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Golden Achievement Awards for Taipei Fushing North Road Airport Underpass





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MAA Group Consulting Engineers is a multi-disciplinary consulting firm providing professional services to both private and public clients. Today, MAA Group has offices in Taiwan, Hong Kong, Singapore, Malaysia, Thailand, U.S. West Coast, and Mainland China, creating a close network in the Asian Region.

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:

Advanced Technology project Safety client's Satisfaction Economical Solution Timely Completion

ISO 9001 CERTIFICATION



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GOLDEN ACHIEVEMENT AWARDS

TAIPEI FUSHING NORTH ROAD AIRPORT UNDERPASS

Started from year 2000, the Public Construction Commission of the Taiwan ROC Government gives a series of awards for various types of construction and architecture related projects in Taiwan. In the fourth annual award ceremony held in December 2003, Moh and Associates, Inc. was awarded two special Golden Achievement Awards for outstanding engineering design and construction supervision for the Taipei Fushing North Road Airport Underpass Project. This was the first time that design was included in the award categories. More than 1,077 public works projects entered in this year's competition.



Golden Achievement Awards for Taipei Fushing North Road Airport Underpass

The Taipei Fushing North Road Airport Underpass is a very special and challenging project where a roadway underpass is constructed under and through Taipei's domestic airport without any disturbances to the airport's operation of more than 300 flights per day. A maximum settlement of 2.5 cm was successfully controlled and maintained during the construction of the 592 m roadway (with a cross section of 7.8 m by 22.2 m), in which 505 m is within the boundary of the airport. A special construction method combining pipe-roofing and segmental pull-pushing was employed.

ROJECTS APRIL 2003 – SEPTEMBER 2003

TAIPEI RAPID TRANSIT SYSTEM

he project, Design Lot DR148 of the Xin-Yi Line of the Taipei Rapid Transit System, mainly includes three underground subway stations, namely R05, R06 and R07, and a twin bored tunnel with a total length of 2.2 km. The tunnels, with a diameter of 6.1m, are designed as underground line along the Xin Yi Road Sec. 4 & 5, which is a main arterial road in Taipei City. The Station R05, named Elephant Mountain Station, is a three story underground passenger station with approximate dimensions of 200m long by 20m wide, where Station R07, named Anhe Road Station, is a two story underground passenger station with approximate dimensions of 230m long by 20m wide.

Except the R.C. structure of R06 Station, which was already designed by another engineering consulting company in order to meet the construction of the 101-story financial building, the design work include civil, geotechnical, structural and architectural aspects for station structures, and also electrical/



Entrance A of R05 Station

mechanical facilities, environmental control system, elevator and lift design for both stations and bored tunnel structures. In part of the design, Gibsin Consulting Ltd. is responsible for the electrical/mechanical design aspects while Fei & Cheng Associates is in charge of landscape and architectural design.



Entrance A of R06 Station



Prospective Sketch Drawing of Concourse Floor for R07 Station

In addition, the feasibility study of eastward extension of the Xin Yi Line originated from R05 Station plays a very critical factor in not only the further route connectivity analysis but also the existence of the supplementary R04 Station.

The design period is from April 2003 to May 2005. The construction is scheduled to start in June 2004 and to complete in December 2010.

NATIONAL UNITED UNIVERSITY



National United University Pa-Chi Campus

MAA Taiwan obtained the Project Management Consultant work entrusted by the National United University for their Pa-Chi Campus Construction Project. The scope of work includes the first phase of the 45 hectares land development, utility center and facilities, wastewater treatment plant and sewage system, campus plantation and landscape, public art construction, etc..

The service duration will be 24 months, ending by August 2005.

PROJECT MANAGEMENT FOR TAISUGAR LOGISTIC PARK

The Taisugar Logistic Park locates at the northern part of Kaohsiung International Airport. First phase of the development project includes a modern logistic center, and an air cargo terminal. This logistic Center has a total floor area of 41,000 sq.m. equipped with advanced facilities.



Taisugar Logistic Park

MAA Taiwan was engaged by the Taiwan Sugar Corporation to provide Project Management and Supervision services. The scope of work includes market survey, construction safety supervision, quality assurance, scheduling, quantity review and environmental management.

