



# MAA Bulletin

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*The GMP Transformation Shop of Hutchison Pharmaceutical (Shanghai)*

**MAA Group Consulting Engineers**  
亞新工程顧問(集團)公司  
BANGKOK BEIJING HONG KONG KAOHSIUNG  
PENANG SHANGHAI SINGAPORE TAIPEI



## MAA Bulletin

Issue 38 November 2004

**MAA Group Consulting Engineers** is a multi-disciplinary consulting firm providing professional services to both private and public clients. Today, MAA Group has companies in the Greater China Region (Beijing, Hong Kong, Shanghai, Taipei), Mekong Region (Bangkok), and Southeast Asia Region (Penang, Malaysia and Singapore), creating a close network in the East /Southeast Asia.

MAA Group's goal is to establish engineering capability that will meet local needs. Along with the change in socio-economic environment over the years, business philosophy of the group has been modified. Today, professional service is no longer a product under the rule of supply and demand. The service is transformed as an asset to the client with long lasting benefits. MAA Group's principle for professional conduct is summarized in the **ASSET** motto:

- A**dvanced Technology
- project **S**afety
- client's **S**atisfaction
- E**conomical Solution
- T**imely Completion

### ISO 9001 CERTIFICATION



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## PERSONNEL PROFILES

## PROJECTS OCTOBER 2003 – MARCH 2004

### *LARGEST ELECTRONIC TOLL COLLECTION PROJECT IN THE WORLD*

With the successful negotiation with the winner of the tender, the Taiwan Area National Freeway Bureau (TANFB) signed a 20-year concession contract with Far Eastern Electronic Toll Collection Co. (FEETC) on 27 April for the installation and operation of the electronic toll collection system. Freeway toll collection in Taiwan is thus going into a new era.

MAA is leading member of the General Consultant of this Build-Own-Operate Transfer (BOOT) project and is joined by T N Soong & Company as financial advisor and LCS & Partner as legal advisor. Dornier Consulting GmbH of Germany provides technical consultancy. The team was responsible for the planning of the system and preparation of tender. Competition was extremely fierce as a total of 7 parties submitted their proposals. The FarEastone Consortium was selected by the Selection Committee as the best applicant on 26 February and immediately entered negotiation with TANFB. In the meantime, on-field tests were carried out for confirming the functionality of the 3 front-end subsystems, namely, communication between on-board units and road-side units, vehicle identification and classification, and law enforcement. For each of these systems, tests were repeated for 500 times with different speeds of cars and conditions and were completed without single failure.



*ETC Field Test*



*ETC Field Test*

The concessionaire, Far Eastern Electronic Toll Collection Co., is composed of FarEastone Telecommunications Co. Teco Electric & Machinery Co., Systex Corp and Mitac Group. Efkon/Fela of Austria will provide the necessary electronic toll collection technology. As the basic scheme, infrared technology will be adopted for the communication between on-board units and road-side units. However, the concessionaire is committed to develop vehicle positioning system (VPS) as an auxiliary system for fleet management and for logistic management. It will take 20 months for FEETC to set up the system at the 22 toll plazas on Freeways No. 1 and No. 3 and the system will be opened for revenue services on 1 January 2006. By then, each car will be equipped with a 2-piece active on-board-unit and toll will be automatically deducted as the car passes the gantry. However, to reduce the impact to drivers, in the first stage of operation, manual toll collection of tolls is still available while some of the lanes are to be converted to electronic tolling. As the penetration rate reaches 65%, manual collection will be discontinued and all the cars will be able to move freely. As there will be at least 4 million on-board units are to be installed, this system is claimed to be the largest ETC project. In the long run, tolls will be based on distance traveled and the scheme of congestion charges will be implemented.

*SURVEILLANCE SYSTEM AND MARITIME  
INFORMATION CENTER FOR KEELUNG PORT, TAIWAN*



*Keelung Port Surveillance System and Maritime Information Center*

In the wake of the New York's World Trade Center event on 11 September 2001, anti-terrorism and security have become important design criteria for all international harbors. The International Ship and Port Security Code, which takes effect on 1 July 2004, mandates that all port facilities must conduct security assessments and submit their security plans, otherwise they will be subject to termination of their operations and/or fines, until they are in full compliance. In line with the international requirements, a surveillance system will be established at the Keelung Harbor, the largest harbor north of Taiwan, to integrate (1) the monitoring systems for the movements of vessels in-and-out of the harbor, (2) the CCTV network for wharves, (3) the environment surveillance system, and (4) the security system.

Moh and Associates, Inc., was appointed by Keelung Port Authority as the General Consultant for the setup of this information center. The scope includes system planning, tendering and evaluation of tenders, and system verification.

This surveillance system, upon its completion, will be able to keep track round the clock of the entire harbor for accidents such as fire, oil contamination, etc.. This will not only enhance the safety of the harbor and ports against attacks, but also increase the efficiency of the Port in handling ships and cargos.

The hub of the system is the Maritime Information Center, which houses modern communication facilities, and is designed with the provision for future expansion of other systems, including the navigation guidance system. New optical fiber cables are to be installed to meet the increasing demands of transmitting huge amounts of data, which the existing trunk lines are unable to handle. Communication via microwave wavelengths will be available between the eastern and western shores of the harbor. This center will be the prototype of the information centers to be setup at all the other harbors in Taiwan.

**TAIWAN HIGH SPEED RAIL PROJCT —  
ADDITIONAL WORKS**

From 01 October 2003 to 31 March 2004, four new contracts of the Taiwan High Speed Rail Project were awarded to MAA:

**Project:**

Contractor’s Independent Checking Engineer for THSR D250 Wujih Depot.



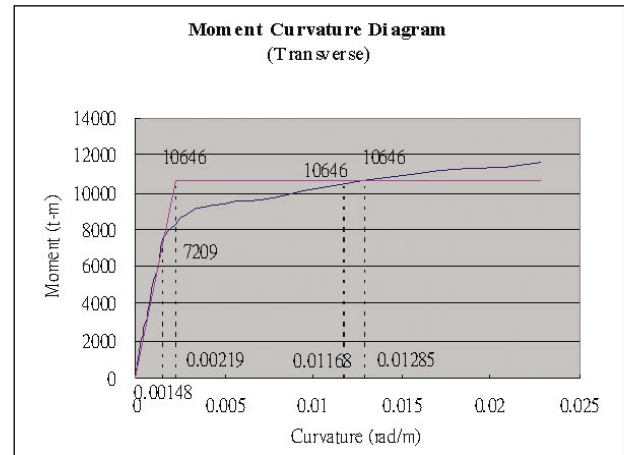
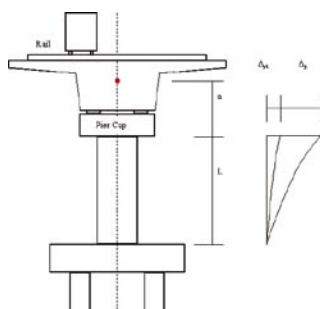
High Speed Rail Wujih Depot

The HSR Wujih depot near THSR Taichung Station is located in Wujih town, Taichung County. The total area of the depot is approximately 20 hectares. The functions of the depot include trainset daily inspections and unscheduled maintenance, trainset stabling, permanent way maintenance and materials storage. The facilities include administration center, inspection shop, wheel tuning shop, traction substation and a number of ancillary buildings.

MAA is engaged by Chung Lu-CTCI-TECO Joint Venture, the Contractor of THSR D250, to provide the independent checking and site verification services for the major design and construction temporary works.

**Project:**

Seismic Capacity Performance Evaluation Services for Taiwan High Speed Rail Project Civil Works C260 and C270.



After the 921 Chi-Chi earthquake in 1999, the THSRC specification for maximum peak ground acceleration level (PGA) was raised from 0.34 to 0.4. However, the civil works was already designed before the earthquake under the original specifications. In order to minimize the impacts on the progress and the finance of the THSR project, THSR wanted to first verify whether the seismic capacity of the existing design could meet the new PGA specification, before conducting any major design changes.

MAA is therefore engaged to carry out the seismic capacity performance evaluation for THSR C260 and C270. Specifically, the evaluation include 8,952 meters in length of tunnels, 3,351 meters in length of earthworks, and 66,890 meters in length of viaduct/bridges.

**Project:**

Inspection and Maintenance Program for Civil Infrastructure Consultancy Service for Taiwan High Speed Rail Project.



