

Reports from Divisions and Other Committees

Associate Members Committee

To maintain strong links with other divisions and some external associations, the Activity Sub-committee held 31 activities throughout the Session. They included a series of seminars related to the environment, safety, modern building & civil technology, financial management and health as well as various site visits. All were well attended by members.



Mr Simon H L Pang

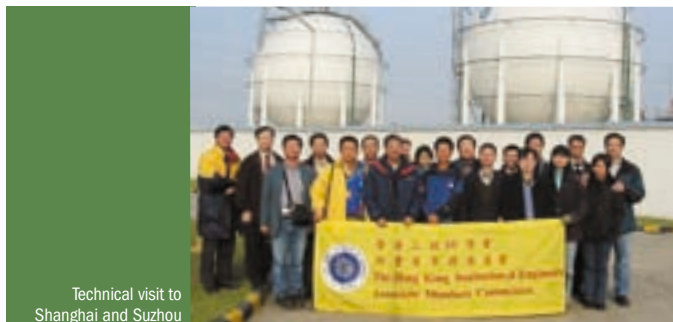
The Associate Members Committee (AMC) was pleased to announce the decision made by the Council that graduates of Higher Certificate, Higher Diploma and Associate Degree could apply for Graduate Membership status subject to compliance with certain requirements. To establish standards for Associate Membership, the AMC set up a Training Sub-committee to liaise with the Working Group for the Training Scheme for Associate Members (AMs). This Sub-committee prepared and submitted drafts of training programmes for the three designated Discipline

Advisory Panels (DAP), including Civil, Building Services and Manufacturing and Industrial. The drafts are being reviewed by DAP representatives.

To support the Membership Drive Talk programmes led by the Mechanical, Marine, Naval Architecture & Chemical Division and the Electrical Division, the AMC took part in presentations to students at the Hong Kong Institute of Vocational Education (Tsing Yi) and Haking Wong Centres. In addition to this, most of Committee members conducted career talks as part of the School Ambassador Programme organised by the Public Relations Committee.

In addition, the AMC continued to promote the professional status of AMs in the construction industry. With the assistance of Ir Dr Greg Wong, the Vice President, the AMC submitted a wish list for the consideration of the Working Group on Manpower Training and Development of the Provisional Construction Industry Co-ordination Board (PCICB). PCICB supported the proposal, in principle, to promote AMs, and the Environment, Transport and Works Bureau agreed in the Board Meeting to implement the recognition of AMs in their Works Department recruitment. Meanwhile, the Buildings Department has accepted AMs with two years of relevant post qualification experience as qualified TCP3 in the Site Supervision Plan of Building Projects.

The success of the Committee during this busy Session was due to the support of all Committee Members and fellow members of the HKIE.



Technical visit to Shanghai and Suzhou

Technical Meetings/Seminars

Date	Title	Speaker(s)/ Remarks
30 Jun 2003	Safety Behaviour	Charles C K KAM
9 Jul 2003	Construction on Modular Building	Ted LAWTON
8 Aug 2003	Environmental Protection in Construction Site	LAW Yiu Hung
15 Sep 2003	New Environmental Technologies for Dry and Wet Weather Storm Water System	Daniel HUNG
13 Oct 2003	Confined Space Safety	WONG King
7 Nov 2003	The Public Interest in Reducing Road Opening and Safer Digging by Using a Utility Information Center	John SHI Edward LAW Eugene TAM Zico KWOK
17 Nov 2003	Tunnel Boring Machine (TBM)	Ivan CHAU
10 Dec 2003	To Kau Wan Soil Decontamination Plant	Tim HARWOOD Dan LAM
2 Jan 2004	Financing Investment Strategy in China Projects	Thomas PANG
13 Feb 2004	Convergent Billing - Ready for 3G	Patrick TSANG
18 Feb 2004	Quality Supervision of Foundation Works - Role of Engineers and Construction Supervisors	James C W LAU Philip C T KWOK
20 Feb 2004	Safety - a Science or an Art	Michael LEUNG
24 Feb 2004	Public Interest in Reducing Road Opening and Safer Excavation by Using a GIS-based Utility Information Centre	John SHI Edward LAW Eugene TAM Zico KWOK
1 Mar 2004	Seminar on Ways to Prepare Professional Assessment of Corporate Membership	Peter Y S WONG Louis F S LOCK Alain TANG
29 Mar 2004	中醫學的新觀念	林傲梵
2 Apr 2004	How to Conduct Safety Training	Alex TSE
20 Apr 2004	CAI Symposium 2004	-
23 Apr 2004	Informal Gathering	-
19 May 2004	AGM Development of PCICB	- Greg C Y WONG
18 Jun 2004	Hot Dip Galvanised Against Steel Corrosion	T T TAM Billy WONG Sam CHEUNG W Y LO

Technical Visits

Date	Title
26 Jul 2003	Castle Peak Power Station - CLP
2 Aug 2003	Daido Pre-cast Concrete Factory at Tai Po
18 Oct 2003	Pre-cast Concrete Block & Panel Factory at Yuen Long Industrial Area
28 Nov - 1 Dec 2003	Shanghai & Suzhou
20 Dec 2003	Science Park
10 Jan 2004	Shenzhen Container Berth
28 Feb 2004	China Southern Glass cum Forum on Production and Quality Control of Architectural Glasses
13 Mar 2004	KCRC ERE-LMC Spur Line Project - Kwu Tung Station and TBM Tunnel
17 Apr 2004	Wader Engineering Co Ltd at Fanling
22 May 2004	UtilityINFO (HK) Ltd at Cyberport

◆ Authorised Person/Registered Structural Engineer Committee

In the 2003/2004 Session, the Committee continued to contribute to the Government and the community.



Ir Ng Hon-keung

Members of the Committee served on the Authorised Persons Registration Committee and Panel, Structural Engineers Registration Committee, Contractors Registration Committee and Panel, Buildings Ordinance Appeal Tribunal Panel, Building Safety Loan Scheme Vetting Committee and the Authorised Person Liaison Group of the Fire Services Department. The Committee also participated in the drafting of the Code of Practice for Foundations and provided views and comments to the Draft Code of Practice on Wind Effects, Draft Code of Practice for Dead and Imposed Loads for Buildings, Draft Code of Practice on Structural Use of Concrete (Limit State Approach) and the Draft Code of Practice on Structural Use of Steel (Limit State Approach). Inputs to new issues of and amendments to Practice Notes for Authorised Persons and Registered Structural Engineers were also provided.

Senior officers of the Buildings Department were invited to attend the Committee meetings to share with Members the experience of the Buildings Department on technical codes and standards.

The Committee also submitted views of and expressed concern about the Buildings (Amendment) Bill 2003.



Ir Prof Francis H Y Chan

◆ Biomedical Division

The Division Committee met five times during the Session to plan the activities and events of the year, and to consider other matters including raising the profile and membership of the Division and to promote Continuing Professional Development (CPD) for biomedical engineers. Members actively worked with local universities regarding the formation of more biomedical engineering related courses.

This Session, the Division applied funding from the Professional Services Development Assistance Scheme (PSDAS) to organise a Conference on Biomedical Engineering - BME 2004. The Conference aimed to promote the status and to enhance the capabilities of local engineers in rehabilitation technology, clean room production, medical imaging technology as well as in surgery tools and clinical instrumentation development. The Division also prepared the formation of the corresponding discipline and the formulation of the Scheme 'A' training programme.

The Division provided support to the local tertiary institutions to apply for the accreditation of their undergraduate programmes on biomedical engineering. The accreditation of the programme provided by the Hong Kong Polytechnic University was completed and the accreditation of the biomedical engineering programme provided by the University of Hong Kong is in progress. With our continuous efforts to promote the membership of the Division to the tertiary institutions, it is hoped that the number of members of the Division will grow gradually.



Technical visit to Hong Kong Science Park

Technical Meetings/Seminars/Visit

Date	Title	Speaker(s)/Remarks
19 Sep 2003	Symposium on HK Medical & Healthcare Device Industry 2003	HAO He Ping
9 Dec 2003	Introduction of the Medical Research Division, NHRI & an Overview of Biomedical Engineering and Medical Physics Activities in the Mainland	Ned H C HWANG HU Yimin
17 Jan 2004	Hong Kong Science Park - Top Infrastructure and Services to Support Local Technological Development and Innovative Industries	Ricky MA
	Technical Visit to the Hong Kong Science Park	-
23 Mar 2004	Safety and Risk in Medical Devices	Justin McCARTHY
25-26 Mar 2004	Joint Study Programme on "Practical Workshop on Regulation of Medical Devices and Investing Medical Device Industry in China"	Officials from PRC Central Government and Shenzhen Healthcare Departments

◆ Building Division

During this Session, the Committee Members of the Division worked hard during their regular monthly meetings and Sub-committee meetings to organise many activities, including technical visits, technical meetings, seminars and conferences. All were well supported by members and professionals from other related institutions.

Following the success of the first two Annual Seminars, the Division continued to hold its third Annual Seminar successfully with over 260 participants. The theme of this year was "Monitoring & Inspection of Building Works". Mr Marco Wu, Director of Buildings, gave the keynote speech in the Seminar.

Apart from organising a joint technical meeting with the Materials Division in December 2003, the Building Division also worked with other professional institutions to organise activities. The Structural and Building Divisions combined to lead the Organising Committee of the first Joint Conference, which was held in October 2003, with the theme "Building Development and Practice in the 21st Century". This was the first ever conference jointly organised by the Hong Kong Institute of Architects, the Hong Kong Institute of Surveyors and the Hong Kong Institution of Engineers. The Division also led the Organising Committee of the three Institutions to hold a joint seminar on "Licensing of Commercial Premises." This was held over two evenings in September last year.



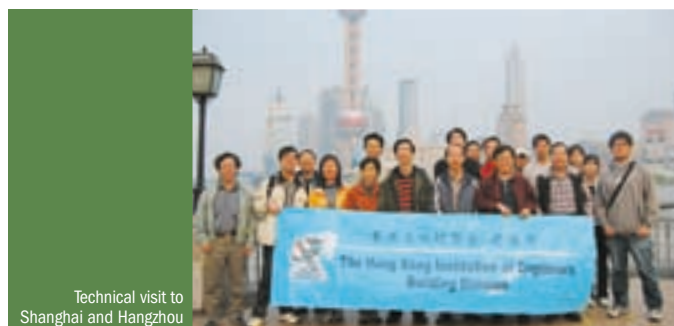
Ir Joseph C C Chan

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In order to promote better understanding of the role, objectives and future activities of the Division to government departments, government officials were invited as speakers at seminars and conferences, and also as guests in a spring dinner to exchange views with members.

The Division also arranged China-link activities, including a visit to “City Link Development” in Shenzhen and a trip to Shanghai and Hangzhou. This enabled members to better understand the regulatory policies of the Government and construction work and practice in the Mainland.

The Division held its AGM and Annual Dinner on 7 May 2004 at the Langham Hotel. Ir C M Lam, Director of Fire Services, was the Guest of Honour.