MANAGEMENT OF INTEGRATED INFORMATION CENTER FOR MASTER SPECIFICATIONS FOR PUBLIC WORKS

As a major drive toward automation, the Public Construction Commission of the ROC initiated a program to unify the technical specifications and codes used by the construction industry and to set up an Integrated Information Center. MAA Taiwan was engaged by the PCC to manage this Center with the duties of coordinating with all the editorial committees for the compilation of technical specifications and codes for site works and construction materials for civil, structural, architectural, electrical, and mechanical engineering. Also included in the scope of works is the preparation of reference design drawings, which are readily available to various agencies for minor construction works. The idea is to avoid repetition of efforts in preparation of commonly used specifications and designs of works, which are of secondary importance without serious concerns on their safety. These technical specifications and reference design drawings are managed by a web-based information system and are accessible by governmental agencies and the public as well.

DETAILED DESIGN OF EASTERN FREEWAY SINCHENG-JIAN SECTION



Detailed Design of Eastern Freeway Sincheng-Jian Section

 ${f T}$ he Eastern Freeway, from Suao in Ilan County connecting Peyi Expressway at the north of east coast Taiwan to Jian in Hualian County at the southern end has a total length of 86 km. The project is one of the 10-priority projects in the next five years in the ROC government infrastructure investment. The design of the Freeway was divided into 3 packages. Moh and Associates, Inc. was awarded the design package No. 3 in July 2003 by the Taiwan Area National Expressway Engineering Bureau, Ministry of Transportation and Communications, Republic of China, after a severe competition. The section starts from the north at SinCheng Interchange and ends at Jian interchange connecting to city road named Central Road. The total length of the design package No.3 is 14 km, of which 12.5 km is viaduct structure. In this stretch of the package, there are two interchanges, two toll stations with Administration Offices, one underpass structure for taxiway of the Air Force, and one cut and cover tunnel across a hilltop at Jian. This freeway is planned for a design speed of 100 km/hr with 2 lanes in each direction.

The Hualian County is less developed as compared to other parts of the Taiwan Island due to obstruction of the Central Mountain Range with inconvenient transportation. But in other aspect, it is the precious area still maintaining its nature and greenery, especially the fantastic scenic and geological features. In order to maintain a low impact to the environment due to the development of a viaduct structure running along the green belt, delicate study and considerations are given to the sustainable development in various aspects such as selection of the route alignment and profile, materials for the structure, the ecological system, aesthetic of the structure, etc.. The budget for this 14 km project is around 8 billions New Taiwan Dollars (about 240 million US dollars). The design work commenced in July 2003 and will be completed in September 2004. Construction of this section will begin in the third quarter of 2004.

STUDYONADRAFT OF TECHNICAL SPECIFICATIONS FOR SYSTEM INTEGRATION FOR MRT SYSTEM DEVELOPMENT

he main goal of the Mass Rapid Transportation (MRT) System is offering a transportation service with safety, convenience, reliability, efficiency and comfort. Based on the engineering categories, the MRT System can be devided as Civil, Architecture, Tracks and E & M System (EMU, Signal, Power Supply, Communication, Elevator/Escalator, Auto Fare Collection, ECS, Plumping & Drainage, Depot, PSD, etc.). Though each system suppliers should be responsible for the fabrication, installation and testing of their own, the interfaces, reliability and safety of each system need to be carefully coordinated to insure overall functions of the MRT System. The project study will draw up the draft of interface contents, coordination during design, construction, testing phases and the procedure of integration management. The operation of system assurance and guideline of verification will be drawn up at the same time to control and eliminate potential risks.

According to the regulation of bidding announcement issued by the Ministry of Transportation and Communications (MOTC), this project will be conducted in two years. The study of interfaces between Civil and E & M System will be conducted during the first year, while the study for the following year will focus on system integration, testing operation, reliability and maintainability. By offering high quality of consultancy, Moh and Associates, Inc. is forming a project team that is run by specialists covering Civil, Architecture, Structure, Mechanical, Electrical and Environmental Control.

MAPPING GEOLOGICAL HAZARDS FOR HILL SLOPES IN CENTRAL TAIWAN – PHASE 2

As part of the national hazard mitigation program, the Central Geological Survey of Taiwan, ROC initiated a 5-year project to compile information relating to environmental geological hazards, including debris flows, rock falls, landslides, erosions, abandoned mines and cavities, etc., into a GIS system so the development of hill slopes can be better regulated and managed. The study area in the second year covers 400 maps of 1/5,000 scale in central Taiwan, or about 2,820 sq km, including Taichung City, Taichung County, Changhua County, Miaoli County and Nantou County.



Susceptibility Map of Geological Hazards

Environmental Geological hazards are identified by studying aerial photos and confirmed by field reconnaissance. Historical events are studied and documented. Software modules are developed to identify potential susceptibility areas of geological hazards based on geographic factors, such as gradient and surface runoff, and geological factors, such as the characteristics of rock mass, faults, dips and strikes, etc.