Computer System for the Inspection and Maintenance Program in Taiwan High Speed Rail



### **The Solid Formulation Shop**

Production capacity:

1 billion pill annually

480 million capsules annually

Building area: 7,130 sq.m. (1 story)

Engineering cost: 40 million RMB

Feature:

- Design strictly in compliance with GMP requirements
- Automatic HVAC system (adjusting with specific products and loading), guaranteeing the product quality and saving energy.
- Operation data of the HVAC system is stored in computer and can be reviewed and traced.

### **THE SAIL@MARINABAY**



*Marina Boulevard Resident, Singapore*

M/s Glengary Pte Ltd of the City Developments Ltd is planning to develop a “White” site at the New Central Business District situated over the Southern reclaimed land of Singapore for mixed-use development. The proposed development comprises one block of 70-storey and one block of 63-storey residential towers, a carpark & retail podium and one level of part basement. The proposed project site is located on the southern reclaimed land near Raffles Quay and bounded by the proposed Marina Boulevard on North, proposed One Raffles Quay construction site on North-West and future development sites on South-East with existing MRT line crossing the South-Western part of the site area. The existence of complicated geological formation consisting of young reclaimed land, under-consolidated soft Marine Clay and very hard Bouldery Clay and MRT structures impose certain difficulties to the substructure construction works of the proposed development.

M/s Moh and Associates (S) Pte Ltd was engaged by the Structural Consultant, M/s Meinhardt (Singapore) Pte Ltd

on behalf of the Client to provide geotechnical consultancy services including further soil investigation works with regard to the foundation system and excavation works of the proposed development.

### **PROPOSED SEAVIEW CONDOMINIUM DEVELOPMENT AT AMBER ROAD/AMBER CLOSE**

M/s Mer Vue Developments Pte Ltd of the Marco Polo Development Ltd is planning to develop the sites of the Seaview Hotel, the Cold Storage Supermarket and the staff hostel of the China Airlines at Amber Road / Amber Close. The proposed development comprises six (6) blocks of 21-storey condominium with basement carpark and communion facilities located in very thick soft marine clay at the east coast of Singapore.

The Engineer of this project is M/s RSP Architects Planners & Engineers Pte Ltd. M/s Moh and Associates (S) Pte Ltd was engaged by the Engineer on behalf of client to provide geotechnical consultancy services including soil investigation work with regard to the foundation system and excavation work of the proposed development.

### **PROPOSED NUS HIGH SCHOOL**



*NUS High School*

The National University of Singapore (NUS) is planning to develop an existing school site into a high school for Mathematic and Physics. The proposed development comprises fifty (50) classrooms and nine (9) laboratories housed within 3 clusters with a total of 5 storeys and one level roof terrace,

a 15-storey hostel block, canteen cum dining hall, library, auditorium, multi purpose hall and back-filled athletic track and field. The proposed project site is bounded by Clementi Avenue 1 on North, Ayer Rajah Expressway (AYE) on South, Clementi Road on East and HDB flats on West.

M/s Moh and Associates (S) Pte Ltd was engaged by the Engineer, M/s T.Y. Lin South East Asia Pte Ltd on behalf of client to provide geotechnical engineering services including soil investigation works with regard to the foundation system of the proposed development.

### **JUNAN-TOUFAN WASTEWATER TREATMENT PLANT & SEWER SYSTEMS**

As a part of the country-wide plan to implement improvement of wastewater and sewerage treatment systems in Taiwan, MAA Taiwan was commissioned by the Construction and Planning Agency, Ministry of the Interior in June 2003 to undertake the design work for the first stage of the Junan-Toufan Wastewater Treatment Plant and Sewer System in the Miaoli County in central Taiwan.

#### **Wastewater Treatment Plant**

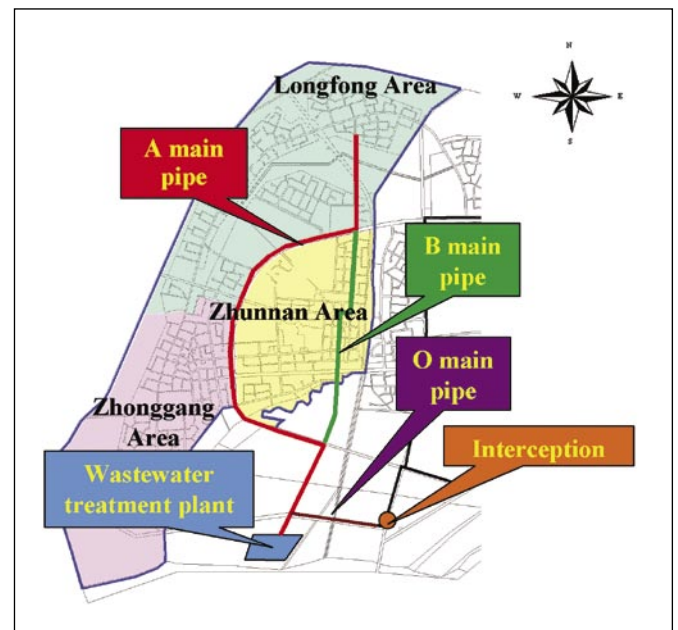


*Junan-Toufan Wastewater Treatment Plant*

Since the Government plans to have the wastewater treatment plant constructed by turnkey (i.e. design-built) contract, only conceptual design will be provided in this work. The design will consist of civil and architectural engineering works, treatment system engineering works and landscape works. The plant will treat household sewage from the Junan Town connections and the Toufan interception stations with the following requirements:

- The treatment design capacity – Average 16,000 cu.m./day
- The design flow qualities are:
  - Influent: BOD5 = 180mg/L, SS = 180mg/L
  - Effluent: BOD5 = 20mg/L, SS = 20mg/L
- Recycled water: 1,600 cu.m./day

#### **Sewage Systems in Junan Town**



*Junan-Toufan Sewer System*

The sewer systems in Junan Town will be constructed in the order of trunk sewers, secondary sewers, tributaries and household connections. The construction methodology must consider impact on local traffic during construction as well as properties of the collection pipelines. The following are some of the basic data:

- Planning area in Junan town – 760 hectares
- Sewage system service area – 403 hectares
- Target completion year: 2007
- Population served – 10,300 in the target year
- Project wastewater flow rate – 16,000 cu.m./day

# PROFESSIONAL ACTIVITIES

## ► SEMINARS AND CONFERENCES

### INTERNATIONAL FEDERATION OF CONSULTING ENGINEERS (FIDIC)

The 2004 annual FIDIC conference was held in Copenhagen in September, addressing best practice, industry issues and young professionals' views. Specifically, the conference stressed the trends in the industry including consolidation of international players with regional and local companies in various forms of alliances. Topics at the conference workshops include:

- Engineer consultants as professional and business partners
- Economies of scale in a global organization
- Ownership structures – will they continue to invest in people
- How to manage growth and profitability at the same time
- From national to global player
- Developing skills and profitability at the same time
- The challenge for consultants in developing economies
- Is big better?
- International networking
- Profit by partnering in practice
- Project indicators for ensuring project sustainability
- Benchmarking
- Selection of consultants – new trends and issues
- “Highly qualified consulting engineer” – new concepts for raising the quality and the image of consultants
- Professional liability

Dr. Za-Chieh Moh, Mr. Steve Wang, and Richard Moh attended the conference with Dr. Za-Chieh Moh as a guest speaker to the workshop on “Profit by partnering in practice.” MAA attends FIDIC annually, as one of MAA’s many international and regional professional activities.

### UNDERGROUND CONSTRUCTION CONFERENCES

Safety measures and risk management are two important issues for underground space development and construction, particularly in congested urban areas. Three conferences and seminars were held in Beijing from February to June 2004, MAA has actively participate in all three events.

(1) Technical Conference on Safety Measures and Systems for Underground Construction in metropolitan Cities, 21 February 2004, Beijing. Organized by Beijing Transportation Development Research Center, Beijing Jiaotong University Tunnel and Underground engineering Center, and MAA International.

In this one day conference with invited participants, three presentations were made by MAA, including:



From Left to Right: Dr. Chung-Tieu Chin, Dr. Za-Chieh Moh, Mdm. Lei Yinggu, Mr. Steve Wang, Mr. Richard Moh



Dr. Za-Chieh Moh's Speech

- Dr. Za-Chieh Moh on “Safety Measures for Underground Construction in Urban Areas”,



*Dr. Richard Nan-Huei Hwang's Presentation*

- Dr. Richard N. Hwang on “Introduction of the Geotechnical Engineering Specialty Consultants for the Taipei MRT”,



*Dr. Chung-Tien Chin's Presentation on Risk Management*

- Dr. Chung-Tien Chin on “Underground Construction, Monitoring System and Risk Management”.
- The Conference was president by Academician Wang, Meng-Shu. Many senior experts including Academician Mr. Shi, Z.H., Mr. Quan, Yong-Shen and Mr. Zhou Zhengyu Chief of the Beijing Transportation Committee, Professor Zhang Mi, senior officials of the Beijing MRT Corporation, participated in the discussion.



