



MAA Bulletin

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MAA Group Consulting Engineers

TAIPEI KAOHSIUNG HONG KONG SINGAPORE PENANG
LOS ANGELES BEIJING SHANGHAI BANGKOK



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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 from Taiwan to 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:

project **A**dvanced Technology
client's **S**afety
Satisfaction
Economical solution
Timely completion

ISO 9001 CERTIFICATION



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MOVING NEW OFFICE

MAA TAIWAN MOVED INTO NEW OFFICE

After 6 months working in a congested temporary office at Hone Shee Building, MAA Taiwan moved to a new office located in the business center of Taipei on 19 November 2001. The new office occupies three and half floors with a total floor area of about 3,483 sq.m. The simple but elegant interior was designed by SURV under the leadership of Alexander Moh. Design and construction with complete renovation were completed in 50 days under the tight timetable requirement of MAA.

At the new office, every technical staff is equipped with a latest model PC plus LCD screen. Backup system for all important information has been established with additional server located in different buildings.

A thank-you reception for clients, friends and supporters to the MAA Group was held in the afternoon of 20 December 2001 to express our sincere appreciations to all the assistances and encouragements received after the fire crisis.



PROJECTS OCTOBER 2000 - MARCH 2001

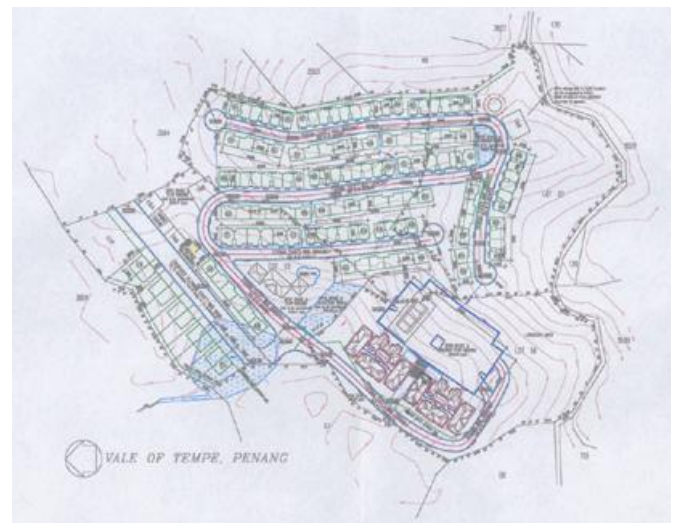
New *Hi-Tech Industrial Parks in China*

Global Strategic Investment Fund, an international investment organization devoted in hi-tech sector will develop three science-based industrial parks in Songjiang of Shanghai, Wuxi and Kuenshan of Jiangsu Province in China. Development of these parks will be implemented by joint-ventures formed between the Global Strategic Investment Fund and local government agency. Planned site area is around 250 hectares in each park with parcel size of 3 hectares. All three parks with location of excellent accessibility will also have the most advanced infrastructure system including wide-band IT network. A Flagship Building to house the service center integrated with government administration, rental offices, incubators and commercial amenities will be built at the gateway of each of these parks. Canals, waterways and typical terrain features in the region are carefully preserved with minimum man-made treatment to provide graceful landscape compatible with the hi-tech image. MAA International is employed by the joint-ventures to provide design services of development works including infrastructures and the Flagship Building based on the master plan prepared by Nikken Sekkei from Japan. ■

New *GIS of Taiwan Gas Pipelines*

To support safety management of the susceptible gas pipelines all over Taiwan, the Energy Committee of the Ministry of Economic Affairs launched a 3-year project to establish a geographical information system for these pipelines. MAA Taiwan was engaged by the Committee to supervise fieldwork and development of geographical information system performed by China Petroleum Corporation for the captioned project in its second-year term. Fieldwork of the project is to identify the location and verify the specifications of gas pipelines by means of ground penetration radar, metal detector and topographical survey.

Total length of the pipelines in this term is 1,200 km, belonging to eight gas companies. Data collected from fieldwork will be put into computer loaded with the geographical information system developed for the project. Independent spot check will be performed over the fieldwork to ensure the accuracy of the information system. The service was started in May 2001 and is expected to complete by April 2002. ■



Town Houses and Condominium

New *Town Houses and Condominium, Penang*

Vale of Tempe, a 20-acre (8 ha) hill land located at Tanjung Bunga, Penang, Malaysia has been planned for the development of some 300 units of 3-4 storey town houses and two blocks of 20-storey condominium consisting of 320 units of apartments, and club house facilities. The buildings are being planned over carefully formed hilly terrain enabling panoramic view of the coastal front of Tanjung Bungah. Moh and Associates (M) Sdn. Bhd. is a member of the design team appointed by the developer, M/s Qurozor Resources Sdn. Bhd. and is responsible for the design of the geotechnical, civil and structural parts of the project. The total cost of the development is estimated at USD 16 million. ■

New *Proposed Developments for CDL in Singapore*

M/s City Developments Ltd (CDL) is planning to develop a new site at Ang Mo Kio Ave. 6/9 for Executive Condominium and to re-develop the existing Garden Hotel at Balmoral Road for residential use and existing factory site at Paya Lebar Road for industrial use. The proposed development at Ang Mo Kio comprises 5 residential blocks (17/18 storey) with basement car parks, tennis court, double storey multi-purpose hall cum club house, etc. The proposed redevelopment of Garden Hotel comprises two (2) blocks of 12-storey residential building with a basement carpark and other ancillary facilities. The proposed industrial development at Paya Lebar Road comprises a 8-storey building with a basement carpark. The Project Engineers for the residential development and industrial development projects are M/s KTP Consultants Pte Ltd and M/s Meinhardt (Singapore) Pte Ltd. Moh and Associates (S) Pte Ltd was engaged by the Engineers on behalf of Client to provide geotechnical consultancy service including soil investigation work with regard to foundation system and basement construction works of the proposed projects. ■

New *Proposed 1000 -Unit Student Housing for NUS*

The National University of Singapore (NUS) is planning to develop 1000 Units of Student Housing over a sloping ground site at Heng Mui Keng Terrace within the Kent Ridge Campus of NUS. Erratic terrain and geological formation are found and massive earthworks consisting of cut slopes and retaining walls are required in the design. Moh and Associates (S) Pte Ltd was engaged by the Project Engineer, M/s PWD Consultants Pte Ltd on behalf of Client to provide geotechnical consultancy services including soil investigation work with regard to the foundation system, retaining systems and slope stability of the proposed development. ■

New *Polyester Plant in Chonburi, Thailand*

Thai Polyester Co., Ltd. plans to develop a 400 ton/day polyester plant in Chonburi, Thailand. The plant will consist of poly condensation plant, POY, FDY, Spinning Line, intermediate storage, warehouse, PTA silos, HTM plant, tank farm, utility building, general workshop, etc. with total floor area of more than 60,000 sq.m. This plant will be the biggest polyester plant in Thailand.