CONDOMINIUM DEVELOPMENTS IN SINGAPORE

M/s Moh and Associates (S) Pte Ltd was engaged by the Structural Consultants, M/s KTP Consultants Pte Ltd on behalf of the Developers, M/s Lucky Pinnacle Pte Ltd, M/s Pencroft Investment Pte Ltd and M/s Sherwood Development Pte Ltd to provide geotechnical consultancy services including soil investigation works with regard to the foundation system and excavation work for three condominium development projects at Gopeng Street (The ICON), Lengkong Tiga (The STARVILLE) and Meyer Road (The VIEW POINT), respectively.



The Icon Development at Gopeng Street

The ICON Development comprises two residential blocks of 41 and 46-storey located within the decomposed Siltstone formation at the Central Business District of Singapore. The STARVILLE Development comprises 5 blocks of 12-storey condominium development with provision of a basement carpark located in erratic ground consisting of Alluvial Member (e.g. soft marine clay/organic clay) and Old Alluvium (e.g. very dense Clayey Sand). The VIEW POINT Development comprises two blocks of 25-storey condominium with one basement carpark located in very thick soft marine clay at the east coast of Singapore.

Due to the existence of complicated geological formation and heavy foundation loads and possible construction difficulties associated with soil movement, downdrag and uplift effects, stringent control of site investigation works and comprehensive study of the engineering characteristics of subsoils and foundation recommendations are needed for the substructure design of these projects.

NEW CITY CAMPUS OF LASALLE-SIA COLLEGE OF THE ARTS SINGAPORE

M/s LaSalle-SIA College of the Arts is planning to develop a new city campus at the existing HDB flat sites in the downtown of Singapore. The proposed development comprises of six (6) blocks of 5-storey buildings with roof levels and 2 levels of basement covering the entire site area. The project site is located near the Rochor Canal and bounded by Prinsep Street on South, Albert Street on East, Short Street on North and HDB flats on West where construction difficulties associated with the existence very thick soft marine clay and shallow groundwater table are encountered.



New City Campus of Lasalle-Sia College of the Arts

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

CATHAY BUILDING REDVELOPMENT SINGAPORE

M/s Cathay Building 2002 Pte. Ltd is planning to redevelop the existing Cathay Building site at Handy Road into a mixed development comprising part 8-storey and part 17-storey entertainment and shopping complex with apartment units and one basement level. The proposed project site is located in the Central Business District of Singapore and bounded by Mount Sophia Road on the North, Handy Road on Southwest and Kirk Terrace on Southeast. The most significant aspect of the site and subsoil conditions of the project is the requirement of a proper retaining system for supporting the huge vertical cut (~25m) along Sophia Road boundary and the presence of hardcore, underground obstruction and weak to strong, moderately to highly fractured, moderately to completely weathered Sandstone mixed with very hard Sandy Clay and very dense Clayey Sand (Fort Canning Bouldery Bed) and its erratic distribution.

M/s Moh and Associates (S) Pte Ltd was engaged by the Engineer, M/s T. Y. Lin Southeast Asia Pte Ltd., on behalf of client to provide geotechical engineering services including soil investigation works with regard to the raft foundation scheme and retaining system of the proposed redevelopment.

COASTAL TOWER, PENANG, MALAYSIA

Located on the coastal front of Tanjung Bungah Town, Penang, Coastal Tower is another project by the developer M/s Taman Ratu Sdn. Bhd. and is currently under construction. The project consists of 2 blocks of 32-storey RC building (5-storey podium, 27-storey twin towers) supported by combination of caisson and pad foundation on granitic rock formation. The construction of the superstructure commenced in March 2003 and is scheduled to complete in March 2004. Moh And Associates (M) Sdn. Bhd. is the consulting engineer responsible for the design and construction supervision of the foundation, structure, internal plumbing and sanitary and associated ancillary works for the building.



Coastal Tower Under Construction

THE HAMPTON CONDOMINIUM PROJECT



The Hampton Condominium Project

MAA Thailand was recently awarded by Major Development Co., Ltd. for the construction supervision and management of a luxury condominium located at Soi Thonglor 10 of Sukhumvit Road, Bangkok. The Hampton Thonglor 10 project will comprise a 30-story condominium tower accommodated for 73 suites and 3-sublevel car parking for 120 cars with a total floor area of 23,000 sq. m. Other facilities include 5-star hotel standard waiting lobby, full-equipped indoor fitness center, swimming pools, business center, library, cliff-climbing wall, children playground and pebbled path gardens, etc. Structure of the building is reinforced concrete cladding with precasted concrete panel supported by 55 m long bored piles. Total construction cost will be about 400 million Thai Baht (\$10.2 million dollars). The building construction was commenced in October 2002 and is expected to be completed in two years. MAA Thailand is responsible for the tendering process, field construction supervision and contract management.