*Dr. Za-Chieh Moh and Academician Wang Meng-Shu*

- (2) Risk Management of Urban Rail Transportation Seminar, 24 April 2004, Beijing. Organized by Beijing Transportation Development & Research Center, Beijing Jiaotong University Tunnel & Underground Research Center, Beijing Urban Engineering Design & Research Institute Co., Ltd., and MAA International.

Two presentations were made by MAA, e.g.

- Dr. Richard N. Hwang on “Proposed Safety and Risk Management System for the No. 10 Line of the Beijing MRT”,
- Dr. Chung-Tien Chin on “Implementation of Instrumentation Monitoring System in the Taipei MRT Priority Lines”.

- (3) Advanced Forum about Urban Underground Space Exploration and Underground Engineering Construction Technics in conjunction with the 2004 Conference of the Chinese Academy of Engineering, 26 June 2004 Beijing. Organized by the Chinese Academy of Engineering – Civil & Hydraulic Architectural Engineering Department, China Municipal Engineering Association, Beijing MRT Construction Administration Corporation, Beijing Jiaotong University and Beijing Municipal Engineering Corporation. MAA staff made two oral presentations and two additional written contributions:

- Dr. Za-Chieh Moh on “Protection Systems for the Neighbouring Buildings in Taipei Metro Construction”,
- Dr. Richard N. Hwang on “Risk Management for Underground Construction”.

**THE 3RD CIVIL ENGINEERING CONFERENCE IN THE ASIAN REGION (CECAR)**



3rd Civil Engineering Conference in the Asian Region, August 2004  
All major figures were present

Following the first two conferences successfully held in Manila 1998 and in Tokyo 2001, the 3rd Civil Engineering Conference in the Asian Region was held in Seoul, Korea on 16–19 August 2004, organized by the Asian Civil Engineering Coordinating Council and the Korean Society of Civil Engineers. The Conference with the theme “For a Better Quality of Life” was attended by more than 800 delegates from 17 countries. Dr. Za-Chieh Moh chaired one of the sessions of Special Forum 2 “New Trends in the Asian Construction Industry”.

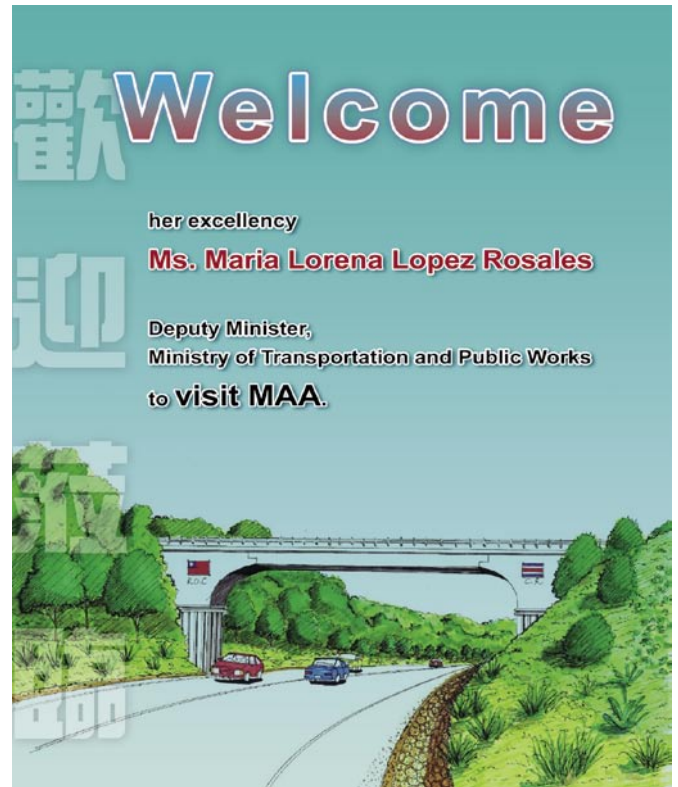
**SEMINARS IN CHINA**

	SEMINAR DESCRIPTION	SPONSORSHIP	START DATE	END DATE	LOCATION
1	三峽工程管理資訊系統(TGPMIS)在三峽工程實施成效專題演講	財團法人中興工程顧問社	1/13/03	1/13/03	Taipei
	Construction Management and Information System for Three Gorges Dam Construction	Sinotech Engineering Consultants, Inc.			
2	2003年海峽兩岸先進橋樑工程研討會	中國土木水利工程學會	2/26/03	2/26/03	Taipei
	2003 Cross Strait Bridge Engineering Seminar	China Institute of Civil and Hydraulic Engineering			
3	北京地鐵 4, 5, 9, 10 號線國際融資研討暨推介會	北京市發展和改革委員會, 北京市交通委員會, 北京市人民政府國有資產監督管理委員會	6/29/04	6/30/04	Beijing
	International Conference on the Financing & Promotion of Beijing No. 4, No. 5, No. 9 and No. 10 Subway Lines	Beijing Municipal Development and Reform Commission, Beijing Municipal Communications Commission, Beijing Municipal State-owned Assets Supervision and Administration Commission			
4	Third International Conference on Current and Future Trends in Bridge Design, Construction and Maintenance	Institute of Civil Engineer,UK	9/29/03	10/1/03	Shanghai
5	21世紀國際橋樑技術的發展與展望技術論壇	中鐵大橋局集團有限公司	10/14/03	10/20/03	Wuhan, Hubei
	21st Century International Bridge Engineering and Development Conference	China Zhongtie Major Bridge Engineering Group Co. Ltd.			
6	第三屆兩岸結構與大地工程研討會	國立台灣大學工學院	10/23/03	10/24/03	Taipei
	3rd Cross Strait Structural and Geotechnical Engineering Seminar	College of Engineering, National Taiwan University			
7	城市地下工程建設安全技術諮詢研討會(1)	北京交通發展研究中心 北京交通大學隧道及地下工程研究中心 國際亞新工程顧問有限公司	2/21/04		Beijing
	Technical Conference on Safety Measures and Systems for Underground Construction in Metropolitan Cities Part I	Beijing Transportation Development & Research Center, Beijing Jiaotong University Tunnel and Underground Engineering Center, MAA International			

	SEMINAR DESCRIPTION	SPONSORSHIP	START DATE	END DATE	LOCATION
8	城市軌道交通工程安全風險管理技術匯報會	北京交通發展研究中心 北京交通大學隧道及地下工程研究中心 北京城建設計研究總院有限責任公司 國際亞新工程顧問有限公司	4/24/04		Beijing
	Risk Management of Urban Rail Transportation Seminar	Beijing Transportation Development & Research Center, Beijing Jiaotong University Tunnel & Underground Research Center, Beijing Urban Engineering Design & Research Institute Co., Ltd., and MAA International.			
9	城市地下空間開發與地下工程施工技術高層論壇暨中國工程院2004年工程科技論壇	中國工程院土木、水利與建築工程學部 中國市政工程協會 北京市軌道交通建設管理有限公司 北京交通大學 北京市市政工程總公司	6/26/04		Beijing
	Development and Utilization of Underground Space Conference; Chinese Academy of Engineering 2004 Conference	Chinese Academy of Engineering -Civil and Hydraulic Architectural Engineering Dept. China Municipal Engineering Association Beijing MTR Construction Administration Corp. (MTRCA) Beijing Jiaotong University Beijing Municipal Engineering Corporation			
10	海峽兩岸結構抗風減震工程實務研討會	國立交通大學防災工程研究中心	3/11/04	3/12/04	Beijing
	Cross Strait Earthquake and Wind Resistance Structural Engineering Seminar	Natural Hazard Mitigation Research Center, NCTU			
11	海峽兩岸學術交流制震減震隔震研討會	台北市土木技師公會	6/6/04		Taipei
	Cross Strait Educational Exchange on Earthquake Resistance Engineering Seminar	Taipei Professional Civil Engineerings Association			
12	第四屆海峽兩岸隧道與地下道工程學術與技術研討會	中華民國隧道協會	8/21/04	8/22/04	Shandong, Shanghai
	The Fourth Cross-Strait Tunneling and Underground Engineering Academic and Technical Conference	Chinese Taipei Tunnelling Association			
13	Metropolitan Habitats and Infrastructure	International Association for Bridge and Structural Engineering	9/21/04	9/25/04	Shanghai
14	海峽兩岸工程諮詢企業交流洽談會	中國工程諮詢協會 湖南省國際工程諮詢公司	10/16/04		Changsha, Hunan
	Cross Strait Exchange between Engineering Consulting Companies	China National Association of Engineering Consultants, Hunan Province International Engineering Consultants Co.			
15	上海市地下空間開發利用中地質環境問題院士(專家)諮詢會	上海市建設和管理委員會 上海市中國工程院院士諮詢與學術合作中心	10/22/04	10/23/04	Shanghai
	Shanghai Development and Utilization of Underground Space, China Academician Conference	Guide for Shanghai Urban Construction Shanghai and Management Commission Shanghai Chinese Academy of Engineering Construction and Science Center			
16	2004海峽兩岸地工技術/岩土工程交流研討會	財團法人地工技術研究發展基金會	11/9/04	11/11/04	Taipei
	2004 Cross Strait Seminar on Geotechnical Engineering	Sino-Geotechnics Research and Development Foundation			
17	中國公路學會來台交流考察訪問團	中華民國道路協會	12/2/04		Taipei
	China Highway Association Delegation Visit	China Road Federation			