MAA Thailand office was engaged by the owner for master plan design, detailed design and construction supervision and management of the project. Total construction cost is about 500 million Baht (about USD 12 million). The project started in June 2001 and will be completed by May 2003. ■

New *Construction Supervision Consultancy Service for Ground Improvement - Phase 2 for the Second Bangkok International Airport*

MAA Thailand office was engaged by the New Bangkok International Airport Co., Ltd. (NBIA) for construction supervision consultancy service for Ground Improvement Phase 2 of the Second Bangkok International Airport in Thailand. This contract consists of ground improvement with PVD for east runway and taxiway, and cargo apron with total area of about 1,100,000 sq.m., and landside roads with total length of about 32 km. Total construction cost is about 5,000 million Baht (about USD 120 million). The work started at the beginning of year 2001 and will be finished by Year 2003. ■

New *Intermodal Study for the MRT Blue Line Project, Thailand*

MAA Thailand office was engaged by the Mass Rapid Transit Authority of Thailand (MRTA) for study and design of intermodal transfer facilities and station area development for the MRT blue line in Bangkok, Thailand. All of the 35 stations will be studied with preliminary design. Eight priority stations will be selected for further detailed design. The project is undertaken in collaboration with Mouchel International of U.K. ■

New *Kaohsiung Jian-Gou Bridge*

Reconstruction of the Kaohsiung Jian-Gou Bridge is now underway and due for completion around the time of Chinese lantern Festival in February 2002. It is destined to be the main traffic arterial bridge of Kaohsiung City as well as a major tourist attraction.

The new Jian-Gou Bridge adopts four span steel structural design. The bridge length is 90 meter long, with flamingo as the main artistic theme including a number of creative designs, such as the rainbow water fountain.

The reconstruction project was undertaken by Moh and Associates, Inc. including planning, design and construction supervision. The total duration of this project is three and a half years at a cost of approximately USD 4.5 million. ■



Jian-Gou Bridge at time of reconstruction

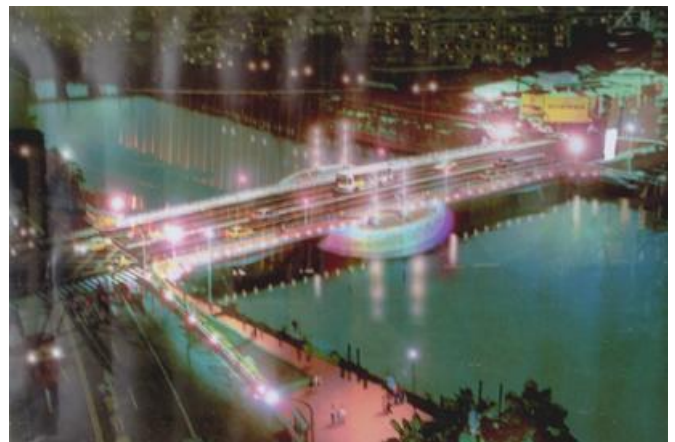


Hsinchu Living District

New *Ke-Ya Streamside Road in Hsinchu Living District*

To meet the future demand and anticipated traffic condition of the Hsinchu Living District, the Hsinchu City Government undertook the design and construction of the “Ke-Ya Streamside Road”. The road will have a total length of 3.7 km which includes 1.2 km of bridge section, 176 meters of underground roadway section and 2.3 km of embankment section. The construction will take about 30 months with estimated total cost at NTD 1.3 billion dollars (approximately USD 37 million).

Moh and Associates, Inc. was commissioned by the Hsinchu City Government in December 2000 to undertake the engineering design, survey, EIA, soil and water conservation, and other related works for the project. ■



Artist's View of Jian-Gou Bridge after completion

New *Infrastructure Construction for the Da-Li Urban Area Expansion*

As part of the Five-year Project of Land Expropriation in Taiwan Province approved by the Executive Yuan of the Government in July 1992, the Da-Li (Cao-Hu Area) Urban Area Expansion Land Expropriation acquired a land area of 53.85 hectares from the Li-Xin Branch of the Nei-Xin Elementary school in the northern part of the city. The total construction area for new infrastructure development is about 29.68 hectares excluding the water courses and existing buildings.

MAA was commissioned by the Taichung County Government to undertake planning, engineering design, and construction supervision work for the new infrastructure development in September 2000. The project includes site preparation, roadway and parking, storm drainage and sewerage system, water supply, park and other related facilities. The construction is estimated to take 18 months at a cost of NTD 400 million dollars (approximately USD 11.5 million). ■



Da-Li Urban Area Expansion, Taiwan

New *Bridge Project in Bangladesh*

MAA Geotechnics has been involved in the construction of Rupsa bridge project in Bangladesh. The project consists of 8.4 km of road embankment and three (3) bridges crossing the rivers. The main bridge across the Rupsa river is about 1 km long with high embankment in the bridge approaches. The work executed by MAA includes site investigation, design of road embankment with staged loading, design and monitoring of trial embankment. In addition, MAA will be supervising pile load test on 2.5 m diameter bored pile in one of the piers across the Rupsa River. A temporary soil laboratory was established in Khulna city close to the project site and the design work was mainly conducted in Bangkok office. ■

Completed *CPI Factory, Penang*

Owned by M/s CPI (Penang) Sdn. Bhd., the plastic injection moulding factory has a total land area of 4 acres (1.6 ha) and built-up floor area of approximately 13,600 sq.m. consisting of 2-storey production area and 4-storey office block. Construction of the factory commenced in September 2000 and completed in August 2001. Total construction cost is approximately USD 2.7 million. Moh and Associates (M) Sdn. Bhd. was the lead consultant for the design and supervision of the architectural, civil and structural engineering and M & E engineering works. ■



CPI Factory, Penang

TAIWAN HIGH SPEED RAIL PROJECT

During the period from 01 November 2000 to 31 March 2001, four new contracts of the High Speed Rail Project were awarded to MAA.