PROJECTS OF SECOND BANGKOK INTERNATIONAL AIRPORT (SUVARNAPHUMI AIRPORT)

AA Thailand recently won again on four major contracts related to the construction of the Second Bangkok International Airport (SBIA), which include two construction supervision contracts awarded by the New Bangkok International Airport Co., Ltd. (NBIA) for Airfield Pavements and Landside Road System and two detailed design contracts awarded by the Thai Airway International Public Company for Cargo Terminal and Ground Support Equipment (GSE) Buildings. In the past, MAA Thailand together with MAA Taiwan had been awarded several contracts including the design of Landside Road System (including ground improvement work), construction supervision of Ground Improvement Phase I (West Runways/Taxiways, Apron and Emergency Roads) and Phase II (East Runway/ Taxiways and Landside Road System).



Ground Support Equipment Buildings

A total of five projects will be constructed by the Thai Airway International Public Company at the SBIA site. MAA Thailand won the first two detailed design contracts as the leading firm jointed by PCI International of Japan and two others local consulting firms. The Cargo Terminal with total floor area of 150,000 sq m will have three major structures including international & domestic cargo terminals, and a 4-story office & maintenance center to be able in handling a total of one million tons international cargo and 100,000 tons domestic cargo per year. The project also includes the design of cement column to be applied on about 21,000 sq m interfacing area between domestic cargo terminal and cargo apron. The GSE Complex will have seven major structures including three 3-story office buildings, one 10-story car park building, one 2-story cafeteria and audition building, and three one-story workshop & maintenance centers with a total floor area of 90,000 sq m. Other facilities including at-grade parking and internal roads with total area of 27,000 sq m will be improved by using cement columns to reduce the post-construction settlement. The scope of services covered the design of foundation, civil, architectural, mechanical, electrical and landscaping engineering works associated with tendering document preparation. Total construction cost of the Cargo Terminal and GSE Building is expected to be 2.5 billion Baht (63 million US dollars) and 1.2 billion Baht (33 million US dollars), respectively. Both contracts were commenced in February 2003 for a total of eight months of design period.



Cargo Terminal Buildings



Airfield Pavement and Landside Road System

The Airfield Pavement construction will include flexible and rigid pavement structures for two 3,700 and 4,000 m long Runways, a total of 26 km long Taxiways and 1,000,000 sq m of Apron and Aircraft Stands. Other facilities will include 40 km long main and secondary drainage canals, 10 km long main drainage culverts, 7,200 airfield ground lights, 93 visual docking guidance points, 92 high mast and 4 AGL buildings. A total of 250,000 cu m Pavement Quality Concrete (PQC), 1,490,000 cu m Cement Treated Bases (CTB), 450,000 cu m Sand-Cement Base and 600,000 cu m asphaltic concrete will be used in the project. MAA Thailand together with MAA Taiwan joined with four international/local consulting firms were awarded for the supervision contract. The construction

work was commenced in June 2003 and will be completed in August 2005 with total construction cost of 7.5 billion Baht (190 million US dollars).

The Landside Road Systems are divided into 4 separate construction packages including:

- A total of 3.4 km long, 4-lane divided Passenger Terminal Elevated Access;
- A total of 27 km long, 2 to 6 lanes divided At-Grade Roads associated with two 600 m long approach bridges and 140,000 sq m car parking area;
- A total of 500 m long, 12 m wide and 5 m deep Airside Road Tunnel; and
- Landscaping work of all public access roads and 24 km long Polder Dike around the project site.

The construction work was commenced in December 2003 and will be completed in December 2005 with total construction cost of 3.5 billion Baht (89 million US dollars). MAA Thailand joined with Nippon Koei of Japan and TESCO of Thailand were awarded for the supervision contract.

ROFESSIONAL ACTIVITIES

LETTERS OF APPRECIATION

TAIWAN HIGH SPEED RAIL PROJECT

Award: Letter of Appreciation

From: THSR C296 Evergreen-Shimizu Joint Venture Date: September 2003



A Letter of Appreciation was given by Evergreen-Shimizu Joint Venture to Moh and Associates Inc., Taiwan, for the successful design completion of THSR C296 Project. Several special recognitions were made by the JV client to MAA Taiwan individuals for their outstanding performance including: Design Manager Dr. P.Y. Huang, Quality Assurance Manager Mr. C. N. Cheng, and Interface Coordinator Mr. C. C. Chen.