*Geo Expo, Korea March 2004*



*Costa Rica's Deputy Minister, Ministry of Transportation and Public Works Visits MAA in August 2004*



*China Delegation for 2004 Cross Strait Seminar on Geotechnical Engineering*



*China Highway Association Delegation Visit to MAA*

## ► CONFERENCES, SEMINARS, AND OTHER MEETINGS

SEMINAR DESCRIPTION	SPONSORSHIP	LOCATION	START DATE	END DATE
10th Conference on Current Research in Geotechnical Engineering in Taiwan	National Central University	Taipei	02/10/2003	04/10/2003
Iso-17025 Quality Management of LAB	GeoInfo Scientek Consultant Inc.	Taipei	02/10/2003	03/10/2003
International Workshop on Ecohydraulics and Eco-Rivers Engineering	Water Resources Agency, Ministry of Economic Affairs	Taipei	02/10/2003	03/10/2003
The 6th Asia-Pacific ITS Forum & Exhibitions	Intelligent Transportation Society of Taiwan	Taipei	06/10/2003	09/10/2003
The Training Course for Production Technique and Construction Application of HPC	Taiwan Construction Research Institute	Taipei	07/10/2003	08/10/2003
ITS Dynamic Traffic Assignment and Simulation Workshop	Institute of Transportation, MOTC	Taipei	07/10/2003	08/10/2003
Seminar on Water Reused and Risk Assessment	National Taipei University of Technology	Taipei	08/10/2003	08/10/2003
Rock Mass Classification and Tunnel Support System (PCCR-System) at Taiwan	Public Construction Commission, Executive Yuan	Kaohsiung	09/10/2003	09/10/2003
The fourteenth Course of the Modern Archives Management Learning	China File and Micrographic Information Management Institute	Taipei	13/10/2003	17/10/2003
Development and Prospect of International Bridge Construction Technology in the 21st Century Technical Forum	China Zhongtie Major Bridge Engineering Group Co. Ltd.	Hupei	14/10/2003	20/10/2003
Seminar on Design and Application of A Seismic Device for Building Structures	Chung-hwa Building Research Center	Taipei	14/10/2003	14/10/2003
Workshop on Eco-Rivers Engineering	Landscape Architecture Association of the Republic of China	Taichung	17/10/2003	17/10/2003
Conference on New System of Retirement Pension and New Ordinance	Chung-Ching Management Consulting, Inc.	Taipei	17/10/2003	17/10/2003
Conference on the Catastrophe of Underground Construction and It's Relieve	Kaohsiung Civil Engineer Associations	Kaohsiung	19/10/2003	19/10/2003
The Fundamental of Law Course	Veracity Foundation of Legal Studies	Taipei	20/10/2003	01/12/2003
Conference on Land Plan and Development	Chinese Institute of Civil and Hydraulic Engineering	Taipei	21/10/2003	21/10/2003
Commentary on BOT Project of Transportation Infrastructures	China Road Federation	Taipei	21/10/2003	21/10/2003
2003 GIS Symposium & GIS Exhibition of Kaohsiung Municipal Government	Chinese Geographic Information Society	Kaohsiung	23/10/2003	24/10/2003
Conference on Ecological Engineering-Habitat Improvement Technique-Dissertation	Soil & Water Conservation Bureau, COA, Executive Yuan	Taipei	23/10/2003	23/10/2003
The 3rd Cross-Strait Conference on Structural and Geotechnical Engineering	College of Engineering , National Taiwan University	Taipei	23/10/2003	24/10/2003
Conference on Analysis of Contract Agreement of Kaohsiung MRT and Case Study of Arbitration of Taipei MRT Project	Construction Industry Foundation for Research and Development, R.O.C.	Taipei	25/10/2003	25/10/2003
The 23rd Sino-Japanese Modern Engineering and Technology Symposium-Railway Facilities Seminar	Bureau of Taiwan High Speed Rail, MOTC	Taipei	28/10/2003	28/10/2003
Seminar on Ecological Engineering	Taiwan Power Company	Taipei	29/10/2003	29/10/2003
Conference on Management System of Salary and Bonus	Labor-Management Consulting, Ltd.	Taipei	29/10/2003	29/10/2003
Seminar on the Applications of Structural Earthquake Resisting	Chinese Society of Structural Engineering	Taipei	05/11/2003	05/11/2003
Training Course on General Affairs Administrative Management	China Management Consultants, Inc.	Taipei	05/11/2003	06/11/2003

SEMINAR DESCRIPTION	SPONSORSHIP	LOCATION	START DATE	END DATE
The Research of Software P3	China Engineering Consultants, Inc.	Taipei	06/11/2003	07/11/2003
Seminar on Optical Fiber Sensors to Civil Engineering Structures	National Center for Research on Earthquake Engineering	Taipei	06/11/2003	07/11/2003
Workshop for Green Building and Ecotechnology	The Chinese Association of Engineering Consultants R.O.C	Taipei	07/11/2003	07/11/2003
Conference on 2002 River and Coastal Area Investigation and Planning	Water Resources Agency, MOEA	Taichung	11/11/2003	11/11/2003
IWES 2003 :The International Wind Engineering Symposium	Wind Engineering Research Center, TamKang University	Taipei	17/11/2003	18/11/2003
Symposium on Geological Investigation and Approaches to Mitigation of Debris Flow	Central Geological Survey, MOEA	Taipei	17/11/2003	18/11/2003
Seminar on Development and Applying Self Compacting Concrete (2003)	Taiwan Construction Research Institute	Taipei	20/11/2003	21/11/2003
Seminar on Hydrogeologic Investigation and Application	Central Geological Survey, MOEA	Taipei	25/11/2003	25/11/2003
2003 Taipei International Workshop on Ecotechnology	Public Construction Commission, Executive Yuan	Taipei	26/11/2003	27/11/2003
International Conference on Life-Cycle Management of Civil Infrastructure	Center for Bridge Engineering Research, National Central University	Taoyuan	27/11/2003	28/11/2003
2003 Convention and 18th Annual Conference for the Chinese Institute of the Transportation	Chinese Institute of Transportation	Hsinchu	05/12/2003	05/12/2003
Seminar on Geographic Information System and National Physical Planning	Taiwan Construction Research Institute	Taipei	11/12/2003	11/12/2003
Training for Technician and Technology Consulting Engineers, Technician and Management Information System	Public Construction Commission, Executive Yuan	Taipei	18/12/2003	18/12/2003
PCALS Program Training Course	China Productivity Center	Kaohsiung	26/12/2003	26/12/2003
2003 Annual Meeting on Hazard Mitigation Research	National Chung Hsing University & National Science and Technology Program for Hazards Mitigation	Taichung	03/02/2004	04/02/2004
Conference on 5th Asia-Pacific Transportation Development	Chinese Institute of Transportation	Taipei	13/02/2004	13/02/2004
2004 International Conference on Eco-Technology	Public Construction Commission, Executive Yuan	Taipei	13/02/2004	14/02/2004
Seminar on Kaohsiung Linkang Line Light Rail	Mass Rapid Transit Bureau, Kaohsiung City	Kaohsiung	25/02/2004	25/02/2004
2004 Tainan Metropolitan Light Rail Transit System Forum	Tainan County Government	Tainan	03/03/2004	03/03/2004
ISO 9001:2000 Series Auditor/Lead Auditor Training Course	BVQI (Taiwan) Co., Ltd.	Taipei	22/03/2004	26/03/2004
France-Taiwan Join Seminar on Bridge Engineering Technology	National Central University	Taoyuan	23/03/2004	24/03/2004
Seminar on Bridge Bearing Design and Construction	Taiwan Area National Expressway Engineering Bureau, MOEA	Taipei	25/03/2004	25/03/2004
First Conference on Resources Engineering in Taiwan	Department of Resources Engineering, National Cheng Kung University	Taipei	25/03/2004	25/03/2004
Seminar on Retrospect of Construction for Second Freeway	Ministry of Transportation and Communication Taiwan Area National Expressway Engineering Bureau	Taipei	01/04/2004	02/04/2004