Technical visit to Shanghai and Hangzhou

Technical Meetings/Seminars

Date	Title	Speaker(s)/Remarks
9 & 30 Sep 2003	Licensing of Commercial Premises	Jointly organised with HKIA and HKIS
27 Sep 2003	First Symposium of Built Environment Symposia 2003/2004 - Technical Meeting on Review of Current Practice in Construction Industry and the Way Forward	Organised by SPACE of HKU, co-sponsored by BD Division
18 Oct 2003	Conference on Building Development and Practice in 21st Century	Jointly organised with HKIA and HKIS
6 Dec 2003	Second Symposium of Built Environment Symposia 2003/2004 - Technical Meeting on Sustainable Construction	Organised by SPACE of HKU, co-sponsored by BD Division
9 Dec 2003	Pre-mature Building Deterioration	W T WONG George GREENE Daniel BROWN T K CHEUNG Jointly organised with MT Division
7 Feb 2004	Third Symposium of Built Environment Symposia 2003/2004 - Technical Meeting on Review of Construction Contracting System	Organised by SPACE of HKU, co-sponsored by BD Division
12 Feb 2004	Metal Scaffolding in Slope Works	S W POON
18 Mar 2004	Annual Seminar on Monitoring & Inspection of Building Works	Albert YEUNG Philip KWOK H T CHAN Y Y WONG Alex CHEUNG Francis YAU Freddy LEE John PAK M S HUI Calvin CHAN
22 Apr 2004	Metal Scaffolding - Present and Future Application	K W LIU SHEN Haiyan
7 May 2004	AGM & Annual Dinner	-

Technical Visits

Date	Title
22 Nov 2003	Kowloon Station Development
27 Mar 2004	City Link, Shenzhen
8-12 Apr 2004	China Link (Shanghai & Hangzhou)
24 Apr 2004	Pre-cast Concrete Building at Fu Tei

Building Services Division

With strong and enthusiastic support from all Division Committee Members, the Building Services Division continues to thrive.

The Division Committee started the Session with a clear plan which defined the focus of the Division's CPD activities and development. The focal points were SARS and health-related building improvements, fire engineering, energy conservation, building/building services renovations/retrofits and the Mainland projects/manufactures and liaison.



Ir Andrew M W Wong

In line with this programme, the Division Committee organised 52 CPD activities during the Session. These activities included 23 talks, six workshops, ten visits, three symposia and 12 short courses. Almost all of the activities were co-organised with other HKIE divisions and/or other institutions.

One major achievement of the Division was the timely formation of the “SARSbusters” group with the Hong Kong Branch of the Chartered Institution of Building Services Engineers (CIBSE), the Hong Kong Chapter of American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE), the Hong Kong Air Conditioning and Refrigeration Association (ACRA), the Building Services Operation and Maintenance Executives Society (BSOMES) and the University of Hong Kong (HKU) in March 2003. The SARSbusters later joined the effort of “the HKIE Task Force on SARS Matters” to set up a full-scale prototype SARS hospital ward at the HKU. At the end of 2003, nine Government hospitals in Hong Kong were retrofitted with SARS/infectious disease wards and an air-conditioning design similar to that proposed by the SARSbusters.

The SARSbusters also proposed a self-priming drainage design for floor drains in toilets. Such design was included in a Practice Note for Authorised Persons and Registered Structural Engineers issued by the Buildings Department in 2003.

The Division Committee also decided at the beginning of the Session that there should be further promotion of the HKIE and the Building Services Division among building services engineering students in tertiary institutions. The Division Committee decided to continue to present four student scholarships of HK\$5,000 each for the Session. In addition, the Division is organising a Student Presentation Competition which is going to be held in September for about 80 participants.

This report would not be complete without mentioning the issue of Registered Building Services Engineer (RBSE). The Buildings Department issued a draft paper dated January 2004 on the question of RBSE. Members of the Division assisted the Building Services Discipline Representative, Ir Alfred So, in preparing a paper supporting the need of RBSE today. The paper was formally sent to the Buildings Department by the President, Ir Dr Alex Chan, in April 2004.



Asia Pacific Conference
on Built Environment

The 2003/2004 Session was certainly an eventful and successful year for the Building Services Division.

Technical Meetings/Seminars

Date	Title	Speaker(s)/ Remarks
8 Jul 2003	Application of Computational Fluid Dynamics in Building Services Engineering with Examples from SARS-related Research	Jointly organised with CIBSE and ASHRAE
19 Jul 2003	Workshop on Hot Water Supply System and Analysis for High Rise Buildings	Jointly organised with IOP
19 Aug 2003	Use of PIMS for Construction Projects	Jointly organised with CIBSE and ASHRAE
20 Aug 2003	ESFR Sprinkler Application	Jointly organised with SFPE and PolyU
22 Aug 2003	Short Course on ACMV System Review (I) - Refrigeration & Water Side Systems and Equipment	Jointly organised with CIBSE, ASHRAE, BSOMES and ACRA
23 Aug 2003	Workshop on Plumbing and Drainage System Design	Jointly organised with CIBSE and ASHRAE
29 Aug 2003	Short Course on ACMV System Review (II) - Air Side Systems and Equipment	Jointly organised with CIBSE, ASHRAE, BSOMES and ACRA
19 Sep 2003	Short Course on Automatic Controls (I) - Chiller Plant Controls	Jointly organised with CIBSE, ASHRAE, BSOMES and ACRA
20 Sep 2003	Workshop on Professional Liability of Engineers	Jointly organised with CIBSE and ASHRAE
22 Sep 2003	IAQ Management	Jointly organised with CIBSE, ASHRAE, HKIFM, EA and PolyU
26 Sep 2003	Short Course on Automatic Controls (II) - CCMS	Jointly organised with CIBSE, ASHRAE, BSOMES and ACRA
30 Sep 2003	Water Cooled A/C System in Hong Kong under EEO Pilot Scheme	Jointly organised with EG Division, CIBSE and ASHRAE
3 Oct 2003	Short Course on Acoustic & Vibration Control for ACMV Installation	Jointly organised with CIBSE, ASHRAE, BSOMES and ACRA
7 Oct 2003	Short Course on Indoor Air Quality	Jointly organised with CIBSE, ASHRAE, BSOMES and ACRA
9 Oct 2003	Short Course on Legislation (I) - Building Ventilation Regulation	Jointly organised with CIBSE, ASHRAE, BSOMES and ACRA
14 Oct 2003	Short Course on Legislation (II) - VAC Control, Smoke Control and Staircase Pressurisation System	Jointly organised with CIBSE, ASHRAE, BSOMES and ACRA

16 Oct 2003	Short Course on COP of Energy Efficiency Installation for A/C Installation	Jointly organised with CIBSE, ASHRAE, BSOMES and ACRA
17-18 Oct 2003	Shandong - Hong Kong Joint Symposium 2003 on New Technology for Better Built Environment	Jointly organised with CIBSE, ASHRAE, PolyU and various Mainland societies in Qingdao and Shandong
21 Oct 2003	Short Course on ACMV Testing & Commissioning (I) - Methodology & Procedure	Jointly organised with CIBSE, ASHRAE, BSOMES and ACRA
28 Oct 2003	Design & Performance of Plate Type Heat Exchanger	Jointly organised with MC Division
	Short Course on ACMV Testing & Commissioning (II) - Case Study	Jointly organised with CIBSE, ASHRAE, BSOMES and ACRA
6 Nov 2003	Performance-based Building Energy Code	Jointly organised with EG Division
13 Nov 2003	Short Course on MCC & LMCP for ACMV Installations	Jointly organised with CIBSE, ASHRAE, BSOMES and ACRA
18-19 Nov 2003	Asia Pacific Conference on Built Environment	Jointly organised with CIBSE, ASHRAE, PolyU and EMSD
24 Nov 2003	Green Approach to Electrical Transmission Substation	Jointly organised with EL Division, CIBSE and ASHRAE
12 Dec 2003	Symposium on Legionnaires' Disease & Other Respiratory Infections & Their Prevention	Jointly organised with Prevention of Legionnaires' Disease Committee and The Hong Kong Tuberculosis Chest and Heart Diseases Association
13 Dec 2003	Workshop on Crisis Management and Insurance Claim	Jointly organised with SSG, EI, BSOMES and IVE
16 Dec 2003	We Can Do Better Using the Value Approach	Jointly organised with CIBSE and ASHRAE
19 Dec 2003	SARS and Occupational Safety & Health	Jointly organised with SSG
10 Jan 2004	Maintenance Strategy for HK International Airport	Jointly organised with CIBSE and ASHRAE
27 Jan 2004	BIPV Installation in Wanchai Government Office	Jointly organised with CIBSE and ASHRAE
28 Jan 2004	Water Cooled A/C System in Hong Kong	Jointly organised with EG Division
13 Feb 2004	Revised COP in Electricity Wiring Regulations	Jointly organised with CIBSE and ASHRAE
20 Feb 2004	Workshop on System Solutions - Harmonics and EMF/EMI/EMC	Jointly organised with SSG, EL Division, CIBSE and ASHRAE
28 Feb 2004	Cable Standard/Application	Jointly organised with CIBSE and ASHRAE
2 Mar 2004	Air Distribution and Filtration Design with Simulated Air Flow Models	Jointly organised with CIBSE and ASHRAE
27 Mar 2004	Workshop on Computational Fluid Dynamics in Building Services Engineering	Jointly organised with CIBSE and ASHRAE
29 Mar 2004	IAQ for Hospitals	Jointly organised with IHEEM, CIBSE and ASHRAE

Reports from Divisions and Other Committees

21 Apr 2004	Professional Assessment	Alfred SO
26 Apr 2004	Technical Issues of XLPE Cables and Colour Coding of LV Cables	Jointly organised with EL Division, CIBSE, IEE and SSP
30 Apr 2004	The Troubleshooter in Properties Management - Views from the Building Services Operation & Maintenance Practitioners	Jointly organised with CIBSE, ASHRAE and BSOMES
9 Jun 2004	Recent Development in Residential Air Conditioning	Jointly organised with PolyU, CIBSE and ASHRAE
19 Jun 2004	Innovative Lamp & Lighting Technologies	Jointly organised with IEE, PolyU, CIBSE and ASHRAE
25 Jun 2004	Benefits of Heat Pipes in Warm and Humid Climate	Jointly organised with CIBSE and ASHRAE

Technical Visits

Date	Title
9 Aug & 6 Sep 2003	BIPV at Wanchai Government Office Building
25 Oct 2003	Science Park Phase 1a Buildings
15 Nov 2003	MTR Depot at Tseung Kwan O
6 Dec 2003	Chiller Plant Visit in Shenzhen
13 Dec 2003	KCR Kam Tin Depot
10 Jan 2004	Chek Lap Kok Airport
7 Feb 2004	IFC Phase 2
28 Feb 2004	Cable Manufacturing Plant in Dongguan
24 Apr 2004	Marley Cooling Tower Factory in Guangzhou



Ir Francis W C Kung

Civil Division

The Civil Division was very active in this Session and organised many successful events that attracted overwhelming support.

On 5 December 2003, the Co-operation Agreement between the China Civil Engineering Society (CCES) and the Civil Division of the HKIE was renewed for another three-year term. The objectives of the Agreement are to enhance closer co-operation

between the two learned societies on the exchange of information and the arrangement of joint technical functions. The objectives were achieved with many joint events organised.