Award: Letter of Appreciation

From: THSR C270 Bilfinger & Berger and Continental Engineering Corp. Joint Venture

Date: January 2003



A Letter of Acknowledgement was given by Bilfinger & Berger and Continental Engineering Corporation Joint Venture to Moh and Associates Inc.'s project management team, for the efforts in supporting the JV to achieve the best solution for STU design in DU3.02. MAA Taiwan serves as the Contractors Independent Checking Engineer for this project.

Award: Letter of Appreciation

From: THSR C260 & C270 Bilfinger & Berger and Continental Engineering Corp. Joint Venture Date: April 2002

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A Letter of Appreciation was given to Moh and Associates Inc. by the JV client to commend MAA's professional efforts to promote teamwork among all parties to achieve an economical design for a safe and fast construction of the two projects. In particular the JV client commended Project Manager Mr. Chung Ho (Robert) Chiao and Mr. Chu-Zu Lin for their efforts. MAA Taiwan serves as the Contractors Independent Checking Engineer for both of the projects.

THE SECOND FREEWAY Da Chia – Chang Ping Section at Nantou, Taiwan

Award: Letter of Appreciation

From: Ministry of Transportation and Communications, Taiwan Area National Expressway Engineering Bureau Date: April 2003

工程編問錄發有限公司 21.10 培补着大甲引消役及南援路 工物開以非常之後衛 我勤勉之思度,使各档工程及 成過來日標、運中溝抗 交通非白男翁 局長 野文隆

he Taiwan Area National Expressway Engineering Bureau of the Ministry of Transportation and Communications of Taiwan awarded Moh and Associates, Inc. a Plaque of Appreciation for quality engineering performance, professional attitude, and the success of a timely completion of the project.

PROFESSIONAL SOCIETIES

Between October 2003 and January 2004, several professional societies in Taiwan held election of new officers. Dr. Za-Chieh Moh was elected to the following posts:

- Chinese Institute of Civil & Hydraulic Engineering, Vice President, 2003 – 2005
- China Road Federation, Vice President, 2003 2005
- Chinese Association of Engineering Consultants, Vice President, 2004 – 2006

 Taipei Federation of Engineering Consultants, Executive Supervisor, 2004 – 2006

Dr. Za-Lee Moh was elected to the post of Executive Supervisor of the Chinese Association of Engineering Consultants, 2004-2006.

Dr. Za-Chieh Moh attended the 2003 General Committee meeting of the Southeast Asian Geotechnical Society on 4th August in Singapore.

On 1st September 2003, Dr. Za-Chieh Moh has been registered as an APEC Engineer and also EMF Engineer in the disciplines of civil, geotechnical engineering by the APEC Engineer Monitoring Committee and EMF Monitoring Committee respectively in Hong Kong, China.

12TH ARC

he 12th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering was held from 4th to 8th August 2003 in Singapore. The Conference was organized by the Southeast Asian Geotechnical Society, the National University of Singapore and the Nanyang Technological University. The five-day conference was attended by more than 400 participants from 31 countries. Dr. Za-Chieh Moh delivered a keynote lecture on Geotechnical Issues in Design and Construction of Viaducts of the Taiwan High Speed Rail. Dr. Moh also took part as a panelist in the Discussion Forum on Geotechnical Consultancy sponsored by the ATC 11 of the ISSMFE.

Also attending the Conference from the MAA Group included Dr. C.T. Chin, Dr. Daniel Yao, Mr. Shaw-Wei Duann from Taiwan, Mr. Y.M. Ho from HK and Mr. S.K. Kong from Singapore.

HONOR

On 29th May 2003 at the occasion of her 50th anniversary, the Japanese Geotechnical Society nominated Dr. Za-Chieh Moh as a permanent Honorary Member of the Society in recognition of his long term contribution to the development of geotechnical engineering, education and geotechnical society. Dr. Moh was invited to receive the honor at a special ceremony held at the headquarter of the JGS in Tokyo on 25 July 2003.

SEMINAR



CROSS-STRAIT SEMINAR ON HIGHWAY TECHNOLOGY

On 22 August, 2003, a delegation from the Chinese Highway Society (Beijing) led by Mr. Kuo-chien Chen, leader of the delegation, made a visit to MAA Taipei Office. The delegation was invited by the China Road Federation (Taipei) to participate a highway engineering technology exchange workshop from 20 August, 2003 to 26 August, 2003. The guests were cordially welcomed by Dr. Za-Lee Moh and Dr. Za-Chieh Moh along with the senior staff of MAA. A video presentation on MAA's history and activities was made and a slide presentation of MAA's involvement in the ETC program was made by Mr. Steve Wang. Ideas on highway design and improvement were brought and discussed during the session.