SEMINAR DESCRIPTION	SPONSORSHIP	LOCATION	START DATE	END DATE
Seminar on Retrospect of Construction for Second Freeway	Ministry of Transportation and Communication Taiwan Area National Expressway Engineering Bureau	Taipei	01/04/2004	02/04/2004
Public Construction Quality Management training Course	China Productivity Center	Taipei	14/04/2004	15/06/2004
Environmental Protection Method for Pile Foundation Construction Conference	National Chung-Hsing University	Taichung	15/04/2004	15/04/2004
Site Visit on the Shielding Tunnels of the Fourth Nuclear Power Project	National Expressway Engineering Bureau Sinotech, Chinese Tunnel Association	Taipei	21/04/2004	21/04/2004
The Contract of Management and indemnification Training Course	Taiwan Construction Research Institute	Taipei	22/04/2004	23/04/2004
Symposium for Exchanging Construction Experience for Tunnelling	National Expressway Engineering Bureau Sinotech, Chinese Tunnel Association	Yilan	22/04/2004	23/04/2004
The First Lecture and Study of Ecological Engineering Method for Engineer	Ministry of Transportation and Communication Taiwan Area National Expressway Engineering Bureau	Nantou	28/04/2004	30/04/2004
Training on Implement of Balance Scorecard System	UCOM Information Technology Co.,Ltd	Taipei	29/04/2004	30/04/2004
Abroad Application Perspectives of Self-Compact Concrete	Ministry of Transportation and Communication Taiwan Area National Expressway Engineering Bureau	Taipei	29/04/2004	29/04/2004
CUTA Annual and Member's General Meeting in 2004	Chinese Undersea Technology Association	Taipei	30/04/2004	30/04/2004
General Conditions Contract	Chinese Association of Engineering Consultants,Taipei China	Taipei	06/05/2004	06/05/2004
The Proceeding of Pavement Maintenance and Management	China Road Federation	Taipei	06/05/2004	06/05/2004
Application of Value Engineering	Value Management Institute of Taiwan	Taipei	07/05/2004	07/05/2004
Seminar on the Latest Product of STAAD. Pro 2004 In Taiwan	Sunkom Technique Co., Ltd	Taipei	10/05/2004	10/05/2004
Conference of Austrian Railway Technology	Austrian Trade Delegation in Taipei	Taipei	11/05/2004	11/05/2004
Workshop on Protective System for Building Equipments and High-Tech Facilities	Chinese Taiwan Society of Earthquake Engineering	Taichung	14/05/2004	14/05/2004
CNLA Assessor Training Course	Taiwan Accreditation Foundation Chinese National Laboratory Accreditation	Taipei	17/05/2004	21/05/2004
International Conference of Applying Technology of Fireproof Materials on Building Structure	Chinese Architecture & Building Center	Taipei	18/05/2004	19/05/2004
Insurance Matters of Tunnel Construction	National Expressway Engineering Bureau Sinotech, Chinese Tunnel Association	Taipei	18/05/2004	18/05/2004
Seminar on Bridge Condition Evaluation	Taiwan Area National Freeway Bureau	Taipei	21/05/2004	21/05/2004
The Fundamentals of Law Course	Veracity Foundation of Legal Studies	Taipei	31/05/2004	12/07/2004
IS-OSAKA 2004, International Symposium on Engineer Practice and Performance of Soft Deposits	The Japanese Geotechnical Society	Osaka	01/06/2004	04/06/2004
Public Construction Quality Management Retraining Course	China Productivity Center	Taipei	01/06/2004	17/06/2004
Engineering Geology Seminar(14)-Geology Survey and Discussing in Hualien and Taitung Area	Sino-Geotechnics Research and Development Foundation	Hualien, Taitung	07/06/2004	08/06/2004

SEMINAR DESCRIPTION	SPONSORSHIP	LOCATION	START DATE	END DATE
SRC Code and 2002 World Cup Stadium Application	Chinese Union of Professional Civil Engineer Associations	Taipei	10/06/2004	10/06/2004
2004 International Light Rail Transit Symposium in Taiwan	Chu-Hwa University	Hsinchu	10/06/2004	11/06/2004
Rail Engineering Training Course	Rail Engineering Society,R.O.C	Taipei	14/06/2004	18/06/2004
5th Asian Young Geotechnical Engineers Conference	Taiwan Geotechnical Society	Taipei	14/06/2004	16/06/2004
Introduction to ArcIMS	Hitron Technologies Inc.	Taipei	23/06/2004	25/06/2004
Conference of 2004 National Geographic Information of Utilitics System	Taichung City Government	Taichung	25/06/2004	25/06/2004
Seminar on Participation of Private Sectors in Infrastructure BOT Projects	Promote Participation of Private Secors Association	Taipei	25/06/2004	25/06/2004
Symposium for Ecological and Segmental Retaining Wall Design and Construction	Taiwan Construction Research Institute	Taipei	25/06/2004	25/06/2004
Workshop on Basics of Structural Health Monitoring & Optical Sensing Technologies in Civil Engineering	Center for Bridge Engineering Research of N.C.U	Jhongli	28/06/2004	30/06/2004
Training Course on Bridge Inspection Evaluation and Maintenance	Institute of Transportation, MOTC	Jhongli	30/06/2004	02/07/2004
The 2nd Technical Seninar for Energy and HVAC Engineering Application	Chinese Society of Heating Ventraton and Air Conditioning	Taichung	05/07/2004	06/07/2004
Introduction to ArcSDE	Hitron Technologies Inc.	Taipei	08/07/2004	09/07/2004
Seminar on Accounting for Engineering Consultants	Taipei Federation of Engineering Consultants	Taipei	13/07/2004	13/07/2004
Introduction to ArcGISII	Hitron Technologies Inc.	Taipei	14/07/2004	16/07/2004
Ecological Engineering Methods-Ryushikoh	National Tsing Hua University	Hsinchu	20/07/2004	20/07/2004
Model I Training Courses of Value Engineering	Chinese Value Engineering	Taipei	25/07/2004	22/08/2004
Seminar on Financial Affairs for Engineering Consultants	Taipei Federation of Engineering Consultants	Taipei	27/07/2004	27/07/2004
Safety Training of the Contractor for Taipei Rapid Transit System	Taipei Rapid Transit Corporation	Taipei	27/07/2004	27/07/2004
Visiting ACER e-Enabling Data Center, ACER eDC	Chinese Institute of Civil and Hydramic Engineering	Taoyuan	06/08/2004	06/08/2004
The Fourth Cross-Strait Tunneling and Underground Engineering Academic and Technical Conference	Chinese Taiwan Tunneling Association	Shantung, Shanghai	21/08/2004	22/08/2004
The 7-th National Conference on Structural Engineer	Department of Civil Engineering,Chung Yuan Christain Universituy	Taoyuan	22/08/2004	24/08/2004
Seminar on EIA and Resource Conservation	EPA Republic of China	Taipei	26/08/2004	27/08/2004
The Fourteenth Seminar on Sewer and Watter Environment	Taiwan Water Environmental Association	Taipei	27/08/2004	27/08/2004
ArcView Gis I	Hitron Technologies Inc.	Taipei	02/09/2004	03/09/2004
The Arbitrary Series of Engineering Laws	The Arbitration Association of the Republic of China	Taipei	07/09/2004	05/10/2004
Arc object	Hitron Technologies Inc.	Taipei	09/09/2004	14/09/2004
Conference on the Application of Ecological Engineering for Road Construction	China Road Federation	Taipei	09/09/2004	09/09/2004