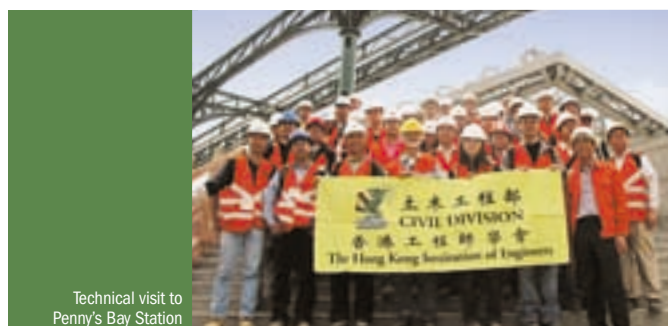
The 2003 Civil Division Annual Dinner was held on 28 November 2003 and attracted more than 500 distinguished guests and friends. As one of the annual events of the Division, the presentation ceremony of the Civil Engineering Papers of the Year Awards was performed during the Dinner.

Yet another record number of 27 technical meetings were arranged during the Session - 10 more than last Session. In addition to this, two Legal Series lectures were also held. Despite being postponed due to SARS early last year, the Second Regional Joint Symposium on Sustainable Development on the theme of Strategic Partnership in the Pearl River Delta was successfully held on 15-17 December 2003. Over 300 delegates from Hong Kong, the Mainland and overseas attended the Symposium.

The Division also agreed to co-organise the International Conference on Coastal Infrastructure Development - Challenges in the 21st Century. This is scheduled for November 2004 and will be followed by a one-day conference on Public Private Partnership with the Department of Civil Engineering of the University of Hong Kong in January 2005.

The Division accepted the invitation of the Young Members Committee to jointly organise the Sustainable Journey 2004. Planning of the bi-annual Winter Camp 2004 for the Division's young members has started and the camp will probably be held in the Mainland over Christmas.

A record-breaking number of site visits were organised during this Session involving more than 36 visits and over 1,100 participants. Visits to infrastructure developments across the Pearl River Delta Region were arranged as well as local visits, covering all fields of civil engineering works such as site formation, highways, waterworks, railways, port works. The Civil Division was grateful to the hosting organisations and companies, in particular those voluntary helpers who lead visiting groups and members who prepared the site visit reports for publication in the *Hong Kong Engineer*. In all, the 2003/2004 Session was another fruitful year for the Division.



Technical visit to Penny's Bay Station

Technical Meetings/Seminars

Date	Title	Speaker(s)/Remarks
10 Jul 2003	Value Management: Development and Applications in Civil Engineering Projects	Richard LYALL David YAU Jointly organised with the Institute of Value Management
	Use & Abuse of Experts	Teresa CHENG Jointly organised with GE Division
18 Jul 2003	Mainland Civil and Construction Technology Winter Camp for Youth of Hong Kong 2002 - Report Presentation	-
23 Jul 2003	MTR West Rail Interface Works	Antonio CHOI
31 Jul 2003	Non-destructive Underground Utility Surveys in Civil Engineering Projects	Zico KWOK Jointly organised with the Institute of Utility Surveyors
	Harbour Area Treatment Scheme Stage 1 - Design and Construction of the Deep Tunnel System	Douglas MCLEARIE

12 Aug 2003	Anti-virus Machines and Facilities	A Y T LEUNG Richard YUEN Rock NG Albert SO
4 Sep 2003	Design and Stability Analysis of Steel Scaffolding Using a Second-order Analysis	S L CHAN
23 Sep 2003	50 years of Infrastructure Development in Hong Kong	CHOW Che King
25 Sep 2003	Legal Series Lecture 3: SARS and Unexpected Events	Julian COHEN Kevin CORBETT
3 Oct 2003	The Long Road to Messina	William BROWN
6 Oct 2003	The 4th Brunel International Lecture on Poverty Alleviation - the Role of the Engineer	David SINGLETON Jointly organised with the ICE-HK Association
9 Oct 2003	Construction and Demolition Material Management in Hong Kong	Henry C Y CHAN
16 Oct 2003	Construction Simulation with SDESA	Ming LU
30 Oct 2003	Planning of the MTR South Island Line (Part 1)	Peter LEUNG Steve ROBINSON Martin READ
6 Nov 2003	Lamma Power Station Extension: Planning, Design and Construction	Dominic W L WONG
17 Nov 2003	Tunnel Boring Machine	Ivan CHAU Jointly organised with AMC and YMC
11 Dec 2003	Overview on the Bridge Link to Zhuhai and Macau	Leo K K LEUNG Jointly organised with the UK Institution of Highways and Transportation (HK Branch) and the HK Institution of Highways and Transportation
15-17 Dec 2003	Second Symposium on Sustainable Development of Guangdong, Hong Kong and Macau - Strategic Partnership in the Pearl River Delta	Jointly organised with Guangdong Provincial Association of Science and Technology, Macau Institution of Engineers and EN Division
13 Jan 2004	Tunnel Boring Techniques for Preserving the Environment	Philippe BOUQUET
10 Feb 2004	Bridge Bearings and Expansion Joints	Richard LAPALU
26 Feb 2004	Hong Kong 2030 Planning Vision and Strategy	Augustine W K NG
4 Mar 2004	West Rail Mei Foo Station	Andrew STARR Mark ASHTON
9 Mar 2004	Hong Kong - Shenzhen Western Corridor	Norman W P MAK
25 Mar 2004	MTRCL Penny's Bay Line Planning and Design	Antonio CHOI John BATCHELOR
15 Apr 2004	The Design and Construction of Ngong Ping Sewage Treatment Plant and Sewerage	Y T D CHEUNG K W MAK Y W YEUNG
23 Apr 2004	Would Ground Penetrating Radar (GPR) Help in Underground Utility Survey	Zhawn ZHANG Jointly organised with CA Division, Construction Industry Safety Management Association, PolyU Industrial Centre, and UTI
29 Apr 2004	Design and Construction of Tai Po Water Treatment Works	Derek ARNOLD
6 May 2004	Stonecutters Bridge: From Planning to Construction	Adrian K K NG

Technical Visits

Date	Title
5 Jul 2003	Dongjiang - Shenzhen Water Supply Improvement Project
5 & 12 Jul 2003	LPM Works of Reinforced Earth Wall Construction at Fung Shing Court
2 & 9 Aug 2003	KCRC East Rail Extensions: Tracklaying in Tunnel
16 Aug 2003	A Grand Tour of West Rail
23 Aug 2003	Yantian Port Phase III
10 Sep 2003	Water Main Rehabilitation by In-situ Lining Method
20 & 27 Sep 2003	Container Terminal No 9
11 & 18 Oct 2003	In-situ Lining Repair and CCTV Inspection of Drain Pipes
18 & 25 Oct 2003	Construction and Demolition Materials Recycling Facilities and Fill Bank in Tuen Mun
15 Nov 2003	Decontamination and Infrastructure Works for Hong Kong Disneyland Development
22 Nov 2003	Yantian Port in Shenzhen
29 Nov 2003	Formation and Associated Infrastructure Work for Development at Choi Wan Road and Jordan Valley
29 Nov & 6 Dec 2003	Horizontal Directional Drilling of Electrical Cables at Chung Hum Kok
13 Dec 2003	Tai O Development - Sheltered Boat Anchorage (Piling and Ecology Protection Works)
17 Dec 2003	Second Symposium on Sustainable Development of Guangdong, Hong Kong and Macau - Strategic Partnership in the Pearl River Delta: - Route A (Renewable Energy Project at Wan Chai Tower, Planning and Exhibition Gallery and Sewerage Treatment Plant in Stanley) - Route B (Reinforced Fill Wall at Fung Shing Court and C & D Sorting Facilities at Tuen Mun Area 38) - Route C (West Rail Project and Wetland Park in Tin Shui Wai)
31 Jan & 14 Feb 2004	Water Supply to South East Kowloon Development
28 Feb & 6 Mar 2004	Hong Kong Wetland Park Constructed Wetland for Tin Shui Wai New Town
6 & 13 Mar 2004	Aesthetic Greening and Stability Enhancement of Shallow Slopes Using Vetiver Deep Rooting Grass
13 Mar 2004	KCRC ERE - Lok Ma Chau Spur Line: Kwu Tung Station and Tunnel Boring Machine Works
20 & 27 Mar 2004	MTRC's Rail Link to Penny's Bay
27 Mar 2004	Pre-cast Concrete Fabrication Factory in Shunde
3 Apr 2004	Tai Po Water Treatment Works
17 Apr 2004	Infrastructure Development in Macau - The Dome and the New Bridge
24 Apr 2004	Rehabilitation of Tai Lam Chung Catch Water
8 May 2004	Bioremediation Works at Shing Mun River
15 May 2004	Hong Kong - Shenzhen Western Corridor

Reports from Divisions and Other Committees

Control, Automation & Instrumentation Division

The Control, Automation & Instrumentation (CA) Division was very active in the 2003/2004 Session. Apart from attending scheduled monthly meetings, Committee Members and helpers organised/co-organised and supported over 20 learned society activities including technical visits, seminars, technical meetings and symposia. A wide spectrum of subjects was covered and the activities were all well attended by members.



Ir Angus H W Cheung

The Annual Symposium of the Division was held on 20 April 2004 and the theme was "The Challenge faced by CAI Engineers in Aviation and Engine Applications". This was the first time the Division had organised a symposium on topics related to the subject of aviation. The Symposium attracted many delegates from both the academic and industrial sectors who share their valuable opinions.

In order to better address the diverse interests and needs of our members, five specialised groups were formally established in this Session. They were Aeronautics and Avionics Group, Automation and Control Group, Building Automation Group, Instrumentation Group, and Quality & Management Group.

The Division continued to maintain close links with the Institution of Electrical Engineers (IEE), China Association of Automation (CAA), Macau Institution of Engineers and the International Federation of Automatic Control (IFAC). The confirmation of mutual recognition between the Institute of Measurement and Control and the Control, Automation and Instrumentation Discipline of the HKIE, will result in closer co-operation between the two parties in delivering more learned society activities to members in the future.



Annual Dinner of the Control, Automation & Instrumentation Division

Technical Meetings/Seminars

Date	Title	Speaker(s)/ Remarks
27 Sep 2003	LPG Industry into the Transportation Sector	Jointly organised with YMC and ITS-HK
7 Nov 2003	The Public Interest in Reducing Road Opening and Safer Excavation by using a GIS-based Utility Information Centre	CHENG Hon Kwan John SHI Edward LAW Jointly organised with UTI and AMC
27 Nov 2003	Aviation Development and Prospect of Aircraft Maintenance Engineering in Asia	Angus CHEUNG Jointly organised with IVE, MC Division and CIEHK
8 Dec 2004	Building Automation - Open Protocol (BACnet)	Raymond RAE Douglas CHAN Jointly organised with ASHRAE-HK
6 Feb 2004	Sewer Telecommunications Access by Robot (STAR) Technology	Jointly organised with CA-Botics
24 Feb 2004	Public Interest in Reducing Road Opening and Safer Excavation and Slope Maintenance by Using a GIS-based Utility Information Centre	CHENG Hon Kwan John SHI Edward LAW Zico KWOK Eugene TAM Jointly organised with AMC, CISMA, UTI and PolyU Industrial Centre
26 Feb 2004	Quality & Management Series I - Managing Energy with Modern Revenue Meter System	Ranjith PERERA
9 Mar 2004	Quality & Management Series II - Quality Management	Louis LOCK Richard YEUNG
23 Mar 2004	Quality & Management Series III - Code-controlled Learning	C C LEE
20 Apr 2004	CAI Symposium 2004 - The Challenge Faced by CAI Engineers in Aviation and Engine Applications	Peter K N LOK Angel LAU Keven BAINES W LAM K Y FUNG C K LIU K Y CHUM
21 May 2004	Safety & Engineering - the Professionalism	K L CHOW Jointly organised with CISA, HKIUS, UTI and SSG
8-11 Jun 2004	Railway Engineering	Jointly organised with CUHK, IEE-HK, Railway Engineering Specialised Group, CA Division and SSG
15 Jun 2004	The Use of Technology and Information in Facility Management	Jointly organised with IVE (MH)

Technical Visits

Date	Title
20 Sep 2003	CLP Power System Control Centre
18 Oct 2003	YTONG Precast Concrete Fabrication Factory
25 Oct 2003	MTR Tseung Kwan O Line
13 Dec 2003 & 10 Jan 2004	Hong Kong Island Area Traffic Control Centre
8 May 2004	Visit to Smart ID Card Centre
22 May 2004	Utility Information Centre at Cyberport

Electrical Division

The 2003/2004 Session was a very eventful year for the Electrical Division. The Division Committee held ten meetings to discuss and plan local and overseas activities for members.