BUILDING & CONSTRUCTION AUTHORITY OF SINGAPORE (BCA) SEMINAR

Mr. Sio-Keong Kong, General Manager of MAA Singapore was invited by the Building & Construction Authority of Singapore (BCA) to deliver a talk on Application of Geotechnical Instruments for Safety Control in Basement Construction Works in the BCA Seminar on Avoiding Failures in Excavation Works conducted on 11, 24 & 29 July 2003 in Singapore.

CONFERENCES, SEMINARS, AND OTHER MEETINGS

SEMINAR DESCRIPTION	SPONSORSHIP	LOCATION	START DATE	END DATE
Public Construction Quality Management Training	National Taipei University of Technology	Taipei	06/04/2003	31/05/2003
Seminar on Ecological Engineering Techniques	Directorate General of Highways, MOTC	Taipei	14/04/2003	14/04/2003
The Fundamental of Law Course	Veracity Foundation of Legal Studies	Taipei	14/04/2003	26/05/2003
The Study and Implementation of the Labor Law	China Productivity Center	Taipei	17/04/2003	17/04/2003
Seminar on Alternative Implementation Method	Value Management Institute of Taiwan	Taipei	18/04/2003	18/04/2003
Technical Annual Report for the Year 2002	Taiwan Construction Research Institute	Taipei	23/04/2003	23/04/2003
Conference on Sustainable Development Technology	Chinese Institute of Civil and Hydraulic Engineering	Taipei	24/04/2003	25/04/2003
Natural Ecological Construction Method Practical Training Class	Taiwan Construction Research Institute	Taipei	26/06/2003	27/06/2003
Training of Presentation Skill	Chinese Association Public Relation Management	Taipei	27/06/2003	27/06/2003
Seminar on Implementation of Taipei Water and Soil Conservation	Dept. of Economic Development, Taipei City Government	Taipei	08/07/2003	08/07/2003
Operate Safety in Narrow Space	Bureau of Labor, Taipei City Government	Taipei	10/07/2003	10/07/2003
Conference on Computer Applications in Civil & Hydraulic Engineering	Chinese Institite of Civil and Hydraulic Engineering	Taipei	11/07/2003	12/07/2003
ISO-17025 Quality Management of LAB	GeoInfo Scientek Consultant, Inc.	Taipei	17/07/2003	18/07/2003
Public Construction Quality Management Training	China Productivity Center	Taipei	22/07/2003	09/09/2003
EPC & D/B Contract Modle and Risk Management	Sinotech Engineering Consultants, Inc	Taipei	22/07/2003	22/07/2003
Frame & Application of Public Construction Codes	Taiwan Construction Research Institute	Taipei	25/07/2003	27/07/2003
Symposium on PCCR-System	Public Construction Commission, Executive Yuan	Taipei	28/07/2003	28/07/2003
Seminar on Practice and Innovation of Natural Ecotechnology	The Soil and Water Conservation Bureau, COA, Executive Yuan	Taipei	29/07/2003	29/07/2003
12th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering	Southeast Asian Geotechnical Society, National University of Singapore and Nanyang Technology University	Singapore	04/08/2003	08/08/2003
2003 Taiwan Water Congress	Water Resources Agency, Ministry of Economic Affairs	Taipei	15/08/2003	15/08/2003
2003 Professional Workshop on Environmental Impact Assessment	Taiwan Environmental Management Association	Taipei	21/08/2003	22/08/2003
2003 Corrosion Congress and Annual Conference	Corrosion Engineering Association of The Republic of China	Kaohsiung	21/08/2003	22/08/2003
Conference of Ecological Engineering of Germany	Public Construction Commission, Executive Yuan	Taipei	22/08/2003	22/08/2003
Symposium of Stone Matrix Asphalt and Drainage Asphalt Pavement	Chinese Institute of Civil and Hydraulic Engineering	Taipei	25/08/2003	25/08/2003
Fire Prevention Management Re-Training Class	China Productivity Center	Taipei	25/08/2003	25/08/2003
Hi-Tech Management Training Class-Basic Level	Takming College	Taipei	25/08/2003	17/09/2003
Seminar on Nondestructive Testing Technique of Civil Engineering-Measuring and Application of Ground Penetration Radar	Chinese Institute of Civil and Hydraulic Engineering	Taipei	28/08/2003	29/08/2003