Project: *Detail Design Service for C296*

Contractor: Evergreen-Shimizu Joint Venture
Location: Chainage TK340+059 to TK343+120
Scope of Services: As the Designer of all permanent works, including viaduct and bridge structures of a total length of 3,044 meters, including crossings of Chung-Shan Freeway and Kao-Nan Highway; excavation of foundation; permanent diversion works of road and drainage.



Project: *Road and Drainage Temporary Relocation Design for C295*

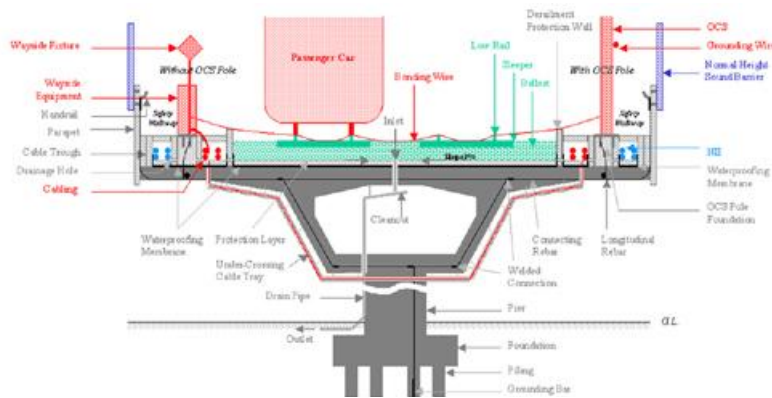
Contractor: Evergreen-Italian Thai-PEWC Joint Venture
Location: Chainage TK312+734 to TK340+058
Scope of Services: Design of 29 roads and temporary drainage relocations.

Project: *Interface Design and Coordination Service for C291*

Contractor: Evergreen-Shimizu Joint Venture
Location: Chainage TK340+059 to TK343+120
Scope of Services:

Task 1 – Interface Design Service: Preparing interface drawings for service coordination drawings of Stage 1; combined service drawings (CSD); structural electrical mechanical drawings (SEM); delivery route drawings (DRD) and interface demarcation drawings (IDD).

Task 2 – Interface Coordination Service: Carrying out interface coordination works of core system with THSRC, including track works, sound barrier, substation, OCS, wayside equipment, cable trough, NII station, equipment room, local authorities related to core system, and any other items which are relevant to THSRC’s core system, such as Communication, Signaling, Central Control System, Power Supply, Locomotive, E/M, etc..



Project: *Temporary Support Design for CIP Viaducts/Bridges for C295*

Contractor: Evergreen-Italian Thai-PEWC Joint Venture
Location: Chainage TK312+734 to TK340+058
Scope of Services: Design of temporary supports for five (5) CIP bridges with 4 different types of supporting system for construction.

PROFESSIONAL ACTIVITIES

LECTURES

■ **Tunnels and Underground Structures**

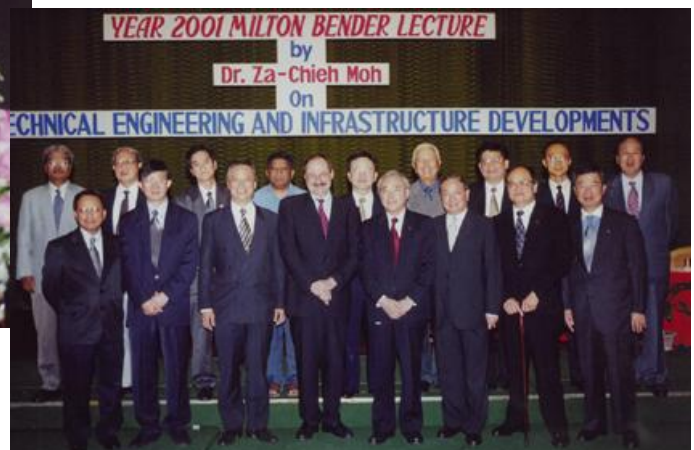
Mr. Sio-Keong Kong, General Manager of MAA Singapore attended the International Conference on Tunnels and Underground Structures in Singapore, 26-29 November 2000, and presented a paper on Behavior and Performance of Deep Excavation in Residual Soils Near Sensitive Structures.

■ **Geotech 2000**

From 27 to 30 November 2000, Geotech 2000 Conference was held at Asian Institute of Technology in Bangkok. Dr. Za-Chieh Moh and Dr. Richard N. Hwang attended the 4-day conference and presented a paper entitled “Geotechnical Engineering Goes High Tech.”.

■ **Bender Lecture**

On 28 June 2001, Dr. Za-Chieh Moh was invited by the Asian Institute of Technology in Bangkok to deliver the prestigious Milton E. Bender Lecture. The Lecture was established in 1993 in honor of AIT’s founding President, Professor Milton E. Bender, Jr. This lecture, entitled Geotechnical Engineering in Infrastructure Development was the eighth in the series and the first memorial lecture after Dr. Bender’s demise in 2000. The previous seven lectures were delivered by well known academicians and researchers around the world. AIT alumni in Taiwan and council members of the Southeast Asian Geotechnical Society organized a special delegation to attend the event, including Dr. Chin-Der Ou, Dr. John C. Li, Mr. George Chen, Mr. Z.M. Huang, Mr. Shain-Jang Lee and Mr. K.I. Hsiung.