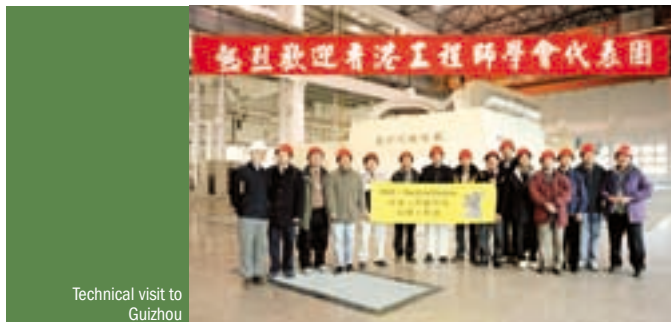
The International Conference on Electrical Engineering (ICEE) 2003 was hosted by the HKIE from 6 to 10 July 2003 and was well attended by over 250 delegates. The Division gave full support to the Institution in the organisation of this international event. It was the first international engineering conference to take place in the wake of SARS. The Conference was very well supported by Hong Kong delegates and other ICEE member countries including the Mainland, Korea and Japan.



Ir Joseph C M Leung

The theme of the 21st Annual Symposium was "A World Class City - An Electrical Engineering Perspective". There were a total of nine papers presented at the Symposium held on 23 October 2003 and over 300 delegates shared their views on various issues.

In this Session, 11 technical talks and eight technical visits were arranged. Other events organised included the Mainland visits to Guizhou Power Bureau and the New Anshun coal-fired generation plant in November 2003. The Overseas Technical Visit Team toured Europe from 2 to 13 August 2003. The itinerary included visiting testing/manufacturing facilities and world-class installations such as KEMA Testing Lab (Amsterdam), Amsterdam Arena Stadium (arranged by Philips Lighting HK), ABB Asea Brown Boveri Ltd (Italy), RC (Italy) and MGE (France).



Technical visit to Guizhou

The promotion of membership covered the tertiary institutions including the University of Hong Kong, the Hong Kong Polytechnic University and the Hong Kong Institute of Vocational Education (Haking Wong) & (Tsing Yi). The final assessment of the secondary school competition on "Wise Use of Energy - Today and Tomorrow" was held in June and the prize presentation would be held on 16 July 2004, followed by a study trip to Singapore in August 2004.

With the dedicated support offered by the Division members, we are confident that the Division will continue to grow, excel, and extend our care to meet the aspirations of members.

Technical Meetings/Seminars

Date	Title	Speaker(s)/Remarks
18 Nov 2003	Symposium on Hydrogen Infrastructure Technology for Energy and Fuel Applications	-
24 Nov 2003	Green Approach to Electrical Transmission Substation Design and Implementation	F C CHAN
12 Dec 2003	Power System in Security	F WU
13 Feb 2004	New Code of Practice (2003) in Wiring Regulations	Y M CHAN W Y HO
20 Feb 2004	Workshop on System Solutions for Harmonic and EMF/EMI/EMC	Kam S YANG
5-8 Apr 2004	DRPT2004 International Conference	-
8 Apr 2004	Tutorial on Power Utility Deregulation	L L LAI
22 Apr 2004	Wireless Instrument Networks - Design and Applications	H EREN
26 Apr 2004	Technical Issues of XLPE Cables & Colour Codings of LV Cables	A D FALCONER
5 May 2004	Strategies for Developing High-value Added Industry in HK	Victor LI
17 Jun 2004	Blackout Incidents in North America and Europe in 2003	H K WONG

Technical Visits

Date	Title
6 Sep 2003	Sewage Treatment Work - Stonecutter Islands
18 Oct 2003	CLP Power Electrical Workshop
13 Dec 2003	International Finance Centre Two
31 Jan 2004	New Police Headquarters Phase III
13 Mar 2004	HEC Tamar 275kV/132kV Switching Station and Zone Substation
17 Apr 2004	KCRC Pat Heung Maintenance Centre (PMC)
29 May 2004	Hong Kong Science Park

Reports from Divisions and Other Committees

Electronics Division

The electronics industry occupies a fast growing sector of the economy. It changes life-style and enhances the way society operates. In a rapidly changing world, engineers need the capability, strength, vision and commitment to meet the challenges offered by change. The Electronics Division, an elite group of people drawn from various organisations, has committed to provide a quality service and to offer professional perspective to its members.

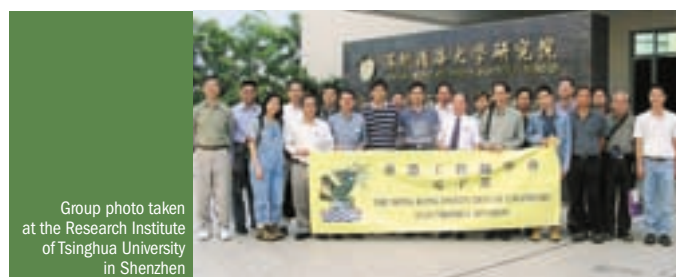


Ir Dr Li Chi-kwong

The 2003/2004 Session was a memorable, challenging, and rewarding year for the Division and its Committee in terms of the level of support offered to the industry and its academic circles. This, in turn, helped and strengthened the competitiveness of Hong Kong's electronics industry. A wide range of meetings, seminars, visits and various forums were organised to look at issues such as electro-payload, wireless and IP communication, automation technology and integrated circuit design.

By actively promoting new ideas, expressing concerns and enhancing capabilities, the Division worked alongside local associations such as the Internet & Telecom Association of Hong Kong, Hong Kong Electronic Industries Association, local universities and government departments. This helps build strong and coherent relationships and ultimately an industry of great depth.

The integrated circuits (IC) industry development is another great challenge. With the grant obtained under the Professional Service Development Assistance Scheme, the Division will continue to organise competency-building programmes to enable engineers to join the IC design and its related professions. We will keep on promoting the integrated circuit industry in Hong Kong with the collaboration of the Hong Kong Science and Technology Park Corporation, Hong Kong Productivity Council, the IT Division, and different IC developers.



Group photo taken at the Research Institute of Tsinghua University in Shenzhen

Technical Meetings/Seminars

Date	Title	Speaker(s)/ Remarks
30 Oct 2003	Call Centre Management Symposium & 4th Annual Call Centre Awards Presentation Ceremony 2003	Sidney YUEN Tony WONG NANG Xin Sheng Jolly WONG
8 Nov 2003	Fabless Design - Challenges & Opportunities	Prof FRANCA, Prof MIN PUN Kong Pang CHAN Cheong Fat Oliver CHOY Felix WONG
17-18 Nov 2003	Information Security Summit 2003	-
24 Nov 2003	Electro Optics Payload Technology	Adrian LIEW
1 Jan 2004	Financing Investment Strategy in China Projects	Thomas PANG
5 Jan 2004	Network Coding Theory	Raymond YEUNG
12 Jan 2004	HKIE: Engineering Community with Reference to HKSTP Technology Companies	C K LI
9 Feb 2004	IP Communication	David S F CHAN
23 Feb 2004	Wireless LANs, Current Status and Future Potentials	T S NG
19 Apr 2004	Telecom Regulation: Why and How?	M H AU
23 Apr 2004	Automation Technology: from Wired to Wireless	K F TSANG

Technical Visits

Date	Title
25 Oct 2003	Cable TV Tower
10 Jan 2004	Two International Finance Centre
15 May 2004	Wong's Kong King Technology Park (WKKT) and Research Institute of Tsinghua University (RITS) in Shenzhen

Environmental Division

In the 2003/2004 Session, the Division organised a wide variety of technical meetings and visits to enhance the professionalism of its members. The Division focused on the issues of contaminated land and sediments, sustainable construction, and management and recycling of wastes. A forum for Continuing Professional Development for all members of the HKIE was provided. Together with other technical talks and events in related areas which were all well received by members, the Division provided a wide range of activities to help promote professionalism.



Ir Prof Poon Chi-sun

The arrangements of the Divisional Committee Meetings were re-organised so that Committee Members were given more opportunities to discuss and exchange views on current environmental issues. We arranged discussions on SARS, the Central Reclamation, the Host Access Transformation Server projects and the long-termed water supply strategy for Hong Kong.

The Division actively participated in various boards and committees of the Institution. Members took part in various task forces, working committees organised by government departments, Legislative Council Panels and other professional organisations.



Technical visit to
Shanwei and Heyuan

Technical Meetings/Seminars

Date	Title	Speaker(s)/Remarks
18 Jul 2003	Introduction to Green Consumerism	-
	Co-disposal of Dewatered Sewage Sludge and Municipal Waste	Irene LO
26 Aug 2003	Green Slope Techniques	Norman MAK
10 Sep 2003	SARS and Building Services	H F CHAN
24 Sep 2003	Decommissioning Works of the Former Cheoy Lee Shipyard at Penny's Bay	Wilson W S PANG Matthew M C KO
17 Oct 2003	Green Mark Ecolabelling & Government Green Procurement	Ning YU
29 Oct 2003	Bioremediation of Sediment of Shing Mun River	TSUI Tack Sang
2-5 Nov 2003	POLMET 2003 - International Conference	-
10 Nov 2003	Technical Committee Meeting - Central Reclamation	CHEUNG Tai Yan
26 Nov - 3 Dec 2003	Capability-building Programme to Increase the Competitiveness of Hong Kong Professional Engineers for Entering the Mainland China Environmental Market	-
2 Dec 2003	Symposium on International Trends in Designing Noise Barriers	-
8 Dec 2003	One-day Workshop on Emission Trading	TSE Chiu Wan
15-17 Dec 2003	Second Symposium on Sustainable Development of Guangzhou, Hong Kong and Macau	-
6 Jan 2004	Recycling of Waste Rubber Tyres and C&D Waste as High Performance Lightweight Geo-material	K M LEE
13 Jan 2004	HATS Project	A KOENING
19 Feb 2004	Life-cycle Analysis for Sustainable Building Design in Hong Kong	Vincent CHENG
20 Feb 2004	Optimisation of Water Distribution Systems	Graeme DANDY
16 Mar 2004	Xingfeng MSW Landfill in Guangzhou	Bernard KEARSLEY-PRATT
19 Mar 2004	One-day Symposium on Advances in Thermal Waste Treatment Technologies	-
6 Apr 2004	The Role of EMSD in Enhancing Energy Efficiency in Hong Kong	Roger LAI
14 May 2004	Satellite Technology for Civil and Environmental Remote Sensing	Thomas LEE
21 Jun 2004	Use of C&D Waste and Waste Glass as Construction Materials	C S POON