SEMINAR DESCRIPTION	SPONSORSHIP	LOCATION	START DATE	END DATE
13th Sewerage and Sustainable Water Environmental Workshop	Taiwan Water Environmental Association	Taipei	29/08/2003	29/08/2003
2003 Taiwan Water Congress	Water Resources Agency Ministry of Economic Affairs	Taipei	01/09/2003	01/09/2003
2003 About Sewer System Trades Related to Technicians B Class of Wastewater Factory Operation & Maintenance Test in Supervise Study	Central Region Office, Council of Labor Affairs, Execative Yuan	Taipei	03/09/2003	04/09/2003
Computer Appraisal System for Construction Budget	China Engineering Consultants, Inc.	Taipei	04/09/2003	05/09/2003
2003 Workshop on Taiwan Earthquake Loss Estimation System	National Central for Research on Earthquake Engineering	Taipei	05/09/2003	05/09/2003
Seminar on Private Participation in RN Infrastructure	Taiwan Construction Research Institute	Taipei	16/09/2003	17/09/2003
Conference on Improvement in Tunnel Excavation Work	Sinotech Engineering Consultants, Inc	Taipei	16/09/2003	16/09/2003
Landfill Restoring Technology Meeting	Environmental Protection Administration, Executive Yuan	Taipei	17/09/2003	17/09/2003
2003 International Balanced Scorecard Conference	China Productivity Center	Taipei	18/09/2003	19/09/2003
Seminar on Implementation of Turn-Key or Most Advantages Bid Project for Public Works	Chinese Institute of Civil and Hydraulic Engineering	Taipei	18/09/2003	19/09/2003
Public Relation Official Professional Training Class	Tam-Kang University	Taipei	19/09/2003	14/11/2003
17th Conference of Sino-Geotechnics Special Deep Excavation Technique	Sino-Geotechnics Research and Development Foundation	Taipei	19/09/2003	19/09/2003
Seminar on Special Deep Excavation Technigues	Sino-Geotechnics Research and Development Foundation	Taipei	19/09/2003	19/09/2003
Environment Impact Assessment Seminar	Resource and Environmental Protection Foundation	Taipei	19/09/2003	19/09/2003
International Seminar of the Climate Changing and Environment Fundamental Law	Taiwan Environmental Management Association	Taipei	23/09/2003	23/09/2003
Seminar on Practice of Sewerage Engineering & Trenchless Technology	Taiwan Sewerage Association	Taipei	26/09/2003	26/09/2003
Seminar on Contract for Tunneling Engineering and Professional Insurance	Chinese Taipei Tunnelling Association	Taipei	26/09/2003	26/09/2003
Third International Conference on Current and Future Trends in Bridge Design, Construction and Maintenance	Institute of Civil Engineer,UK	Shanghai	29/09/2003	01/10/2003

TECHNICAL PUBLICATIONS

KONG, S.K., (2003), "Application of Geotechnical Instruments for Safety Control in Basement Construction Works", BCA Seminar on Avoiding Failures in Excavation Works, Building & Construction Authority, 11, 24 & 29 July 2003, Singapore.