Conferences, Seminars, and Other Meetings

SEMINAR DESCRIPTION	SPONSORSHIP	LOCATION	START DATE	END DATE
• The Seminar for Grand SME Leaders-TQM&KM B3&B4	Research & Learning Center of SMEs Northern Taiwan, College of Commerce, National Chengchi University	Taipei	02/10/2000	12/12/2000
• Architecture Research Projects Seminars ABRI	Architecture & Building Research Institute, Ministry of Interior	Taipei	05/10/2000	06/10/2000
• Conference of Reservoir and Watershed Planning and Management	Department of Landscape Architecture, C.C.U.	Taipei	06/10/2000	07/10/2000
• Right Exchange Manner of Urban Renew- A Case Study on Linkou Community	Bureau of Urban Development, Taipei City Government	Taipei	16/10/2000	16/10/2000
• Knowledge Management	Research & Learning Center of SMEs Northern Taiwan, College of Commerce, National Chengchi University	Taipei	17/10/2000	22/11/2000
• Workshop on the Future Trend of Bridge Engineering Technology	Chinese Institute of Civil and Hydraulic Engineering	Taipei	17/10/2000	17/10/2000
• Building Construction Seminar	Architecture & Building Research Institute, Ministry of Interior/Taiwan Construction Research Institute	Taipei	17/10/2000	17/10/2000
• Seminar on Dam Safety	Water Resources Bureau, MOE	Hsinchu	18/10/2000	19/10/2000
• International Conference on Rail Transportation of New Century	Institute of Transportation Management, Tamkang University	Tamshui	21/10/2000	21/10/2000
• Discussion for Groundwater Pollution Prevention(9) : Lecture on Remediation	Environmental Protection Administration	Taipei	23/10/2000	23/10/2000
• Conference on Industrial Safety & Health Technical Services	Industrial Development Bureau, Ministry of Economic Affairs	Taipei	24/10/2000	24/10/2000
• Transfer of the Rail Technology of Taipei Rapid Transit System	Department of Rapid Transit Systems, Taipei City Government	Taipei	27/10/2000	27/10/2000
• The 7th National Engineering Great Performance Conference	Committee of Engineers Ethics, Chinese Institute of Engineers	Taipei	27/10/2000	27/10/2000
• The Seventh Conference on Transportation Safety of R.O.C.	Institute of Transportation Engineering, etc.	Taipei	07/11/2000	07/11/2000
• Mixing and Testing of Permeable Pavement Material	Widening Construction Office, Taiwan Area National Freeway Bureau, MOT&C	Taipei	08/11/2000	08/11/2000
• Modern Engineering and Technology Seminar, 2000	Environmental Protection Administration	Taipei	15/11/2000	15/11/2000
• 2000 Taiwan Rock Engineering Symposium	Dept. of Civil Engineering, National Chung-Hsing University	Taichung	16/11/2000	17/11/2000
• Symposium on Earthquake & Countermeasures Against Earthquake Disaster	Chinese Institute of Civil & Hydraulic Engineering; Taiwan Professional Civil Engineers Assoc.	Taipei	16/11/2000	17/11/2000
• The 2nd Conference on Current Researches and Technology in Tunnelling and Underground	Chinese Taipei Tunnelling Association	Taipei	22/11/2000	23/11/2000
• Session of Numerical Methods for Unsteady Flow Simulation	Hydrotech Research Institute, National Taiwan University	Taipei	23/11/2000	24/11/2000
• Workshop on Bridge Engineering(3) - Health Monitoring and Diagnostic Techniques	Dept. of Civil Engineering, National Central University	Chungli	24/11/2000	25/11/2000

SEMINAR DESCRIPTION	SPONSORSHIP	LOCATION	START DATE	END DATE
• Year 2000 Geotechnics	Asian Institute of Technology	Bangkok, Thailand	27/11/2000	30/11/2000
• The Status & Style, Problem & Countermeasures for the Yellow River to the Development	Sinotech Foundation for Research and Development	Taipei	29/11/2000	29/11/2000
• Simulation of Unsteady Flows in a River System	Hydrotech Research Institute, National Taiwan University	Hsinchu	29/11/2000	01/12/2000
• e Generation Construction Management Information System(e-CMIS)	Information Committee, Chinese Institute of Civil and Hydraulic Engineering	Taipei	30/11/2000	30/11/2000
• Preventing Soil/Groundwater Contamination and Geotechnical Technology	Geotechnical Technology Research and Development Foundation	Taipei	30/11/2000	30/11/2000
• The 21st Asian Conference on Remote Sensing(ACRS 2000)	National Central University	Taipei	04/12/2000	08/12/2000
• Public Construction Information Commission	Information Committee, Taipei Professional Civil Engineers Association	Taipei	07/12/2000	07/12/2000
• Environmental Technologies - the French Know-how	Agency for the International Promotion of Technology and Trade, Institute French Trade Commission	Taipei	07/12/2000	08/12/2000
• HEC-RAS Application Seminar	Taiwan Institute of Hydraulic Engineering	Taipei	09/12/2000	09/12/2000
• Taiwan-Japan Joint Conference on the Investigation and Remediation of the Secondary Disasters after 912 Earthquake	Taiwan Disaster Prevention Society	Nantou	12/12/2000	12/12/2000
• 2000 Soil and Groundwater Remediation Technology Workshop	Taiwan Association of Soil and Groundwater Environmental Protection	Taipei	13/12/2000	14/12/2000
• New Wuchieh Diversion Tunnel Site Visit	Taiwan Construction Research Institute	Nantou	13/12/2000	13/12/2000
• The 15th Annual Conference of the Chinese Institute of Transportation	Chinese Institute of Transportation	Taipei	15/12/2000	15/12/2000
• Seminar on Concrete Technology Development and Prospect in Taiwan 2000	Taiwan Construction Research Institute	Taipei	21/12/2000	22/12/2000
• Water Resources Management Conference	Water Resources Bureau, MOE	Taichung	21/12/2000	21/12/2000
• Steel Building & Seismic Resistant Seminar	Chinese Architecture & Building Center, Construction and Planning Administration, Ministry of Interior	Taipei	28/12/2000	28/12/2000
• SQL Server 2000 Application	Sino America Consultant Co., Ltd.	Taipei	01/02/2001	03/02/2001
• Rock Classification System & Establishment of Engineering Database in Taiwan Tunnel	Public Construction Commission, Executive Yuan	Taipei	02/02/2001	02/02/2001
• Short Course on Quality Control for Public Works	I-Shou UNIVERSITY	Kaohsiung	05/02/2001	05/02/2001
• Soil Improvement Methods be Applied to Excavation in Kaohsiung MRT.	Taiwan Construction Research Institute	Kaohsiung	16/02/2001	16/02/2001
• Horizontal Directional Drilling Seminar	China-Taipei : Society of Trenchless Technology (CTSTT)	Taipei	27/02/2001	27/02/2001
• General Requirement for the Competence of Testing and Calibration Laboratories	Jyh Yuan Consultants, Co., Ltd.	Taipei	15/03/2001	16/03/2001
• Workshop on Bridge Engineering(4) - Bridge Management Inspection and Monitoring	Bridge Engineering Research Center, National Central University	Taipei	20/03/2001	20/03/2001
• RM 2000 Training Seminar	TDV Company	Taipei	26/03/2001	27/03/2001

