2000	39,378.50	9,607.73	223,089.10



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Acronym

A

- ACE : Asean Center for Energy (Indonesia)
 AIST : Agency of Industrial Sciences and Technology (Japan)
 ASCOPE : ASEAN Council on Petroleum
 ASEAN : Association of Southeast Asian Nations

B

- BGR : Federal Institute of Geosciences and Natural Resources (Germany)
 BGS : British Geological Survey
 BRGM : Bureau de Recherches Geologiques et Minieres (France)

C

- CAPEX : CCOP-ASCOPE-PETRAD Environment and Safety Programme
 CCOP : Coordinating Committee for Coastal and Offshore Geoscience Programmes in East and Southeast Asia
 CD-ROM : Compact Disk - Read Only Memory
 CIFEG : International Centre for Training and Exchanges in the Geosciences
 CIHEGE : China Institute of Hydrogeology & Engineering Geology Exploration
 CNPC : China National Petroleum Corporation
 CNOOC : China National Offshore Oil Corporation
 CNSPC : China National Star Petroleum Corporation
 CPC : Circum-Pacific Council
 CPGDP : The Circum Pacific Geo-spatial Data Programme

D

- DANIDA : Danish International Development Assistance
 DCGM : Digital Compilation of Geoscientific Map Programme
 DENR : Department of Environment and Natural Resources (United Nations)
 DGGMR : Directorate General of Geology & Mineral Resources
 DGMV : Department of Geology and Minerals of Vietnam
 DID : Department for International Development (UK)
 DMR : Department of Mineral Resources (Thailand)

E

- EPF : Exploration Promotion Forum
 ESCAP : Economic and Social Commission for Asia and the Pacific

G

- GEUS : Geological Survey of Denmark and Greenland
 GIS : Geographic Information System
 GSJ : Geological Survey of Japan

I

- ICB : Institutional Capacity Building
 ICZM : Integrated Coastal Zone Management
 IOC/WESTPAC : Intergovernmental Oceanographic Commission (of UNESCO)/Subcommission for Western Pacific
 IOMAC : Indian Ocean Marine Affair Cooperation
 ITAMERA : Integrated Technologies for ASEAN Mineral Exploration and Resources Assessment Project (Australia)
 ITIT : The Institute for Transfer of Industrial Technology Programme (Japan)
 IUGS : International Union of Geological Sciences

J

- JECF : Japan-ESCAP Co-operation Fund
 JICA : Japan International Co-operation Agency
 JITA : Japan Industrial Technology Association

K

- KaR : Knowledge and Research
 KIGAM : Korea Institute of Geology, Mining and Materials

M

- MITI : Former Ministry of International Trade and Industry (Japan)
 MLR : Ministry of Land and Resources (China)
 MMAJ : Metal Mining Agency of Japan

N

- NEDO : New Energy and Industrial Technology Development Organization (Japan)
 NITG-TNO : The Netherlands Institute of Applied Geoscience TNO
 NORAD : Norwegian Agency for Development Cooperation
 NPDI : Norwegian Petroleum Directorate

O

- OGRM : Oil & Gas Resources Management
 OMO : Offshore Mining Organization (Thailand)

P

- PANGIS : Pan-African Network of Geological Information System
 PETRAD : International Programme for Petroleum Management and Administration (Norway)
 PPM : Petroleum Policy and Management
 PTT : Petroleum Authority of Thailand

R

- REP : Resource Evaluation and Planning Programme

S

- SANGIS : Southeast Asian Network of Geological Information System
 SEC : Safety and Environment Centre (Japan)

U

- UN : United Nations
 UNESCO : United Nations Educational, Scientific and Cultural Organization
 USGS : United States Geological Survey
 USNSF : US National Science Foundation

V

- VPI : Vietnam Petroleum Institute

W

- WB : World Bank
 WGGC : CCOP/CPGDP Project on Geological Correlation
 WGRA : Working Group on Resources Assessment

COORDINATING COMMITTEE FOR COASTAL AND OFFSHORE

GEOSCIENCE PROGRAMMES IN EAST AND SOUTHEAST ASIA

(CCOP)

CCOP - an Intergovernmental Organization for promotion and co-ordination of geoscientific programmes with emphasis on joint resource evaluation; environmental advocacy; geo-hazard mitigation, and regional sustainable development in offshore and coastal areas in East and Southeast Asia

CCOP MANDATE:

“The purpose of CCOP is to carry out joint applied geoscience programmes for sustainable development of the coastal and offshore areas in East and Southeast Asia”

Member Countries:

Cambodia, China, Indonesia, Japan, Republic of Korea, Malaysia, Papua New Guinea, The Philippines, Singapore, Thailand and Vietnam

Co-operating Countries:

Australia, Belgium, Canada, Denmark, France, Germany, Japan, The Netherlands, Norway, Russian Federation, Sweden, Switzerland, United Kingdom and United States of America

***Its present office premise is kindly provided by the Royal Thai Government, through the kind arrangement of the Department of Mineral Resources (DMR), Ministry of Industry.*

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