SEMINAR DESCRIPTION	SPONSORSHIP	LOCATION	START DATE	END DATE
The Symposium on Application of Design-Build and Most Advantageous Tender in Public Engineering	Chinese Institute of Civil and Hydraulmic Engineering	Taipei	16/09/2004	17/09/2004
France-Taiwan Seminar on Urban Transport	French Economic Department	Taipei	16/09/2004	16/09/2004
Metropolitan Habitats and Infrastructure	International Association for Bridge and Structural Engineering	Shanghai	21/09/2004	25/09/2004
Public Construction Cost Estimate System Development Project	Archnowledge Co.,Ltd	Taipei	24/09/2004	25/09/2004
2004 Internation Conference on Slope and Disaster Mitigation	Council of Agriculture	Taipei	05/10/2004	06/10/2004
Laboratory Accreditation Standard-ISO/IEC 17025 Training	Taiwan Accreditation Foundation	Taipei	06/10/2004	08/10/2004
Management Compensation	NSME Research and Learning Center	Taipei	06/10/2004	21/10/2004
Presentation of International Symposium on Landslide and Debris Flow Hazard Assessment	Central Geological Survey	Taipei	07/10/2004	08/10/2004
The Situation and Future Prospects of High Resolution Remote Sensing in Airplane and Satellite	Center for Space and Remote Sensing Research National Central University	Jhongli	08/10/2004	08/10/2004
The 24th Chinese-Japanese Engineering Technique Conference	Directorate General of Highway, MOTC	Taipei	19/10/2004	20/10/2004
2004 Tainan Rock Engineering Symposium	Department of Civil Engineering, TamKang	Taipei	21/10/2004	22/10/2004
American Simpson Strong-Tie Wood Connector & Wood Corrupt Prevention Technique Symposium	Yi-Tsai Wood Co., Ltd & Simpson Strong-Tie Co., Ltd	Taipei	29/10/2004	29/10/2004

## ▶ TECHNICAL PUBLICATIONS

CHEN, M.S., DUANN, S.W., WHANG, Y.H., SEAH, T.H. (2003), "Design Consideration of Bridge Pile Foundations, Taiwan High Speed Rail", *10th Conference on Current Researches in Geotechnical Engineering, 2-4 October, Sanshia, Taiwan (in Chinese)*, pp. 197-200.

SEAH, T.H., SANGTIAN, N. and CHAN, I.C. (2004) "Vane Shear Behaviour of Soft Bangkok Clay", *Geotechnical Testing Journal, American Society for Testing and Materials, Vol. 27, No. 1, pp. 57-66.*

## PERSONNEL MOVEMENTS

### ▶ NEW APPOINTMENTS

ENGLISH NAME	CHINESE NAME	TITLE	DEPARTMENT	EFFECTIVE DATE
Yueh-Chin Huang	黃月琴	Civil Engineer II	Transportation & Civil Eng. Dept. II	16/10/2003
Chen-Yuan Chiu	邱振原	Senior Technician	Fushing North Road Underpass Project	10/11/2003
Sung-Ju Chan	詹松儒	Geotechnical Engineer I	Geotechnical Engineering Dept.	18/11/2003

ENGLISH NAME	CHINESE NAME	TITLE	DEPARTMENT	EFFECTIVE DATE
Min-Chieh Lien	連敏傑	Trainee	Environment Protection Dept.	24/11/2003
Cheng-Hsing Pan	潘政興	Geotechnical Engineer III	Geotechnical Engineering Dept.	28/11/2003
Hsiu-Chen Chang Chien	張簡秀震	Senior Geotechnical Engineer II	Kaohsiung Office	01/12/2003
Wen-Chung Lee	李文中	Senior Technician	Electric & Mechanical System Engineering Dept.	01/12/2003
Wei-Ling Su	蘇維翎	Environmental Engineer II	Environment Protection Dept.	24/12/2003
Chun-Wu Sung	宋淳伍	Environmental Engineer II	Environment Protection Dept.	05/01/2004
Wen-Chi Chen	陳文琦	Site Assistant	Transportation & Civil Eng. Dept. I	01/02/2004
Ching-Yu Chien	簡清鈺	Electrical Engineer II	Electric & Mechanical System Engineering Dept.	16/02/2004
Yi-Hsien Lin	林沂賢	Civil Engineer II	Transportation & Civil Eng. Dept. II	01/03/2004
Jie-Ru Chen	陳皆儒	Geotechnical Engineer I	Geotechnical Engineering Dept.	08/03/2004
Yaw-Shyan Tsay	蔡耀賢	GIS Engineer I	Geomatics Dept.	08/03/2004
Chih-Ming Wang	王志銘	Structure Engineer II	Structural Engineering Dept.	15/03/2004
Mei-Chu Kang	康美祝	Environmental Engineer II	Environment Protection Dept.	22/03/2004
Yi-Ting Jiang	江怡廷	Civil Engineer II	Transportation & Civil Engg. Dept. I	01/04/2004
Chih-Ming Liu	柳志明	Civil Engineer II	Construction Management Dept.	01/04/2004
Jiun-Nan Chen	陳俊男	Civil Engineer III	Transportation & Civil Engg. Dept. I	08/04/2004
Li-Chien Lin	林立千	Senior Technician	Construction Management Dept.	12/04/2004
Wen-Chiu Wang	王文志	Civil Engineer II	Transportation & Civil Engg. Dept. II	12/04/2004
Yu-Fang Lin	林妤芳	Environmental Engineer I	Environment Protection Dept.	16/04/2004
Kai-Wen Chiang	姜凱文	System Engineer	Information Center	03/05/2004
Chia-Chun Yu	游佳純	Site Assistant	Transportation & Civil Engg. Dept. I	12/05/2004
Chih-Sheng Kao	高之聖	Messenger	Administration Dept.	14/05/2004
Chong-Ming Sun	孫仲民	Civil Engineer II	Transportation & Civil Engg. Dept. I	17/05/2004
Hsiao-Chou Chao	趙曉周	Geotechnical Engineer I	Geotechnical Engineering Dept.	24/05/2004
Yu-Wen Huang	黃裕文	Electrical Engineer II	Electric & Mechanical System Dept.	01/06/2004

ENGLISH NAME	CHINESE NAME	TITLE	DEPARTMENT	EFFECTIVE DATE
Chien-Yu Kuo	郭建瑜	Electrical Engineer III	Electric & Mechanical System Dept.	01/06/2004
Yun-Hui Lai	賴昀暉	Geotechnical Engineer II	Geotechnical Engineering Dept.	16/06/2004
Shih-Yuan Lin	林士淵	Geotechnical Engineer II	Geotechnical Engineering Dept.	24/06/2004
Chia-Hsuan Chuang	莊家瑄	Geotechnical Engineer II	Geotechnical Engineering Dept.	01/07/2004
Hsin-Ling Wu	吳心綾	Civil Engineer II	Transportation & Civil Engg. Dept. I	01/07/2004
Jun-Ta Yu	余俊達	Geotechnical Engineer II	Geotechnical Engineering Dept.	01/07/2004
Wen-Chou Chen	陳文洲	Civil Engineer II	Transportation & Civil Engg. Dept. II	05/07/2004
Chu-Fang Hsu	許菊芳	Geotechnical Engineer II	Geotechnical Engineering Dept.	15/07/2004
Hsiang-Hui Chen	陳祥輝	Electrical Engineer I	Electric & Mechanical System Dept.	19/07/2004
Yi-Chia Su	蘇怡嘉	Site Assistant	Environment Protection Dept.	26/07/2004
Chia-Huei Jeng	鄭嘉惠	Site Assistant	Transportation & Civil Engg. Dept. I	02/08/2004
Chien-Ming Chiu	邱建銘	Geotechnical Engineer II	Geotechnical Engineering Dept.	06/08/2004
Shih-Sheng Ho	何世勝	Environmental Engineer II	Environment Protection Dept.	09/08/2004
Yu-Chi Lee	李玉麒	Civil Engineer III	Transportation & Civil Engg. Dept. I	16/08/2004
Chi-Yuan Huang	黃啟源	Programmer	Information Center	16/08/2004
Wei-Wen Chang	張薇文	Civil Engineer II	Construction Management Dept.	16/08/2004
Wan-Yuan Chen	陳萬原	Environmental Engineer II	Environment Protection Dept.	16/08/2004
Joue-Jiing Lin	林久景	Electrical Engineer III	Electric & Mechanical System Dept.	27/08/2004
Ming-Yi Hsu	徐名頤	Civil Engineer II	Construction Management Dept.	01/09/2004
Tsung-Pei Ku	顧宗沛	Civil Engineer II	Construction Management Dept.	01/09/2004
Shih-Jing Chueh	關士景	Civil Engineer II	Transportation & Civil Engg. Dept. I	20/09/2004
Chung-Nan Weng	翁宗男	Environmental Engineer II	Environment Protection Dept.	01/10/2004
Chung-Bo Wang	王琮柏	Geotechnical Engineer II	Geotechnical Engineering Dept.	11/10/2004
Shih-Hao Liu	劉士豪	Electrical Engineer II	Electric & Mechanical System Dept.	11/10/2004
Kuo-Long Chen	陳國龍	Civil Engineer I	Transportation & Civil Engg. Dept. I	21/10/2004
Hong-Zhe Liu	劉弘哲	Civil Engineer II	Construction Management Dept.	21/10/2004
Yu-Ming Huang	黃瑜民	Civil Engineer II	Construction Management Dept.	25/10/2004
Fu-Chung Wang	王富雄	Electrical Engineer III	Electric & Mechanical System Dept.	25/10/2004