SEMINAR DESCRIPTION	SPONSORSHIP	LOCATION	START DATE	END DATE
• Material Testing and Quality Control Staff Training Class	Taiwan Area National Expressway Engineering Bureau, MOTC	Changhwa	26/03/2001	13/04/2001
• Site Symposium on TBM D&B Excavation Method in New Wuchieh Diversion Tunnel	Chinese Taipei Tunnelling Association	Nantou	27/03/2001	28/03/2001
• The Symposium of Transportation Engineering and Traffic Management for Taiwan	China Road Federation	Taipei	28/03/2001	28/03/2001

TECHNICAL PUBLICATIONS

<p>MOH, Z.C. and HWANG, R.N. (2000), "Geotechnical Engineering Goes High Tech," <i>Proc., Year 2000-Geotechnics</i>, Asian Institute of Technology, 13-17 November, 2000, Bangkok.</p>	<p>KONG, S.K., LAI, K.S., and YANG, D.Q. (2000), "Behavior and Performance of Deep Excavation in Residual Soils Near Sensitive Structures," <i>Proc., International Conference on Tunnels and Underground Structures</i>, November, Singapore, pp. 457-463.</p>	<p>CHUNG, C.T., SUN, C.W., HWANG, R.N., and DUANN, S.W. (2001), "A Case History on Excavation," <i>Proc., 2nd Cross Strait Seminar on Tunnels and Underground Construction</i>, January, Taipei (in Chinese).</p>	<p>HWANG, R.N. (2001), "Case Histories on Application of Ground Improvement in Tunnelling and Building Protection - TRTS Experience", <i>Proc., Workshop on Application of Ground Improvement on MRT Construction</i>, February, Kaohsiung.</p>
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PERSONNEL MOVEMENTS

NEW APPOINTMENTS

CHINESE NAME	ENGLISH NAME	DEPARTMENT	TITLE	EFFECTIVE DATE
• 張光弘	Kung-Hung Chang	Construction Management Dept.	Civil Engineer II	02/10/2000
• 關志同	Chih-Tong Chiueh	Construction Management Dept.	Civil Engineer II	02/10/2000
• 徐國輝	Kuo-Hui Hsu	Construction Management Dept.	Geotechnical Engineer II	11/10/2000
• 余慶驊	Ching-Hwa Yu	Construction Management Dept.	Civil Engineer III	16/10/2000
• 廖朝木	Jau-Muh Liaw	Dajia-Changben Supervision Office of Taiwan Central Second Freeway Project	Civil Engineer III	16/10/2000

CHINESE NAME	ENGLISH NAME	DEPARTMENT	TITLE	EFFECTIVE DATE
• 廖容晨	Rong-Chern Liaw	General Affaris, Administration Dept.	General Affairs Clerk III	16/10/2000
• 李玉麒	Yu-Chih Lee	Dajia-Changben Supervision Office of Taiwan Central Second Freeway Project	Senior Technician	18/10/2000
• 鄧萍嬌	Ping-Chiao Teng	High Speed Rail Project	Secretary III	25/10/2000
• 鄭隆印	Lung-Yin Jeng	General Affaris, Administration Dept.	Group Leader of General Affairs Group	30/10/2000
• 張麗娟	Lih-Chuan Chang	High Speed Rail Project	CADD Operator	30/10/2000
• 許茗維	Ming-Wei Hsu	The Second Freeway Nantou Section Construction Project	Technician I	01/11/2000
• 李立群	Li-Chiun Lee	High Speed Rail Project	Structural Engineer I	01/11/2000
• 陳慶瑜	Ching-Yu Chen	Transportation & Civil Engg. Dept. I	Senior Technician	01/11/2000
• 張及人	Chi-Jen Chang	Construction Management Dept.	Civil Engineer II	24/11/2000
• 蔡靖寰	Ching-Huan Tsai	Construction Management Dept.	Civil Engineer II	11/12/2000
• 譚家瑞	Chia-Ray Seng	High Speed Rail Project.	Geotechnical Engineer I	18/12/2000
• 康芳銘	Fang-Ming Kang	Transportation & Civil Engg. Dept. II	Civil Engineer I	21/12/2000
• 林士彥	Shih-Yen Lin	High Speed Rail Project	Civil Engineer II	26/12/2000
• 黃如旭	Ju-Hsu Huang	Transportation & Civil Engg. Dept. I	Civil Engineer II	02/01/2001
• 黃永傑	Yong-Jie Huang	Construction Management Dept.	Civil Engineer III	08/01/2001
• 陳彥仁	Yen-Ren Chen	High Speed Rail Project	Civil Engineer II	08/01/2001
• 譚聲宏	Sheng-Hung Tan	Transportation & Civil Engg. Dept. I	Civil Engineer II	06/02/2001
• 王裕傑	Yu-Chieh Wang	High Speed Rail Project	Structural Engineer II	09/02/2001
• 黃志剛	Chih-Kang Huang	Geomatics Dept.	GIS Engineer I	21/02/2001
• 周郵穎	Chih-Ying Chou	High Speed Rail Project	Structural Engineer II	26/02/2001
• 盧建志	Chien-Chih Lu	High Speed Rail Project	Structural Engineer II	12/03/2001
• 闕瑞銘	Ruey-Ming Chueh	Electric & Mechanical System Engg. Dept.	Senior Technician	12/03/2001
• 賈皓麟	Joseph Chia	Electric & Mechanical System Engg. Dept.	Electric Engineer II	15/03/2001
• 江秀雯	Ann Chiang	Human Resources Group, Adm. Dept.	Personnel Clerk III	21/03/2001
• 方尙義	Sun-Yi Fang	Construction Management Dept.	Civil Engineer I	24/03/2001