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ERSONNEL MOVEMENTS

► NEW APPOINTMENTS

ENGLISH NAME	CHINESE NAME	TITLE	DEPARTMENT	EFFECTIVE DATE
Jinn-Cheng Chang	張 晉 誠	Technician I	Kaohsiung Office	01/04/2003
Yu-Ling Chen	陳毓麟	Civil Engineer II	Transportation & Civil Engineering. Dept. II	14/04/2003
Chien-Chih Chow	周 建 至	Environmental Engineer II	Environment Protection Dept.	21/04/2003
Wen-Huan Chang	張 文 奐	Structural Engineer II	Kaohsiung Rapid Transit Project	30/04/2003
Hong-I Huang	黃 宏 益	Civil Engineer III	Transportation & Civil Engineering. Dept. I	09/05/2003
Han Wang	王 涵	Senior Programmer	Information Center	12/05/2003
Shu-Chin Weng	翁淑卿	Civil Engineer II	Geomatics Dept.	13/05/2003
Chung-Tien Chin	秦中天	Vice Persident	Geotechnical Engineering Dept.	19/05/2003
Fu-Sheng Teng	鄧 福 勝	Structural Engineer II	Structural Engineering Dept.	02/06/2003
Wen-Ru Chuang	莊 雯 茹	Environmental Engineer II	Environment Protection Dept.	16/06/2003
Charng-Chi Lee	李長祺	Environmental Engineer I	Environment Protection Dept.	17/06/2003
Yi-Hsuan Lee	李怡萱	Art Designer	Information Center	01/07/2003
Karen Chiu	邱 詩 媛	Clerical Assistant	Administration Dept.	03/07/2003
Han-Ke Chen	陳 漢 克	Environmental Engineer II	Environment Protection Dept.	14/07/2003
Chih-Hsian Huang	黄志賢	Messenger	Administration Dept.	24/07/2003
I-Chiun Liu	劉怡君	Technician	Kaohsiung Office	04/08/2003
Kai-Jung Chen	陳 凱 榮	Civil Engineer II	Geomatics Dept.	11/08/2003
Hsiao-Chin Tseng	曾孝 欽	Geotechnical Engineer II	Geotechnical Engineering Dept.	12/08/2003
Hhiao-Han Wu	吳 筱 寒	Geotechnical Engineer II	Geotechnical Engineering Dept.	18/08/2003
Chih-Wei Lu	盧之偉	Geotechnical Engineer I	Geotechnical Engineering Dept.	25/08/2003
Wen-Bin Ju	朱文彬	Civil Engineer II	Geomatics Dept.	01/09/2003
Han-Ting Lo	駱漢鼎	Geotechnical Engineer II	Geotechnical Engineering Dept.	01/09/2003
Jan-Rong Chen	陳趙榮	Civil Engineer II	Transportation & Civil Engineering. Dept. I	01/09/2003
Yih-Jer Lan	藍 毅 哲	Senior Technician	Information Center	01/09/2003

ENGLISH NAME	CHINESE NAME	TITLE	DEPARTMENT	EFFECTIVE DATE
Da-Chin Sun	孫 大 慶	Trainee	Geomatics Dept.	01/09/2003
Chia-Lun Ho	何佳倫	Structure Engineer II	Structural Engineering Dept.	15/09/2003
Kuei-Jung Lin	林貴榮	Senior Civil Engineering II	Construction Management Dept.	22/09/2003

PROMOTIONS

ENGLISH NAME	CHINESE NAME	DEPARTMENT	FROM	то	EFFECTIVE DATE
Gwo-Jenn Liu	劉 國 鎮	Construction Management Dept.	Geotechnical Engineer I	Senior Geotechnical Engineer II	01/04/2003
Wei-Dong Wang	王偉棟	Electric and Mechnical System Engg. Dept.	Senior Engineer II	Senior Engineer II and Deputy Manager of Electronical and Mechnical System Dept.	16/05/2003
Hui-Yuan Chang	張 暉 苑	Structural Engineering Dept.	Senior Structural Engineer II	Senior Structural Engineer II & Technical Manager	16/05/2003
Chin-An Lee	李 謹 安	Geotechnical Engineering Dept.	Technician I	Senior Technician	01/08/2003
Win-Sen Lin	林文盛	Construction Management Dept.	Senior Civil Engineer	Senior Civil Engineer II & Technical Manager	16/09/2003

ERSONNEL PROFILES

Mr. Wei-Dong WANG (王偉楝)



Mr. Wei-Dong Wang (王偉棣), Senior Engineer II in MAA Taiwan was appointed as Deputy Manager of the Electric & Mechanical System Engineering Department of the company in May 2003. Mr. Wang,

a graduate in mechanical engineering of the Chung Yuan University in 1980, and a Registered Professional Engineer in Refrigeration and Air Conditioning in the ROC, specializes in HVAC system design. He had been involved in system design and construction management for many important projects including the China Trust Headquarter and Concert Hall, and Shin Kong Life Insurance Building, etc. Before joining MAA in 1999, Mr. Wang has worked for Carrier Engineering Co., ABB Taiwan and Excel Air Condition Co.

Mr. Gwo-Jenn LIU(劉國鎮)



Mr. Gwo-Jenn LIU (劉國鎮), a Registered Professional Geotechnical engineer in ROC, obtained his M. Eng. Degree in Geotechnical Engineering from the National Cheng Kung University in 1987. He joined MAA Taiwan in 1989

immediately after completion of military service. During the 14 years at MAA, Mr. Liu was involved in many geotechnical related projects including site investigation, analaysis and design of building foundations, slope stability, deep excavations and underground MRT works.

In the past four years, Mr. Liu has been heavily involved in construction management work including the tallest county government building (the Taipei County Administration Building) and construction of the Taiwan Branch of the Central Library. Mr. Liu was promoted to Senior Geotechnical Engineer II in April 2003.



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