## PROMOTIONS

ENGLISH NAME	CHINESE NAME	DEPARTMENT	FROM	TO	EFFECTIVE DATE
Chih-Ming Huang	黃志民	Kaohsiung Office	Site Assistant	Technician II	01/01/2004
Wen-Fu Wu	吳文甫	Kaohsiung Office	Senior Technician	Civil Engineer III	01/01/2004
Chun-Ta Lin	林俊達	Structural Engineering Dept.	Structural Engineer II	Structural Engineer I	01/01/2004
Jian-Bang Yang	楊健邦	Transportation & Civil Eng. Dept. I	Civil Engineer II	Civil Engineer I	01/01/2004
Chuan-Hsin Chin	金全鑫	Geomatics Department	Geotechnical Engineer II	Geotechnical Engineer I	01/01/2004
Jin-Ling Shsu	許金凌	Geomatics Department	CADD Operator	CAD Designer III	01/01/2004
Chi-Yu Liu	劉濟宇	Electronic & Mechanical Department	Mechanical Engineer II	Mechanical Engineer I	01/01/2004
Chih-Wen Pan	潘志文	Electronic & Mechanical Department	Electrical Engineer III	Electrical Engineer II	01/01/2004
Xiao-Bing Chu	朱曉斌	Electronic & Mechanical Department	Mechanical Engineer II	Mechanical Engineer I	01/01/2004
Mu-Kuei Chang	張穆奎	High Speed Rail Project	Structural Engineer II	Structural Engineer I	01/01/2004
Yi-Yu Chen	陳逸宇	High Speed Rail Project	Structural Engineer II	Structural Engineer I	01/01/2004
Chien-Chih Lu	盧建志	High Speed Rail Project	Structural Engineer II	Structural Engineer I	01/01/2004
Chin-Sheng Hsu	許晉盛	High Speed Rail Project	Structural Engineer II	Structural Engineer I	01/01/2004
Kuo-Kuang Liu	劉國光	Structural Engineering Dept.	Structural Engineer I	Senior Structural Engineer II	01/01/2004
Shao-Kuei Chen	陳紹魁	Construction Management Dept.	Geotechnical Engineer I	Senior Geotechnical Engineer II	01/01/2004
I-Chou Hu	胡逸舟	Geotechnical Engineering Dept.	Geotechnical Engineer and Laboratory chief	Senior Geotechnical Engineer II and Laboratory chief	01/01/2004
Chen-Hui Hsieh	謝震輝	Transportation & Civil Engineering Dept. II	Senior Structural Engineer II	Senior Structural Engineer II and Vice Manager of	16/04/2004
Huat-Yoo Chua	蔡發耀	Structural Engineering Dept.	Senior Structural Engineer I	Principal Engineer	01/06/2004
Yuang-Her Whang	黃永和	High Speed Rail Project	Senior Structural Engineer I and Manager of High Speed Rail Project	Senior Structural Engineer I and Manager of Structural Engineering Dept.	01/06/2004
Chung-Ho Chiao	焦中和	Structural Engineering Dept.	Vice President	Senior Vice President	01/07/2004
Chung-Tien Chin	秦中天	Geotechnical Engineering Dept.	Vice President	Senior Vice President	01/07/2004
Chia-Hsing Wu	吳家興	Environmental Protection Engineering Dept.	Environmental Protection Engineer II	Environmental Protection Engineer I	01/07/2004
Wen-Chung Lee	李文中	Electrical and Mechanical Engineering I	Senior Technician	Electrical Engineer III	01/09/2004

# AWARDS

## AWARDS

NAME	DEPARTMENT	POSITION	DESCRIPTION	Award Type
Pei-Yu Huang 黃培宇	High Speed Rail Project	Senior Civil Engineer II	As the Design Manager of High Speed Rail Civil Works Contract C296, Dr. Pei-Yu Huang is recognized for the exceptional quality work and problem solving efforts. His accomplishments led to the smooth completion of the project, and were the working model for MAA's subsequent High Speed Rail projects. The Client, Evergreen-Shimizu Joint Venture, particularly mentioned his outstanding performance in the Letter of Appreciation.	Merit Award
Chin-Nan Cheng 鄭進南	Kaohsiung Office	Senior Civil Engineer II	As the Quality Assurance Manager of High Speed Rail Civil Works Contract C296, Mr. Chin-Nan Cheng is recognized for his persistence in quality control, which led to not only a quality design results but also an early completion of the project. The Client, Evergreen-Shimizu Joint Venture, particularly mentioned his outstanding performance in the Letter of Appreciation.	Merit Award
Chia-Chiang Chen 陳嘉疆	Structural Engineering Dept.	Structural Engineer I	As the Interface Coordinator of High Speed Rail Civil Works Contract C296, Mr. Chia-Chiang Chen is recognized for his coordination skills to ensure a smooth completion of the project. The Client, Evergreen-Shimizu Joint Venture, particularly mentioned his outstanding performance in the Letter of Appreciation.	Merit Award
Hsiu-Kang Peng 彭琇康	Structural Engineering Dept.	Structural Engineer I	As the Design and Project Manager of High Speed Rail Civil Works Contract C296, Mr. Hsiu-Kang Peng, is recognized by both the Client (Evergreen-Shimizu Joint Venture) and MAA for his exceptional leadership of the design team to complete the project.	Merit Award
Dajia-Changbin Supervision Office of Taiwan Central Second Freeway Project 中二高大甲彰濱段 監工專案	Dajia-Changbin supervision Office of Taiwan Central Second Freeway Project		The project team is recognized for the quality control, good working relationship established with the client, and the exceptional teamwork efforts that led to the smooth and timely completion of the project. The client particularly mentioned the team in the Letter of Appreciation to MAA.	Merit Award
Transportation & Civil Eng. Dept. II / Fushin North Road Underpass Project 運土二部 復北營管專案	Transportation & Civil Eng. Dept. II / Fushin North Road Underpass Project		The Transportation & Civil Engineering Department II and the Fushin North Road Airport Underpass Project team are recognized for their outstanding team efforts and quality of design and supervision for the Fushin North Road Airport Underpass project, which led to the two 2003 Golden Achievement Awards, held annually in Taiwan.	Merit Award
Yi-Ming Song 宋益明	Geomatics Department	Senior Geotechnical Engineer II	Mr. Yi-Ming Song is recognized for his responsible and results oriented attitude, efficiency, creative research, contributions to the development of Geomatics department, ability to lower cost, and ability to take the best out of co-workers.	Staff of the Year
Jun-Ming Hwang 黃俊銘	Transportation & Civil Eng. Dept. I	Civil Engineer I	Mr. Jun-Ming Hwang is recognized for his responsible attitude, record of winning projects, cost control, efficiency, all of which are often recognized by clients.	Staff of the Year