PROMOTIONS

CHINESE NAME	ENGLISH NAME	DEPARTMENT	FROM	TO	EFFECTIVE DATE
• 黃 永 和	Yuang-Her Whang	High Speed Rail Project	Senior Structural Engineer II	Senior Structural Engineer I	01/01/2001
• 黃 清 輝	Ching-Hui Huang	High Speed Rail Project	Engineering Geologist I	Senior Engineering Geologist II	01/01/2001
• 吳 定 恩	Ding-En Wu	Construction Management Dept.	Civil Engineer I	Senior Civil Engineer II	01/01/2001
• 黃 哲 宗	Che-Tsung Huang	High Speed Rail Project	Civil Engineer I	Senior Civil Engineer II	01/01/2001
• 陳 國 雄	Kuo-Hsiung Chen	Transportation & Civil Engg. Dept. I	Civil Engineer I	Senior Civil Engineer II	01/01/2001
• 王 惠 虹	Hui-Hung Wang	Kaohsiung New Town Project	Senior Technician	Civil Engineer III	01/01/2001
• 陳 富 文	Fu-Wen Chen	Construction Management Dept.	Civil Engineer II	Civil Engineer I	01/01/2001
• 黃 志 強	Jhy-Chiang Huang	Dajia-Changben Supervision Office of Taiwan Central Second Freeway Project	Civil Engineer III	Civil Engineer II	01/01/2001
• 金 全 鑫	Chuan-Hsin Chin	Geomatics Dept.	GIS Engineer III	GIS Engineer II	01/01/2001
• 陳 錫 琳	Hsi-Lin Chen	Construction Management Dept.	Civil Engineer II	Civil Engineer I	01/01/2001
• 楊 慶 燾	Ching-Tsuan Yang	Structural Engineering Dept.	Structural Engineer I	Senior Structural Engineer II	01/01/2001
• 胡 熹	Si Hu	Development & Planning Dept.	Planner I	Senior Planner II	01/01/2001
• 賴 淑 梅	Shu-Mei Lai	High Speed Rail Project	CADD Operator	CADD Designer III	01/01/2001
• 楊 永 康	Yung-Kang Yang	Geotechnical Engineering Dept.	Geotechnical Engineer I	Senior Geotechnical Engineer II	01/01/2001
• 李 俊 璋	Chun-Chang Lee	Geomatics Dept.	GIS Engineer II	GIS Engineer I	01/01/2001
• 許 先 才	Shian-Tsair Sheu	Construction Management Dept.	Civil Engineer II	Civil Engineer I	01/01/2001
• 林 文 盛	Wen-Sheng Lin	The Second Freeway Nantou Section Construction Project	Civil Engineer I	Senior Civil Engineer II	01/01/2001
• 周 立 銘	Li-Ming Chou	High Speed Rail Project	Civil Engineer I	Senior Civil Engineer II	01/01/2001
• 郭 賢 宗	Shang Jzone Kuo	Kaohsiung Office	Civil Engineer II	Civil Engineer I	01/01/2001
• 陳 宣 樺	Hsian-Hua Chen	Structural Engineering Dept.	Structural Engineer II	Structural Engineer I	01/01/2001
• 張 雲 竹	Yun-Jwu Chang	High Speed Rail Project	Civil Engineer II	Civil Engineer I	01/01/2001
• 林 柏 松	Bor-Song Lin	Transportation & Civil Engg. Dept. II	Civil Engineer II	Civil Engineer I	01/01/2001
• 陳 嘉 明	Jia-Ming Chen	High Speed Rail Project	Structural Engineer II	Structural Engineer I	01/01/2001
• 簡 城 宗	Chung-Tzong Jean	High Speed Rail Project	Geotechnical Engineer II	Geotechnical Engineer I	01/01/2001
• 王 聖 岑	Sheng-Tsen Wang	High Speed Rail Project	Civil Engineer II	Civil Engineer I	01/01/2001
• 張 志 豪	Chih-Hao Chang	High Speed Rail Project	Civil Engineer II	Civil Engineer I	01/01/2001

CHINESE NAME	ENGLISH NAME	DEPARTMENT	FROM	TO	EFFECTIVE DATE
• 詹仕煒	Su-Uei Jan	Transportation & Civil Engg. Dept. I	Civil Engineer II	Civil Engineer I	01/01/2001
• 莊孟翰	Meng-Han Chuang	Geotechnical Engineering Dept.	Geotechnical Engineer II	Geotechnical Engineer I	01/01/2001
• 賀季剛	Ghi-Kang Ho	High Speed Rail Project	Civil Engineer II	Civil Engineer I	01/01/2001
• 黃于玻	Yu-Bo Hwang	Environmental Protection Engg. Dept.	Environmental Scientist II	Environmental Scientist I	01/01/2001
• 潘存真	Tsun-Chen Pan	The Second Freeway Nantou Section Construction Project	Structural Engineer II	Structural Engineer I	01/01/2001
• 陳國龍	Kuo-Long Chen	Dajia-Changben Supervision Office of Taiwan Central Second Freeway Project	Civil Engineer II	Civil Engineer I	01/01/2001
• 游中榮	Chung-Jong Yu	High Speed Rail Project	Engineering Geologist II	Engineering Geologist I	01/01/2001

Awards

MAA Taiwan presented Staff-of-the-Year awards and merit awards for year 2000 to the following staff :

STAFF - OF - THE - YEAR AWARDS

Mr. Win-Ling Tung (童文麟)

Civil Engineer I of the Transportation & Civil Engineering Department I received the Award for his performance as the Project Engineer of the Water-Conserved Planning & Designing for the Bi-Hai Hydraulic Power Plant Construction Road Project of the Taiwan Power Company. Mr. Tung has worked under extremely difficult condition, achieved progress ahead of schedule, and was commended by the client.

Mr. Win-Sen Lin (林文盛)

Project Engineer of the Second Freeway Nantou Section Construction Project, was nominated for the Staff-of-the-Year Award for his excellent performance in scheduling control. He was particularly commended by the members of the Committee on Construction Quality Assessment for Major Transportation Projects of the Ministry of Transportation and Communications.