Technical Visits

Date	Title
27 Sep 2003	Former Cheoy Lee Shipyard at Penny's Bay
15 & 19 Dec 2003	Shanghai Waste Management Facilities
27 & 28 Mar 2004	Shanwei and Heyuan

Gas & Energy Division



Ir Colin C L Chung

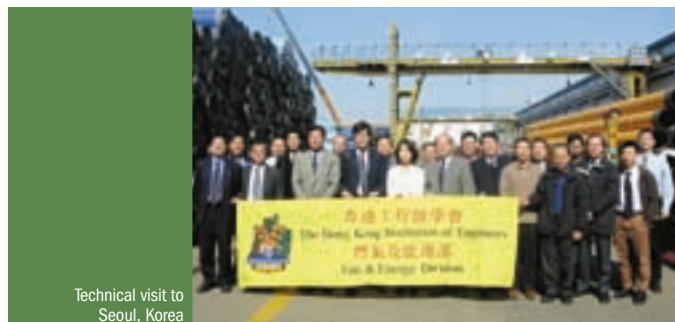
During the Session, the Committee organised ten technical talks and five local technical visits, two Mainland visits and jointly organised a technical visit to Korea with the Institution of Gas Engineers and Managers (IGEM). Apart from the technical talks and visits, the Division also organised a two-day symposium with the Electrical and Mechanical Services Department (EMSD) of the HKSAR. Some 400 local and overseas professionals and delegates participated in the symposium. The Division also co-organised the Symposium on Hydrogen Infrastructure Technology for Energy and Fuel Applications with the Electrical Division of the HKIE and the Department of Electrical Engineering of the Hong Kong Polytechnic University. By participating in all the activities organised by the Division, members should have gained more than 50 hours of Continuing Professional Development. The Committee also planned to organise an Energy Audit Training Course with the Energy Institute (Hong Kong Branch), Hong Kong Association of Energy Engineers (HKAAE), Building Services Operation and Maintenance Executives Society (BSOMES), Hong Kong Productivity Council (HKPC) and the Mechanical Engineering Department of the University of Hong Kong in September 2004.

The Committee participated in the Working Group on Code of Practice for Energy Audit organised by the EMSD, and had a nominated member as the reviewer for technical articles in *Hong Kong Engineer*. Members of the Committee were also nominated as the representatives of the HKIE to serve on the Appeal Tribunal Panel of Buildings Ordinance, Chapter 123. Comments were also made on EMSD's proposal to introduce a Voluntary Energy Efficiency Labelling Scheme for Gas Instantaneous Water Heaters.

The proposed merger of the Gas & Energy Division with the Nuclear Division was halted due to differences in opinion on the conditions imposed in the working papers. However, the task force studying the issue is expected to resume discussions in the coming Session.

Special thanks have to be given to all Committee Members and those who contributed their valuable time and effort to enable the Division to organise so many eventful activities and have another successful year.

Reports from Divisions and Other Committees



Technical visit to Seoul, Korea

Technical Meetings/Seminars

Date	Title	Speaker(s)/Remarks
2 Jul 2003	Application of Heat Transfer for Energy Conversion in Machinery	K S FUNG P S KWAN
28 Jul 2003	Hong Kong Gas Industry - Into the Future	James KWAN
21 Aug 2003	Opportunities of Engineers in Mainland Gas Market	James KWAN
6 Nov 2003	Performance-based Building Energy Code	Welman LEUNG David LI
18 Nov 2003	Symposium on Hydrogen Infrastructure Technology for Energy and Fuel Applications	-
28 Jan 2004	Water Cooled Air-conditioning System in Hong Kong	P W LAM
10 Feb 2004	Hydrogen Generator	Leo SUNG
17 Feb 2004	Energy Efficiency Labelling Scheme in Hong Kong	H W TSENG
26-27 Feb 2004	Symposium on Safe & Efficient Use of Energy - The Challenges Ahead	-
23 Mar 2004	Renewable Energy Development in Hong Kong	Y F KWOK
28 Apr 2004	Energy Efficient Design for the New EMSD Headquarters	M Y CHAN
24 May 2004	Financial Appraisal for Energy Saving Strategies for AC System Adopting District Cooling System	Martin YIP

Technical Visits

Date	Title
2 Aug 2003	Building-integrated-photovoltaic (BIPV) Demonstration Project at Wanchai Tower
27 Sep 2003	LPG Industry into the Transportation Section
9-12 Oct 2003	Rice Husk Gasification/Power Generation Plant in Jiangxi
15 Nov 2003	Integration of Gas Fired Absorption Chiller to Existing Electric Conventional Chiller System
20 Dec 2003	Hong Kong Science Park
25-28 Mar 2004	Seoul, Korea
29 May 2004	Shanwei Wind Farm
19 Jun 2004	International Finance Centre Two

Geotechnical Division

The Geotechnical Division held its Annual Seminar on 14 May 2004. The theme of the Seminar was "Recent Advances in Geotechnical Engineering". It attracted over 350 people and 16 high quality technical papers were received. Prof Fumio Tatsuoka, of the Tokyo University of Science and Vice President of the International Society of Soil Mechanics and Geotechnical Engineering for Asia Region, delivered a stimulating keynote lecture.



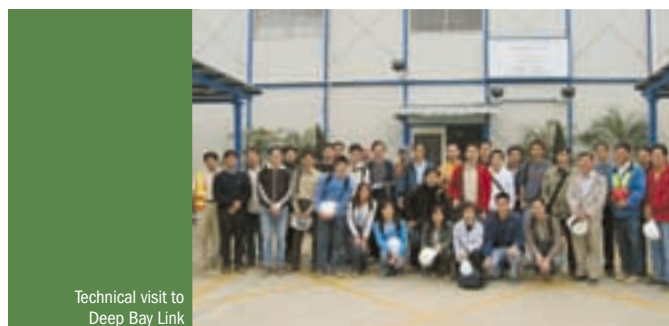
Ir Mak Lap-ming

Some highlights of the Division's technical meetings included the lecture on "Geology for Engineers" by Prof Peter Fookes, the one-day seminar on "Ground Treatment" and the presentation on "Terrain-based Mapping of Landslide Susceptibility Using a Geographical Information System: A Case History" by Prof C F Lee and Dr F C Dai. The 7th and 8th Mainland - Hong Kong Geotechnical Lecture Series by experts from the Mainland were also held.

A delegation of the Division participated in the 9th China National Conference on Soil Mechanics and Geotechnical Engineering held in October 2003. Ir L M Mak and Ir Dr Charles Ng were invited to deliver a report and a keynote paper respectively. The participation of the delegation represented a continuation of efforts to develop good relationships and to seek co-operation opportunities for colleagues and related institutions in the Mainland.

The 10th Annual Dinner took place on 26 March 2004 with the Secretary for Housing, Planning and Lands, Mr Michael Suen, JP, as the Guest of Honour. He briefed the audience of around 300 on sustainable development in Hong Kong. Ir L M Mak spoke on the challenges faced by geotechnical professionals.

The winner of this year's Fugro Prize was Miss Dora Nip of Ove Arup & Partners. The winning paper was entitled "Nonlinear Analysis of Laterally Loaded Large-diameter Bored Pile Groups". Book prizes and student prizes were also awarded.



Technical visit to Deep Bay Link

Technical Meetings/Seminars

Date	Title	Speaker(s)/Remarks
27 Jun 2003	Hong Kong-Mainland China Geotechnical Lecture Series No 7 - "Some Case Histories of Geotechnical Engineering in Shanghai" & "SWS Geophysical Technology Used Slope Exploration"	GAO Dazhaio LIU Yunzhen
10 Jul 2003	Use and Abuse of Experts	Teresa CHENG
4 Sept 2003	Understanding and Forecasting the Development of Progressive Failure in Natural Slopes	David N PETLEY Jointly organised with IMMM
17 Sept 2003	Terrain-based Mapping of Landslide Susceptibility Using a Geographical Information System: A Case Study	C F LEE F C DAI
25-28 Oct 2003	GDC Delegation to the 9th China National Conference on Soil Mechanics & Geotechnical Engineering	-
31 Oct 2003	Geopier Soil Reinforcement - the Intermediate Foundation System	Nathaniel FOX
22 Nov 2003	Senior Executives Seminar on GIS Applications in Geotechnical Engineering	Jointly organised with ESRI
26 Nov 2003	Acceptance Criteria for Driven Piles	Julian SEIDEL
27 Nov 2003	Geology for Engineers: The Geological Model, Prediction and Performance	Peter FOOKES Jointly organised with IMMM-HK, AGS (HK), GSHK, SICC-HKCA and HKRGGSL
3 Dec 2003	SSTRB - Sharing Meeting	-
8-10 Dec 2003	International Conference on Slope Engineering	Organised by HKU and supported by GE Division
11 Dec 2003	Using Physical Model Tests to Improve Geotechnical Practice	Malcolm BOLTON Jointly organised with CityU
17 Dec 2003	Hong Kong - Mainland China Geotechnical Lecture Series No 8 - "Current National Standards and Guides in Geotechnical Engineering and Related Professions" & "Discussions on National Examinations for Registration of Geotechnical Engineers in Mainland China"	BIAN Zhaoqing ZHANG Sumin
16 Jan 2004	Cut & Cover Tunnel of the KCRC Tsim Sha Tsui Extension	Patrick NG S S KONG
11 Feb 2004	Fugro Prize Competition	-
17 Mar 2004	Research & Development Forum	-
26 Mar 2004	Annual Dinner	-
17 Apr 2004	One-day Seminar on Ground Treatment	Jointly organised with HKGES and CityU
27 Apr 2004	Design of Pre-stressed Soil Nails that Avoids Active Zone Debonding	Tony BARLEY
4 May 2004	3-D Non-linear Staged Analyses	Brian SIMPSON
7 May 2004	The Three Gorges Project - Overview and Update	C F LEE
14 May 2004	Geotechnical Division Annual Seminar - Recent Advances in Geotechnical Engineering	F TATSUOKA
8 Jun 2004	A Large Underwater Embankment on Improved Soft Dredged Sludge	Van IMPE
15 Jun 2004	Recent Developments in Natural Terrain Studies	H N WONG

Technical Visits

Date	Title
20 Sep 2003	MTR Choi Hung Park & Ride Development
20 Sep & 15 Oct 2003	Kowloon Landmark Tower/Sharing Meeting
8 Nov & 13 Dec 2003	Deep Bay Link/Briefing Meeting
10 Jan 2004	Deep Bay Link/Site Visit No 1
7 & 14 Feb 2004	Castle Peak Road Improvement Works
21 Feb 2004	Deep Bay Link/Sharing Meeting
6 Mar 2004	Route 9, Shatin Heights Tunnel and Approaches
20 Mar 2004	Road T3 and Associated Road Works

Information Technology Division

The Information Technology (IT) Division continued to play an active role in the promotion of IT and related applications to Hong Kong's engineers and the community at large. As well as organising seminars and visits on a regular basis, "computer security issues" were identified as the central technical theme for seminar topics during the Session.

Collaboration was another priority issue. The Division worked with the Electronics Division in the implementation of a PSDAS project - Developing a Competency-building Programme to Enable Hong Kong Engineers to Join the IC Design and Related Professions. This was the Division's first ever PSDAS project and it will support the Government's initiative to promote Integrated Circuits (IC) Design activity in Hong Kong.