Chih-Hong Ma 馬志宏	Environmental Protection Dept.	Environmental Engineer I	Mr. Chih-Hong Ma is recognized for his responsible attitude, quality control, cost control, ability to expand the company's environmental scope of works and competitive edge, and his ability to win projects	Staff of the Year
Jaw-Shuenn Lin 林照順	Transportation & Civil Eng. Dept. II	Geotechnical Engineer I	Mr. Jaw-Shuenn Lin is recognized for his responsible attitude, proactiveness, ability to overcome difficulties. His overall working attitude and technical abilities are often recognized by clients, which as a result strengthens the company's reputation.	Staff of the Year
Jeng-Long Lee 李振隆	Electronic & Mechanical System Dept.	Electrical and Mechanical Engineer I	As the team leader for the BOT of Electronic Toll Collection System in Taiwan, Mr. Jeng-Long Lee is recognized for his leadership in integrating the team, his ability to have the team to produce quality works and maintaining the company's interests and rights, which all helped strengthen MAA's reputation. The client has praised his abilities in a number of occasions.	Merit Award
Tu-Cheng Fang 方篤誠	Geotechnical Engineering Dept.	Geotechnical Engineer II	For the Underground Safety System of AIG's Taiwan subsidiary, Nanshan Life Insurance Headquarters Building project, Mr. Tu-Cheng Fang is recognized for his exceptional hard work and responsibility to provide up to date analysis and solutions, which all together ensured a timely completion of the project. As a result, the client sent a Letter of Appreciation to MAA.	Merit Award

## ▶ LONG-YEARS SERVICE AWARDS

AWARD TYPE	COMPANY	ENGLISH NAME	CHINESE NAME	POSITION HELD
25 years service	MAAS	Kong Sio-Keong	鄺少強	General Manager
	MAAT	Yun-Yu Wang	王雲瑜	CAD Designer I and Group Leader of Drafting Group
20 years service	MAA Holding	Elsie Phiek Moy Phua		Internal Auditor
	MAAT	Chin-Yin Chiang	蔣進益	Structural Engineer I
15 years service	MAAT	Jin-Jenn Huang	黃金振	Senior Vice President
	MAAT	Ching-Hui Huang	黃清輝	Senior Engineering Geologist II
	MAAT	Kuo-Shiung Lee	李國雄	Driver
	MAAT	Ding-En Wu	吳定恩	Senior Civil Engineer II
	MAAT	Hui-Chin Lu	盧慧真	System Engineer I
	MAAT	Shu-Fen Hung	洪淑芬	General Affairs Clerk I
	MAAT	Chao-Mei Chou	周兆玫	Accountant II

AWARD TYPE	COMPANY	ENGLISH NAME	CHINESE NAME	POSITION HELD
10 years service	MAAS	Khin Maung Niang		Geotechnical Engineer
	MAAT	Chia-Feng Lu	呂嘉峰	Structural Engineer I
	MAAT	Ming-Hung Jian	簡銘宏	Driver
	MAAT	Geh-Sen Hsu	許箇森	Clerical Assistant
	MAAT	Hsiu-Kang Peng	彭琇康	Structural Engineer I
	MAAT	Kuo-Kuang Liu	劉國光	Structural Engineer I
	MAAT	Chuen-Ching Hwang	黃春卿	CADD Operator
	MAAT	An-Tai Chang	張安泰	Structural Engineer I
	MAAT	Jiin-Fa Peng	彭錦法	Senior Geotechnical Engineer II
	MAAT	Shu-Mei Lai	賴淑梅	CAD Designer III
	MAAT	Hsu-Cheng Wu	吳旭朕	Structural Engineer I
	MAAT	Shiow-Lin Tsou	鄒琇玲	CADD Operator
	MAAT	Li-Ming Chou	周立銘	Senior Civil Engineer II
	MAAT	Hsiung-Her Haw	郝祥合	CADD Operator
	MAAT	Chun-Chang Lee	李俊璋	Geotechnical Engineer I
	MAAT	Jenn-Horng Lian	連振宏	Driver
	MAAT	Shau-Heng Chiou	邱紹恆	Civil Engineer I
	MAAT	Yii-Ching Yang	楊玉井	Senior Structural Engineer II
	MAAT	Shu-Ling Hsieh	謝淑玲	Cashier I

AWARD TYPE	COMPANY	ENGLISH NAME	CHINESE NAME	POSITION HELD
5 years service	MAAT	Yaw-Wen Wang	王耀文	Driver
	MAAT	Meng-Kuan Hung	洪孟寬	Structural Engineer I
	MAAT	Ming-Hung Tseng	曾名宏	Civil Engineer I
	MAAT	Yung-Jwu Chang	張雲竹	Geotechnical Engineer I
	MAAT	Chia-Jui Lin	林佳銳	Civil Engineer III
	MAAT	Bor-Song Lin	林柏松	Civil Engineer I
	MAAT	Ming-Hsing Huang	黃明興	Civil Engineer I
	MAAT	Jun-Ming Hwang	黃俊銘	Civil Engineer I
	MAAT	Fuan-Chang Wong	翁煥昌	Structural Engineer I
	MAAT	Chung-Ren Chou	周忠仁	Geotechnical Engineer I
	MAAT	Li-Teh Yang	楊立德	Deputy Manager of Business Development Dept.
	MAAT	Win-Bin Hsu	許文斌	Senior Geotechnical Engineer I and Chief of Transportation & Civil Eng. Dept. I
	MAAT	Sheng-Wen Lin	林聖文	Civil Engineer III
	MAAT	Jeng-Long Lee	李振隆	Electronic Engineer I
	MAAT	Tian-Shyng Chen	陳天行	Mechanical Engineer I
	MAAT	Chao-Sheng Hsu	徐朝聲	Mechanical Engineer I

## PERSONNEL PROFILES

### Mr. Kwo-Kuang LIU

(劉國光)



Mr. Kwo-Kuang Liu was promoted to Senior Structural Engineer II in MAA Taiwan in January 2004. Mr. Liu is a registered Civil and Structural Professional Engineer in Taiwan with a B.S. degree in Civil Engineering from Cheng Kung University, Taiwan in 1986. He joined MAA Taiwan in 1993 after working in EBASCO-CTCI Corporation, Taiwan Power Corporation and TUNTEX Construction Corporation. During the 10 years at MAA, Mr. Liu has been involved in the structural engineering of many projects from buildings, bridges, freeways to MRT works. A few examples include the stadium of National Taiwan University, Fushin North Road Extension Tunnel under Sung Shan Airport, Chung-Tou Highway Bridge, Formosa Chemicals & Fibre Corporation's control room, Nan-Shan Life Headquarters Building, the bridge for High Speed Rail Tainan Sha-Lun station, Taipei MRT System Mu-Cha extension line, and Kaohsiung MRT System Orange Line CD1.

### Mr. I-Chou HU

(胡逸舟)



Mr. I-Chou Hu is the Laboratory Chief of MAA Taiwan, and was promoted to Senior Geotechnical Engineer II in January 2004. Mr. Hu received his Diploma from National Taipei Institute of Technology in 1988, B.S in Civil Engineering from National Taiwan Institute of Technology in 1990, and M.S. from National Chung-Hsing University in 1994. He is a registered Professional Civil Engineer and Professional Geotechnical Engineer, and is a member of Taiwan Geotechnical Society. During the years in MAA since 1991, Mr. Hu's major works include contract management, quality assurance, foundation design, slope stability analysis. Mr. Hu was involved in two sections of the High Speed Rail. From 2002 to 2003, Mr. Hu was the Project Director of Olemap, Inc. (a company that provides Internet GIS solutions and wireless location-based services) before rejoining MAA Taiwan. Over the years, Mr. Hu has written nine technical papers highlighting various geotechnical issues and experiences.

**Mr. Shao-Kuei CHEN**

(陳紹魁)



Mr. Shao Kwui Chen was promoted to Senior Geotechnical Engineer II in MAA Taiwan in January 2004. He is a registered Professional Civil Engineer, registered Professional Geotechnical Engineer in Taiwan, Quality Engineer in the Public Construction of Taiwan and a Labor Safety and Health Technician. Mr. Chen received his B.S. in Civil Engineering from Tamkang University, Taiwan in 1992 with a M.Eng. degree from National Taiwan University, R.O.C. in 1994. Mr. Chen is a member of the Chinese Institute of Engineers, Chinese Institute of Earthquake Engineers, and Taiwan Geotechnical Society. Immediately after graduation in 1994, Mr. Chen joined MAA Taiwan in the Geotechnical Department during which his major works included site investigation, foundation analysis for high-rise buildings, assessment of building protection for deep excavation, geotechnical consultancy for foundation excavation, foundation design for bridges and newland developments. Major projects include Keelung River reclamation project, Taipei MRT, Second Bangkok International Airport, Taoyuan Sewage Treatment Plant. Since 1998, Mr. Chen was transferred to the Construction Management Department and have continued to strengthen the practical experiences on site including Tam-Hai New County Development Construction Supervision Project, Chu-Tung Water Tunnel Improvement Construction Project, and lately, the two buildings at the National Taipei Nurse College, and the reconstruction of schools after 921 Chi-Chi Earthquake in Yunlin, Chiayi, and Tainan.



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