MERIT AWARDS

CHINESE NAME	ENGLISH NAME	DEPARTMENT	TITLE	PROJECT
• 楊永康	Yung-Kang Yang	Geotechnical Engineering Dept.	Senior Geotechnical Engineer II	for site investigation of Tempisque Bridge in Costa Rica
• 童文麟	Win-Ling Tung	Transportation & Civil Engg. Dept. I	Project Engineer, Civil Engineer I	for reconnaissance work of the Bi-Hai Hydraulic Power Plant
• 陳清全	Ching-Chyung Chen	Transportation & Civil Engg. Dept. I	Project Engineer, Senior Civil Engineer	for San Carlos Highway Project in Costa Rica
• 陳建維	Chien-Wei Chen	Geotechnical Engineering Dept.	Geotechnical Engineer II	for site investigation work at Tempisque Bridge in Costa Rica
• 符玉泉	Yu-Chuan Fu	High Speed Rail Project	Civil Engineer I	for reconnaissance work of the Bi-Hai Hydraulic Power Plant
• 張暉苑	Yung-Kang Yang	Structural Engineering Dept.	Senior Structural Engineer II	for reconnaissance work of the Bi-Hai Hydraulic Power Plant
• 許景富	Jing-Fu Hsu	Construction Management Dept.	Engineering Geologist I	for reconnaissance work of the Bi-Hai Hydraulic Power Plant
• Paul R. Flancia	Paul R. Flancia	Transportation & Civil Engg. Dept. I	Civil Engineer I	for San Carlos Highway Project in Costa Rica
• 李亞倫	Aa-Ran Lee	Construction Management Dept.	Senior Civil Engineer	for San Carlos Highway Project in Costa Rica
• 李志深	Chih-Shen Lee	High Speed Rail Project	Structural Engineer I	for San Carlos Highway Project in Costa Rica
• 周立銘	Li-Ming Chou	High Speed Rail Project	Senior Civil Engineer II	design of The Second Freeway Nantou Construction Project
• 簡慶龍	Ching-Long Jean	General Affairs Group, Admin. Dept.	Driver	for reconnaissance work of the Bi-Hai Hydraulic Power Plant
• 吳慶郎	Ching-Lang Wu	General Affairs Group, Admin. Dept.	Driver	for reconnaissance work of the Bi-Hai Hydraulic Power Plant
• 王耀文	Yaw-Wen Wang	General Affairs Group, Admin. Dept.	Driver	for reconnaissance work of the Bi-Hai Hydraulic Power Plant

LONG - YEARS SERVICE AWARDS

Congratulations to the following staff who have received awards for year 2000 at annual dinner parties held in January 2001.

AWARD TYPE	COMPANY	CHINESE NAME	ENGLISH NAME	POSITION HELD
20 years service	MAAT	謝 啓 智	Chi-Chih Hsieh	Senior Vice President
	MAAT	陳 明 山	Shan-Ming Chen	Senior Geotechnical Engineer II
	MAAT	楊 天 振	Tien-chen Yang	Senior Civil Engineer II
	MAAT	許 如 蕙	Ru-Huey Hsu	Secretary II
	MAAHK	黃 文 富	Huang wan-Fu	Senior Engineer
	MAAHK	勞 錦 鴻	Lo Kam-Hung	Senior Engineer
	MAAHK	黃 成 德	Wong Shing-Tak	Draftsperson
15 years service	MAAT	徐 中 銘	Jong-Ming Hsu	Senior System Engineer
	MAAT	許 俊 男	Jun-Nan Hsu	Principial Civil Engineer
	MAAHK	黃 碧 嫻	Wong Pik Han, Jennie	Secretary
	MAAHK	羅 玉 華	Law Yuk-Wah, Candy	Accountant
	MAAM	潘 亞 來	Phoon Ah Looi	Senior Engineer Geologist
10 years service	MAAT	謝 玉 敏	Yu-Min Hsieh	Secretary I
	MAAT	曲 榮 紹	Jung-Shao Chiu	Senior Structural Engineer II and Manager of Kaohsiung Office
	MAAT	陳 國 雄	Kuo-Hsiung Chen	Senior Civil Engineer II and Section Chief of Transportation and Civil Engineering Dept. I
	MAAT	龔 湛 恩	Chan-En Kung	Geotechnical Engineer I
	MAAT	曾 國 祥	Kuo-Shang Tseng	Civil Engineer I
	MAAT	鍾 士 昌	Shih-Chang Chun	Civil Engineer I
	MAAT	馮 賜 陽	Syh-Yang Ferng	Geotechnical Engineer I
	MAAT	王 勝 男	Sheng Nan Wang	Geotechnical Engineer I
	MAAT	張 暉 苑	Hui-Yuan Chang	Senior Structural Engineer II
	MAAT	黃 炳 章	Ping-Chang Huang	Senior Civil Engineer I and Section Chief of Construction Management Department
	MAAT	楊 國 榮	Gwo-Rong Yang	Senior Geotechnical Engineer II
	MAAT	簡 慶 龍	Ching-Long Jean	Driver
	MAAT	黃 南 輝	Nan Huei Hwang	Senior Vice President
	MAATH		Wichien Wilaingam	Managing Director
	MAATH		Nipaporn Takang	Asst. Manager, Administrative Dept.
	MAATH		Narit Namchantra	Deputy Managing Director
	MAATH		Nirat Tansawat	Deputy Managing Director
MAATH		Peera Anuwattanakul	Technician	
MAATH		Loesak Nakchun	CAD Operator	

AWARD TYPE	COMPANY	CHINESE NAME	ENGLISH NAME	POSITION HELD
10 years service	MAATH		Winai Sanghitkul	Chief of Structural & Civil Section
	MAATH		Weeraya Kirdpoln	Manager of Administrative Department
	MAATH		Kongsak Rungfa	CAD Operator
	MAATH		Chawalit Lohseetong	Deputy Managing Director
5 years service	MAAT	王東源	Tung-Yuan Wang	Civil Engineer I
	MAAT	莊國祥	Kok-Siang Cheng	Civil Engineer I
	MAAT	張旭南	Hsin-Yuen Chang	Principal Structural Engineer and Manager of Transportation and Civil Engineering Dept. II
	MAAT	呂鏡方	Shih-Nun Chang	Senior Civil Engineer I and Manager of Construction Management Dept. II
	MAAT	張心月	Ching-Foung Lu	CADD Operator
	MAAT	黃秋月	Chiu-Yuen Huang	CADD Operator
	MAAHK	談立慈	Tam Lap Chi	Engineer
	MAAHK	黎美珍	Lai Mei Chun	Clerk
	MAAS		Rohaizat Bin Anwa	Draftsperson
	MAAM	邱昆泰	KhooKoon Tai	Manager
	MAAM		Jamaliah Bt. Radizian	Structural Engineer II
	MAAM		Zakaria Bin Mohd Yusoff	Draftsperson
	MAATH		Pongsak Nakchun	CAD Operator
	MAATH		Pirom Khongkharin	Senior Engineer
	MAATH		Prasert Jirawatanachai	Assistant Manager, Design Department
	MAATH		Kosit Conkumlung	Structural Engineer
	MAATH		Samniang Paungphong	Assistant Secretary
	MAATH		Mongkol Changchup	Senior Engineer
	MAATH		Arnachak Suwatanasuntorn	Chief of Mechanical & Sanitary Section
	MAATH		Sayan Roopsom	Technician
	MAATH		Jeerapong Ratanapetch	Structural Engineer
	MAATH		Cutcharin Tantijitnom	Asst. Manager, human Resources Dept.
	MAATH		Somsak Attohi	Assistant Manager, CM Department
MAATH		Ampaporn Winyuwanich	Secretary	
MAATH		Chusri Bunlurtharp	Maid	