Ir Albert K L Chu

With the introduction of the Closer Economic Partnership Arrangement (CEPA), the Hong Kong IT industry sector has been very active in seeking opportunities to grow. The task force on Professional Qualification for IT Practitioners, which was represented by some 14 IT institutions and societies, met several times to finalise a framework for consultation.

A Memorandum of Understanding (MoU) was signed between the HKIE and the Hong Kong Computer Society (HKCS) in March 2004. This MoU will promote greater collaboration between the HKIE, in particular the IT Division, and the HKCS. Similar to last Session, and in the light of collaboration, the IT Division again joined with the British Computer Society (Hong Kong Section) to host the Annual Dinner in May.

Another notable first was the Community Service Project, jointly organised for the hearing impaired by the IT Division, the Young Members Committee and the Hong Kong Association for Computer Education. This project, called the IT Bridges: Connecting the Hearing Impaired Students to the World, enhances communication among hearing impaired students, their teachers and the community.

Reports from Divisions and Other Committees



Nine past and current chairmen attended the IT Division and BCS (HK Section) Joint Annual Dinner in May

Technical Meetings/Seminars

Date	Title	Speaker(s)/ Remarks
7 Sep 2003	International Symposium on Location-based Systems	Jointly organised with WTIA
15 Oct 2003	Press Conference on PSDAS Project	Spencer TAO
7 Nov 2003	Open Forum - The Public Interest in Reducing Road Opening, Safer Excavation and Better Slope Maintenance by Using a GIS-based Utility Information Centre	-
14 Nov 2003	Launching of IC Design Mentoring Programme	K L CHU
28 Nov 2003	Security Series 1: Seminar on the Requirement to Become an Information Security Professional	Chester SOONG
2 Jan 2004	Financing Investment Strategy in China Projects	Thomas PANG
13 Feb 2004	Convergent Billing, Ready for 3G	Patrick TSANG
2 Mar 2004	Introduction to Capability Maturity Model Integration (CMMI) - Staged Representation	Mukui MADAN
21-26 Mar 2004	APECTEL29 - Incident Response and Forensics Workshop	K T YUNG
6-7 Apr 2004	Software Peer Reviews	Richard E BARBOUR
16 Apr 2004	Security Series 2: Seminar on IT Security Trends - Identity Management and Digital Rights Management	Ernest WONG
7 May 2004	Security Series 3: Seminar on Ethical Hacking and Countermeasures	-
14-15 May 2004	Global ICT Summit	-
19 May 2004	Security Series 4: Seminar on IT Governance: the People Element	Chester SOONG
2-4 June 2004	Information Security: From Detection to Prevention	Alan WONG

Technical Visits

Date	Title
13 Dec 2003	Artesyn Technology (Zhongshan Factory)
17 Jan 2004	Macau University of Science & Technology and Macau Productivity Centre

Manufacturing & Industrial Division



Ir Dr Stephen S F Lee

The Manufacturing & Industrial (MI) Division had a busy year initiating and organising a number of activities for its members. These activities provided a platform for members and students to exchange their experiences and ideas, and learn about new developments in the fields of manufacturing and industrial engineering.

For the second consecutive year, the MI Division continued to offer ten scholarships for full-time students at higher education institutions nominated by the manufacturing and industrial engineering related departments of local universities and the Hong Kong Institutes of Vocational Education. Each of these scholarships was valued at HK\$5,000. The scholarships were awarded at the Manufacturing and Industrial Division and the Institute of Industrial Engineers (MI-IIE) Joint Annual Dinner on 9 March 2004.

The Division obtained support from the Government's PSDAS on the project entitled "Young Manufacturing and Industrial Engineers Career Development Program in Pearl River Delta". More than 60 young manufacturing and industrial engineers have participated in the programme.

The Division continued to organise the Young Engineers Project (YEP). The YEP! 2004 Organising Committee, composed of student representatives from local tertiary institutions in the manufacturing and industrial discipline, conducted a series of seminars and company visits with the help of mentors from the MI Division Committee. A total of 45 students participated in the project.

The Division also sponsored the video-conference in the Photonic Conference at the Opening Ceremony of the Photonic Center at the Science and Technology Park on 2 December 2003 as well as the Professional Development Day on 20 March 2004, which was jointly organised by professional bodies and educational institutions. Other activities supported by the Division included 2003-2004 Design & Innovation Competition of Hong Kong Schools; 2004 International Conference on E-commerce Engineering; Seminar on "Biometrics Applications" organised by Specialised Section in Manufacturing and Systems Engineering, IEE Hong Kong.



Group photo taken at the Dissemination Seminar of Young Manufacturing & Industrial Engineers Career Development Programme in Pearl River Delta

Technical Meetings/Seminars

Date	Title	Speaker(s)/Remarks
18 Sep 2003	Opening Ceremony and Recruitment Day of the Young Manufacturing & Industrial Engineers Career Development Programme in Pearl River Delta (PSDAS Project)	-
11 Oct 2003	Training Workshop to Enhance the Competitive Edge of Enterprises - Leadership and Communication (PSDAS Project)	Stephen LEE
12 Oct 2003	Training Workshop to Enhance the Competitive Edge of Enterprises - Introduction to Six Sigma (PSDAS Project)	Fugee TSUNG H K LEUNG
18 Oct 2003	Training Workshop to Enhance the Competitive Edge of Enterprises - Logistics Management (PSDAS Project)	Victor LO Benjamin YEN
19 Oct 2003	Training Workshop to Enhance the Competitive Edge of Enterprises - Project Management (PSDAS Project)	Aaron TONG
25 Oct 2003	Training Workshop to Enhance the Competitive Edge of Enterprises - Lean Practice for Productivity Management (PSDAS Project)	Ricky YEUNG
15 & 16 Nov 2003	珠三角工業環境及經濟發展專題講座 (PSDAS Project)	-
20 Dec 2003	Biometrics Applications	Organised by Specialised Section in Manufacturing and Systems Engineering, IEE-HK, supported by MI Division
17 Jan 2004	Opening Ceremony of YEP!2004	-
14 Feb 2004	E-manufacturing and Effectiveness Efficiency: How to Achieve It Via the Essence of IE (YEP!2004 project)	Stephen AU Ricky YEUNG
9 Mar 2004	Annual Dinner	Jointly organised with the IIE-HK
13 Mar 2004	IE in Fuji Xerox and IE in Towngas	Simon LEE Peter CHAK
20 Mar 2004	Professional Development Day	Jointly organised with the IEE-HK, SSMS, the University of Warwick and Manufacturing Alumni Association of PolyU
17 Apr 2004	Closing Ceremony of YEP!2004	-
24 Apr 2004	Dissemination Seminar of the Young Manufacturing & Industrial Engineers Career Development Programme in Pearl River Delta (PSDAS Project)	T C LEE W K LO Virginia CHOI K B CHAN

Technical Visits

Date	Title
1 Nov, 6 Dec 2003 & 1 Jan 2004	3-day Benchmarking Company Tour in Pearl River Delta (PSDAS project)
29 Nov, 13 Dec 2003 & 10 Jan 2004	
13 Dec 2003	IT Factory in Zhongshan
31 Jan 2004	MTR Corporation (YEP!2004 project)
28 Feb 2004	Hong Kong Productivity Council (YEP!2004 project)
27 Mar 2004	UPS (YEP!2004 project)
9 & 10 Apr 2004	Firm Visits in the Mainland (YEP!2004 project)

Materials Division



Ir Prof Haydn H D Chen

Most members recognise the Materials Division as a small but active Division producing exciting and technically enriching activities and events for all members of the HKIE. The 2003/2004 Session was another action-packed year as evidenced by many exciting and well-attended programmes. These programmes included more than 13 technical seminars, two workshops, two plant trips and a conference. A group of programmes designed and run by the Division in conjunction with the Hong Kong Productivity Council represented the main core of activities. These programmes were in part supported by a grant from the PSDAS. The theme of these programmes was "Materials Solutions for a Sustainable Future of Hong Kong."

The Division sponsored or co-sponsored several unique programmes including the "Best Paper Award" and the "Straw Competition" run by the Department of Physics and Materials Science of the City University of Hong Kong. The Division also had a "membership-drive" forum to attract new members. All were well received and will become perennial events.

The success of the Division is attributed to the enthusiasm and energy instilled by all Members of the Materials Division Committee. This is a very devoted and harmonious group that met regularly each month to draw up programmes and participate in activities.



Technical visit to China Southern Glass, Shenzhen

Reports from Divisions and Other Committees

Technical Meetings/Seminars

Date	Title	Speaker(s)/Remarks
25 Jul 2003	Applications of Anti-microbial Nanomaterials	CHE Chi Ming Ricky CHAN YEUNG King Lun YU Chai Mei CHAN Sai Chung SHI Li Yi Theobald CHAN
22 Aug 2003	Construction Materials Product Certification	Eddy ROBIN Bala SUBRAMANIAM WANG He Nelson LAW Mike PEARSON Ben BOWSHER Patrick CHAN C W TAN Geoff DEAKIN Paul BAILEY Gary COLLINS C K CHEUNG
16 Sep 2003	ISO9000: Certification or Effectiveness: Introduction to System Effectiveness	Howie NG
17-18 Oct 2003	Embedded Passives Technology and Its Market Opportunities	Richard SNOGREN
6 Oct 2003	Manufacturing and Surface Finishing Technology of NiTi Shape Memory and Ti Alloys	Jonathan CHUNG James KWAN Rosaline KWOK
10 Nov 2003	PVD as an Advanced Surface Finishing Technology in Up-keeping the Competitiveness of Local Manufacturers	Ricky TSUI Louis YUNG
3 Dec 2003	Introduction of European Technical Approval (ETA)	Peter PUSILL- WACHTSMUTH
5 Dec 2003	Nano-composites Materials in Automobile Parts, Toys, and Plastics Industries	-
10 Dec 2003	Panel Discussion: Premature Building Components Deterioration	W T WONG Eric LIM Daniel BROWN T K CHEUNG Peter MA
13 Dec 2003	Construction Materials Testing	Billy WONG K K CHOY W H MOK Nigel CHEUNG James LAU C K CHEUNG Robin WONG
15 Dec 2003	抗變色硬銀合金及鍍層技術綜合研討會	張應坤 莊龍三 諸曉平 劉碧霞
20-24 Dec 2003	2003 Workshop on New Materials Development Trend and Future	Organised by Chinese MRS and HKUST and supported by MT Division
10 Jan 2004	IR Inspection of Buildings	BABU Z J LI
27 Jan 2004	Nanoelectronics	-
16 Feb 2004	Materials Division Promotion	-
23-25 Feb 2004	International Conference on Industrial Applications of Nanomaterials and Advanced Composites	Organised by FMM & HKPC and co-organised by MT Division
2 Mar 2004	Best Paper on Materials 2003 - Oral Presentation	-
13 Mar 2004	Alternative Construction - Pre-casting and the Use of Lightweight Aggregate Concrete	Tommy LO
23 Mar 2004	The Use of Eddy Current as a Non-destructive Testing Technique for Assessing Cracks and Defects in Welds Covered by Paint Coating	K M WONG
4 May 2004	AGM & Annual Dinner	-

Technical Visits/Other Activities

Date	Title
14 Feb 2004	Ever Success Construction
28 Feb 2004	China Southern Glass cum Forum on Production and Quality Control of Architectural Glasses
18 Apr 2004	Annual Straw Competition



Ir Louis K S Szeto

Mechanical, Marine, Naval Architecture & Chemical Division

The 2003/2004 Session was full of challenges. The Mechanical, Marine, Naval Architecture & Chemical (MC) Division experienced the reduction of annual divisional budgets. However, the MC Division managed to complete all targeted functions and events with the allocated funds. With team effort, the Division successfully coordinated with other divisions of the HKIE to hold technical talks jointly and signed Co-operation Memoranda with Mainland institutions in related engineering. Furthermore, engineers of the Chemical Discipline were actively involved in the functions of the MC Division. The Division also celebrated its 25th anniversary this Session.

A half-day brainstorming session was held in August 2003 at Tai Po CLP Operation and Control Center to review and study the vision and mission of the Division. The second brainstorming session to follow-up and confirm future direction was also held in November 2003. Separate teams were assigned to work on different aspects of our mission.

In May, the Division signed Co-operation Memoranda with the Shanghai Society of Naval Architects & Marine Engineers, the Shenzhen Society of Naval Architects & Marine Engineers and the Guangdong Society of Naval Architects & Marine Engineers. The Co-operation Memoranda to be signed with the Guangdong Society of Mechanical Engineers and the Dalian Foreign Science and Technology Center are being prepared.

The Division also jointly organised events and technical visits with the Institution of Mechanical Engineers (IMechE) (Hong Kong Branch), American Society of Mechanical Engineers (ASME) (Hong Kong Section), Hong Kong Joint Branch of the Royal Institution of Naval Architects (RINA), the Institute of Marine Engineering, Science and Technology (IMarEST) and Hong Kong Institution of Marine Technology. Other activities supported by the Division included promotion talks for students in universities and the Hong Kong Institutes of Vocational Education jointly organised by the Young Engineers Affair Committee of the Division, the Young Members Committee (YMC) and Associate Members Committee (AMC), and functions organised by other divisions/committees.



Group photo at the first Pan Asian Association of Maritime Engineering Societies (PAAMES)

Technical Meetings/Seminars

Date	Title	Speaker(s)/Remarks
12 July 2003	Briefing Session on PMP Examination Preparation Course	Kelvin CHUI
22 Sep 2003	2003 Hong Kong - Macau - Shenzhen on Shipping Technical Exchange	-
11 Nov 2003	Managing Chemical Safety at Work in Hong Kong - Chemical Safety Programme	T T KAM
15 Nov 2003	Young Engineering Forum - China Working Experience Sharing for Young Engineers	-
1 & 5 Dec 2003	2003 Shanghai Martec Exhibition & Conference and 1st PAAMES Council Meeting	-
2 & 3 Dec 2003	One-day Symposium on International Trends in Designing Noise Barriers	-
17 Jan 2004	Optimal Flow Architecture from Engineering to Nature	Adrian BEGNA
25 Feb 2004	Tunnel Ventilation and Life Safety Engineering	Wilson CHAN
4 Mar 2004	One-day Symposium on Advance Technology for Health Care and Hygiene Control	-
24 Apr 2004	Enneagram and Interpersonal Relationship	Dorothy WONG

Technical Visits/Other Activities

Date	Title
20-23 Aug 2003	Overseas Delegation to Japan - Latest Transportation Technology in Japan
23 Aug 2003	HEC Lamma Power Station
30 Aug 2003	Route 3 Country Park Section
20 Sep 2003	Cathy Pacific Flight Simulator Hong Kong Oxygen & Acetylene Co - Tai Po Production Depot
27 Sep 2003	Super Terminal 1 at CLK
11 Oct 2003	Green Island Cement Production Facility
17 Oct 2003	Beef Tasting cum Social Gathering
8 Nov 2003	Marine Police Regional HQ
29 Nov 2003	Tai Po Water Treatment Works
6 Dec 2003	South East New Territories (SENT) Landfill Bus Body Construction Depot of KMB
17 Jan 2004	Dunwell Waste Oil Recycling Facility
26 Mar 2004	China Visit to Dalian, PRC - Shipyard, Maritime University and Petroleum Facilities Enviropace - Chemical Waste Treatment Centre
17 Apr 2004	Black Point Power Station
22 May 2004	Boat Trip and Seeking Chinese White Dolphin
29 May 2004	Hong Kong Aero Engine Services Limited (HAESL) at Tseung Kwan O
19 Jun 2004	Aviation Fuel Tank Farm at Sha Chau off CLP International Airport

Nuclear Division

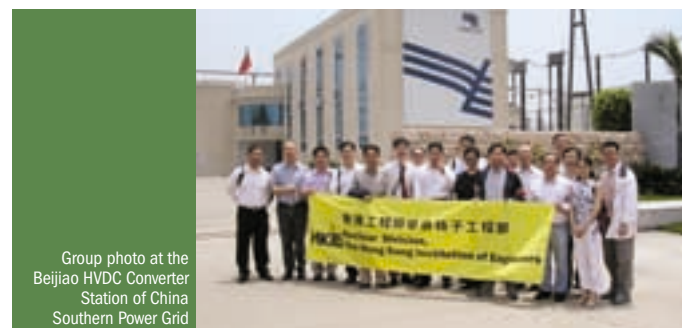


Ir Kenneth S K She

The 2003/2004 Session is an important session for the Nuclear Division. The Division continued to organise the popular technical visit to Guangdong Nuclear Power Station in November 2003. A technical visit to the System Control Centre and High Voltage Direct Current (HVDC) Converter Station in Southern Power Grid was held in April 2004. The visits fostered technical exchanges with Mainland institutions and enlightened members with the latest technology and developments in these fields. In addition to the technical visits, four seminars were organised with distinguished speakers from Hong Kong, the Mainland and overseas.

In this Session, the Division actively entered into discussions with the Gas & Energy Division to study a merger proposal for the two Divisions and the establishment of the "Energy" Discipline. A Joint Task Force was set up and a merger proposal prepared for the endorsement of the respective Division Committees. The merger proposal was endorsed by the Nuclear Division Committee but rejected by the Gas and Energy Division Committee. It is regrettable that the two Divisions could not reach a consensus on the conditions of the merger. The Nuclear Division Committee considers that it is important to maintain the identity of all interested parties, ie Gas, Energy and Nuclear engineering after the merger. Nevertheless, the Committee will continue to review the way forward and revisit any possibility of a merger in due course. Members will be kept informed of developments and encouraged to offer views and comments on this issue.

The Nuclear Division is committed to organising a wide range of activities to serve its members and to maintain the established links with the Mainland and overseas institutions to promote a greater understanding of nuclear technology.



Group photo at the Beijiao HVDC Converter Station of China Southern Power Grid

Technical Meetings/Seminars

Date	Title	Speaker(s)/Remarks
6 Jan 2004	The Nano-science of Fusion Materials	S L DUDAREV
27 Feb 2004	Robotics and Automation for Some High-risk Maintenance Services	S K TSO
30 Mar 2004	Shearography, a Novel NDT Technique and Its Role in Making Our Air Journey Safe	Michael Y Y HUNG
7 May 2004	Utilisation of Nuclear Energy in China	ZHAO Fuyu

Reports from Divisions and Other Committees

Technical Visits

Date	Title
15 Nov 2003	Guangdong Nuclear Power Station, Daya Bay, Shenzhen
30 Apr 2004	Technical Visit to Southern Power Grid HVDC Converter Station and System Control Centre in Guangzhou

Safety Specialist Group

The 2003/2004 Session was both a challenging and fruitful year for the Safety Specialist Group (SSG). The Group was established in 1995 to promote the safety awareness of engineers, and to uphold and improve safety standards in engineering practice through the promotion, development and dissemination of safety related information and knowledge. With a steadily growing awareness of the importance of safety issues, the membership of the SSG has increased accordingly. We have worked to introduce our activities to HKIE members and to establish contacts with professionals in the industries.



Ir Nelson K C Yu

During this Session, the Group maintained close links with safety and health organisations both within Hong Kong and the Asia Pacific Region. Close working relationships with the Labour Department, Construction Industry Training Authority, Occupational Safety & Health Council, educational institutions and other member organisations of the Joint Liaison Group of Occupational Safety & Health continued to strengthen. Members also participated in conferences and technical visits to Nanjing, Guangzhou and Korea.

SSG organised 12 seminars/conferences and four technical visits during the Session and received overwhelming support from fellow members. The SSG homepage was constantly updated with safety news, information and announcements. Articles of events and activities were also published in *Hong Kong Engineer*.

SSG will continue to organise safety related seminars, conferences and technical activities and, with the support of fellow members, it will play a major role in promoting safety and health issues in engineering professions and the community.

Technical Meetings/Seminars

Date	Title	Speaker(s)/ Remarks
3 Sep 2003	Engineering Aspects of Terrorism Defense	James GAY Bill South WOOD Danny MA Vincent HO Dominic BRITAIN
28-30 Oct 2003	2003 China (Nanjing) 1st International Conference on City & Industrial Security & Exposition of Safety Equipment	Organised by Jiangsu Association of Science & Technology
31 Oct 2003	The Philosophy, the Law & Implementation of General Duties on Safety at Work in Hong Kong	Y Y WONG
13-14 Nov 2003	System Safety in Transportation	Organised by Korea Rail Road Research Institute
20 Nov 2003	The Challenge of Safety Practitioners in the New Era	Organised by JLGOSH
28 Nov 2003	Total Solution on Safer Operations on Electrical Installation	Y M POON
10 Dec 2003	Design, Construction & Operation of the To Kau Wan Soil Decontamination Plant at Penny's Bay	Jointly organised by AMC, MC Division and SSG
13 Dec 2003	Workshop on Crisis Management and Insurance Claims	Sukhbir BARTHLEY Pierre T T LEONG
19 Dec 2003	SARS and Its Occupational Safety & Health Problems - View of a Safety Practitioner	Y K KAM
20 Feb 2004	Safety - a Science or an Art	Michael LEUNG
4 Mar 2004	Train Crashed - What Went Wrong	Arnold DIX
12 Mar 2004	Implementing Occupational Health & Safety Management System in Engineering Field	Andrew CHAN
2 Apr 2004	How to Conduct a Safety Training	Alex TSE
21 May 2004	Safety and Engineering - the Professionalism	Jointly organised with the CA Division, CISA, JLGOSH, CITA, HKIUS and UTI
28 May 2004	Overview of Occupational Safety and Health in Hong Kong	S H TSO

Technical Visits

Date	Title
18 Oct 2003	Kau Shat Wan Explosives Depot
14 Feb 2004	COSCO - HIT Container Terminal
20 Mar 2004	Route 9 (renamed as Route 8) Ngong Shuen Chau Viaduct



Group Photo at the Nanjing 1st International Conference in City and Industrial Security

Structural Division

In this Session, the Structural Division and the Institution of Structural Engineers (IStructE) (Hong Kong Division) organised many activities for the members of both institutions. To equip candidates for the Chartered Membership Examination with a positive mindset, Mr Stephen W Garrity, Vice-Chairman of the Examination Panel and a member of the Professional Review Panel of the IStructE presented a talk titled "Professional Review and Changes to the Chartered Membership Examination" on 18 September 2003. A technical meeting titled "Examination Techniques for the Chartered Membership (Part 3) Examination" was held on 25 February 2004. Speakers including Ir Fred S H Ng, Ir H K Ng, Ir Dr James C W Lau and Ir Jacky B W Lo were invited to give presentations.



Ir Helen P J Kwan

The President of the IStructE, Prof David A Nethercot and the Chief Executive of the IStructE, Dr Keith Eaton, paid a Presidential Visit to Hong Kong from 12 to 17 April 2004. They also attended the Chartered Membership Examination as observers on 16 April 2004.

The Annual Visit was arranged on 22 to 27 April 2004 to Hangzhou and Shanghai. Twelve members of the Structural Division and IStructE visited the Zhejiang University School of Civil Engineering, the Shanghai Jiao Tong University and the IStructE China Branch in Shanghai. They also explored the Qiantang River Bridge IV, the Shanghai International Circuit, the site operation of the largest Tunnel Boring Machine (TBM) in Shanghai and various construction companies.

In addition, our Committee Members and senior members also served on various boards and committees including the Learned Society Board, Structural Discipline Advisory Panel, Authorised Person/Registered Structural Engineer Committee, Training Committee, Continuing Professional Development Committee, and Public Relations Committee of the HKIE, as well as the Construction Industry Training Authority and various code drafting and registration committees in government departments.



Annual Dinner of the Structural Division and the Institution of Structural Engineers (Hong Kong Division)

Technical Meetings/Seminars

Date	Title	Speaker(s)/Remarks
11 Sep 2003	Inelastic Design of Limited Ductile High-strength Reinforced Concrete Columns	H J PAM Johnny C M HO
18 Sep 2003	Professional Review and Changes to the Chartered Membership Examination	Steve GARRITY
23 Oct 2003	Design and Construction Features of the Cybercenter Roof, Cyberport, Pokfulam	Graeme Forrest BROWN
20 Nov 2003	Construction Monitoring and Control for Yamen Bridge	D J HAN C SU Jointly organised with HKU
15 Dec 2003	Design and Construction of Chater House	Paul TSANG
15 Jan 2004	Design and Construction of Sau Mau Ping Shopping Centre	Joseph MAK T M CHIU
18 Feb 2004	Quality Supervision of Foundation Work - Roles of Engineers and Construction Supervisors	James C W LAU Philip C T KWOK Jointly organised with AMC and YMC
25 Feb 2004	Examination Techniques for the IStructE Part 3 Examination	K S LAW H K NG James C W LAU Jacky B W LO
8 Mar 2004	Health Monitoring of the Confederation Bridge - the World's Longest Bridge over Salt Water	Moe CHEUNG
8 Apr 2004	Can a Structural Engineer Design Architecture?	Zofia RYBKOWSKI
13 Apr 2004	Presidential Address entitled "Developments in Steel-concrete Composite Construction"	James C W LAU Philip C T KWOK
20 May 2004	Design of Cold-formed Steel Structures	Ben YOUNG
11 Jun 2004	Annual Seminar: "New Perspectives in the Design and Construction of Foundation Structures"	-

Technical Visits

Date	Title
2 Aug 2003	Daido Pre-cast Concrete Factory at Tai Po
20 & 27 Sep 2003	Castle Peak Road Improvement between Area 2 and Ka Loon Tsuen
18 Oct 2003	YTONG Fabrication Factory

Reports from Divisions and Other Committees

◆ Young Members Committee

The Young Members Committee (YMC) had a fruitful year with over 70 events being organised. To improve our services to the Registered Young Members (RYM), the structure of YMC was reviewed and the number of working groups increased to 12 to better serve RYMs.



Ir Carl S K Li

In addition to popular seminars and visits, YMC also organised community services such as sign language classes and interaction sessions with hearing impaired people; social, cultural and arts events. A three-day leadership training camp held at the Huang Pu Military Training School and graduate and student promotions with professional assessment sharing and career talks were also organised. A special seminar was held with Dr Rebecca Lee, the first woman to set foot on the 'three poles'. She shared with us the challenges she faced. These events provided young engineers and potential engineers with ample opportunities to develop themselves professionally and personally.

Networking with external bodies increased significantly. Relationships were established with young members of various professional bodies including the Chartered Institute of Arbitrators, Law Society, Chartered Institution of Building Services Engineers, American Society of Heating, Refrigerating and Air-Conditioning Engineers, Hong Kong Institute of Planners and Hong Kong Institute of Surveyors. Existing relationships with the Hong Kong Mediation Council and the Lighthouse Club continued to strengthen. The one-day seminar on Contract Management, Construction Law and Alternative Dispute Resolution (ADR), which were initiated and led by the YMC and co-organised by young members of the five professional bodies, signified professional commitment.

The Mainland Delegation organised by the YMC and co-organised by the young members of the Macau Institution of Engineers and the Institution of Professional Engineers of Japan was successfully held in October 2003. Apart from visiting the Three Gorges Dam project and the sites for the 2008 Olympics, the Delegation also acted as a bridge for cultural exchange between engineers from the Mainland, Hong Kong, Macau and Japan.

The YMC 20th Anniversary Project, with its theme of "Encouraging Diversified Development," continued to progress. Two events were organised – a Song Composition and a Logo Design Competition. The winning song and logo will become the emblem of the YMC 20th Anniversary. A series of sports activities has also been planned.

Promotional activities were carried out as part of the Membership Development Programme (MDP) to sustain the membership of Young Members in the Institution. The launching of the new YMC website, development of a newsgroup and the publication of a monthly newsletter helped to keep members up-dated on the latest activities organised by the Committee and created a strong communication network.



Annual Dinner of YMC

Technical Meetings/Seminars

Date	Title	Speaker(s)/ Remarks
12 Jul 2003	Professional Assessment Part 1: Report & Essay Writing	Martin CHEUNG Tim IP
26 Jul 2003	Young or Ready - Route to Corporate Membership for Manufacturing & Industrial, Mechanical and Gas Disciplines	W K LO Alex LEUNG Joe CHAN Patrick FUNG
21 Aug 2003	Mainland Delegation 2003 Series: Seminar on Opportunities of Engineers in Mainland Gas Market	James KWAN
26 Aug 2003	Mainland Delegation 2003 Preparatory Series: Seminar on Update on Beijing Olympics	Pansy YAU
20 Sep 2003	Mainland Delegation 2003 Preparatory Series: Technical Visit to CLP Power System Control Centre	-
	Professional Assessment Part 2 Professional Interview	Martin CHEUNG Tim IP
22 Sep 2003	講座: 面對挑戰	李樂詩
27 Sep 2003	Mainland Delegation 2003 Series: Technical Seminar and Visit on LPG Industry into the Transportation Sector	Philip SIU
20 Oct 2003	Preparing and Pursuing Claims	KONG Chung Yau
24 Oct 2003	What's Next? Lifelong Learning Series 1: Engineering Master's Programmes	Phillip CHAN
25 Oct 2003	Half-day Communication Workshop	-
1 Nov & 6 Dec 2003	Safety and Health Training Course for Young Members	C S LAM
5 Nov 2003	What's Next? Lifelong Learning Series 2: Business Administration in Engineering Professions	C K LAW
14 Nov 2003	Cable-supported Bridges and Associated Monitoring System	K Y WONG
17 Nov 2003	Tunnel Boring Machine	Ivan P W CHAU
28 Nov 2003	The Arts of Photography	LEE King Hin
13 Dec 2003	Technical Workshop on Geology for Engineers	C H TAN
10 Jan 2004	Private Finance Initiative and Public Private Partnership - How the UK and Australian Experiences May Benefit Hong Kong	Nicholas SEYMOUR
12 Feb 2004	Mediation Seminar	Paco TSANG Joanna LAU Alan LEE
18 Feb 2004	Quality Supervision of Foundation Work - Role of Engineers and Construction Supervisors	James LAU Speaker from BD
25 Feb 2004	BRESS X LSGISS Seminar 2004	Truman CHU
28 Feb 2004	Material Solutions for the Sustainable Future of Hong Kong: Technical Visit to China Southern Glass cum Forum on Production and Quality Control of Architectural Glasses (PSDAS Project)	-

11 Mar 2004	New Town Developments - Where Engineers and Town Planners Meet	K K LING
13 Mar 2004	Materials Solutions for the Sustainable Future of Hong Kong: Technical Seminar on Alternative Construction - Pre-casting and the Use of Lightweight Aggregate Concrete (PSDAS Project)	Tommy LO
19 Mar 2004	Risky Business	Vincent HO
20 Mar 2004	Current Practice and Future Trend of Contract Management, Construction Law and Alternative Dispute Resolution	MO Sau Teddy NG Louise POPPLEWELL KWOK Chi Wa Teresa CHENG
22 Mar 2004	港、澳、日青年工程師二零零三年訪京、鄂團經驗分享講座	-
26 Mar 2004	《阿虫日記》創作之心路歷程	嚴以敬 (阿虫)
2 Apr 2004	How to Conduct Safety Training?	Alex TSE
20 Apr 2004	CAI Symposium 2004 - The Challenge Faced by CAI Engineers in Aviation and Engine Applications	Peter K N LOK Angel LAI W LAM K Y FUNG C K LIU K Y CHUM
21 Apr 2004	Seminar for CSG Helpers	Toni ZEN
30 Apr 2004	Young or Ready - Route to Corporate Membership for Structural and Building Disciplines	-
10 May 2004	Young or Ready - Route to Corporate Membership for Building Services and Electrical Disciplines	-
21 May 2004	Key Element for Project Management	Cliff KONG
25 May 2004	Annual General Meeting	-
	Sustainable Journey	Otto POON Jonathan MCKINLEY
	Annual Dinner	-
18 Jun 2004	Hot Dip Galvanising Against Steel Corrosion	T T KAM

Technical Visits/Other Activities

Date	Title
17 Aug 2003	YMC Three-on-three Basketball Competition
29 Aug 2003	Social Gathering at the Society of Deaf
17-19 Oct 2003	廣州黃埔青少年軍校三天領袖訓練營
18 Oct 2003	Signs Talents Quest
19-26 Oct 2003	港、澳、日青年工程師二零零三年訪京、鄂團
8 Nov 2003	Technical Visit to Chemical Waste Treatment Centre
29 Nov 2003	Technical Visit to Tsing Ma Control Centre
15 Nov 2003	V-Walk for Volunteering
Dec 2003	Logo Design Competition & Song Composition Competition
Dec 2003 - Jul 2004	IT Bridge Project
7-21 Dec 2003	Visit to Children with Prisoner Parents
13 Dec 2003	Penny's Bay Development IT Factory in Zhongshan
17 Dec 2003	Hiking
10 Jan 2004	Technical Visit to Shenzhen Container Berths
11 Jan 2004	Community Service with S K H Lady MacLehose Centre for the Elderly
14 Jan 2004	Social Gathering for Promoting Communication Among Ex-com from YMC, CIBSE & ASHRAE
1 Feb 2004	Save the Children Walk for Luck
7 Feb 2004	Route 9
12 Feb 2004	Tasting Series: Want to Drink Like a Wine Expert?
5 Mar 2004	Social Networking - BBQ Gathering
6 Mar 2004	Site Visit to Castle Peak Road Improvement Works
13 Mar 2004	KCRC ERE-LMC Spur Line Project - Kwu Tung Station and TBM Tunnel
17 Apr 2004	Technical Visit to Government Flying Service
24 Apr 2004	Tasting Series: Fundamentals of Tea Tasting
19 Jun 2004	Community Service with Ronald McDonald House HK