AWARD TYPE	COMPANY	CHINESE NAME	ENGLISH NAME	POSITION HELD	
5 years service	MAATH		Sirisak Auksornpim	Messenger	
	MAATH		Poonsak Lurelon	Project Engineer	
	MAATH		Wasan Kaosa-Ard	CAD Operator	
	MAATH		Sombat Chumchern	Driver	
	MAATH		Aoi Taweepol	Driver	
	MAATH		Pathaitep Jongmekarnpanich	Electrical Engineer I	
	MAATH		Pinit Wichaimethawee	Structural / Civil Engineer	
	MAATH		Pranee Phenghalay	Assit. Manager, Administrative Dept.	
	MAATH		Jarinporn Kitikul	Secretary	
	MAATH		Narongrit Homkajon	Mechanical Engineer	
	MAATH		Surat Tiengcharoen	Structural Engineer II	
	MAATH		Sangworn Malin	Technician	
	MAATH		Areerat Chumpanoi	Electrical Engineer	
	MAATH		Aphichai Boonphanchea	Computer Specialist	
	MAATH		Chatchai Lohseethong	Assit. Manager, CM Dept.	
	MAATH		Suralak Poolthupya	Structural Engineer	
	MAATH		Warunee Dungchaum	CAD Operator	
	MAATH		Jarin Polsiri	Maid	
	MAATH		Anurak Khemthong	Driver	
	MAATH		Aphatsara Krissanaklas	Structural / Civil Engineer	
	MAATH		Winai Gaewgoontol	Chief of Structural & Civil Section	
	MAATH		Akarin Urairat	Architect	
	MAAG		謝添和	Seah Tian Ho	Chief of Structural & Civil Section
	CABR-MAA		王京田	Jingtian Wang	Vice Manager (Computer Center)
	MAASH		蔣嵐	Lan Jiang	Structural Engineer
	MAASH		蔡雷	Lei Cai	HVAC Engineer
	MAASH		陳慶蘭	Qing-Lan Chen	Electrical Engineer
	MAASH		章兆瑾	Zhao-Jing Zhang	Chief Engineer (Water supply and sewage)
	MAASH		周淑萍	Shu-Ping Zhou	Chief Architect
	MAASH		肖晏	Yan Xiao	Electrical Engineer
MAASH		陳建萍	Jian-Ping Chen	Electrical Engineer	

PERSONNEL PROFILES

Mr. Yuang-Her WHANG



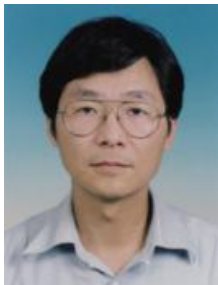
Mr. Yuang-Her WHANG, a graduate of the National Taiwan University in 1982 and holder of M.Eng. from the University of Iowa in 1987, was promoted from Senior Structural Engineer II to Senior Structural Engineer I in January 2001. Besides involvement in the design of many viaducts and bridges for highways and freeways, Mr. Whang has also participated or led design on MRT and tall buildings, including Taipei MRT Nankang Line CN257, Mucha Line Tail Track, Ministry of Audit Building, and Central Union Office Building in Taipei. Since 1997, Mr. Whang is heavily involved in various phases of the Taiwan High Speed Rail Project. He is currently the Deputy Project Manager of the HSR Project, responsible for all coordinations and supervision of structural design work.

Mr. Yung-Kang YANG



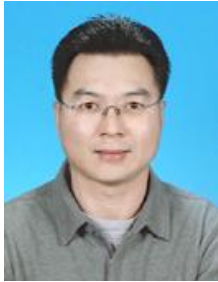
Mr. Yung-Kang YANG received his B.S. degree from the National Cheng Kung University in 1989 and M.S. degree from the University of Texas at Austin in 1993. He joined MAA Taipei immediately upon his return from the U.S.A. Some of the important geotechnical works undertaken by Mr. Yang include ground improvement and foundation design for the Landside Road System for the Second Bangkok International Airport; Far Eastern Plaza in Kaohsiung; Nankang Software Industrial Park; No. T-1 Elevated Expressway of Taiwan Highway; High Speed Rail Project contract 220; Tempisque Bridge and San Carlos Highway in Costa Rica. Mr. Yang is a Registered Professional Geotechnical Engineer and was selected by the Taiwan Geotechnical Society as the representative from Taiwan to attend the International Young Geotechnical Engineers Conference held in the U.K. in September 2001. Mr. Yang was promoted to Senior Geotechnical Engineer II in January 2001.

Mr. Ching-Hui HUANG



A graduate with B.S. degree in Geology from the Chinese Culture University in 1982, Mr. Ching-Hui HUANG joined MAA Taipei in 1988 as an Engineering Geologist II. During the twelve years tenure at the company, Mr. Huang was involved in engineering geology work for many major infrastructure projects including Linkou Peipin International Golf Course, Hsinchu Science Based Industrial Park Phase III Development, Nankang-Ilan Expressway Route Selection, Taipei MRT, Taiwan High Speed Rail and Shin-Yi Branch of the Second N-S Freeway. Mr. Huang was promoted to Senior Engineering Geologist II in January 2001.

Mr. Ding-En WU



Mr. Ding-En Wu, a civil engineering graduate of the Chung Yuan University in 1986 was promoted to Senior Civil Engineer II in MAA Taipei in January 2001. Mr. Wu joined MAA immediately after his military service as a Geotechnical Engineer II. After six years in geotechnical work, Mr. Wu was transferred to the construction Management Department. Major projects undertaken include the Nankang Software Park, National Cheng-Chi University New Building Construction. Since 1996, Mr. Wu was assigned to be in charge of Construction Safety Management for the Fushing North Road Airport Underpass Project.

Mr. Che-Tsung HUANG



Mr. Che-Tsung HUANG graduated from the Tam Kang University in 1983 and is a Registered Professional Hydraulic Engineer in the ROC. Mr. Huang joined MAA Taipei in 1989 after 3 years working in government agencies. At MAA, Mr. Huang is one of the key engineers being responsible for the analysis and design of

hydraulic and drainage facilities for many development and infrastructure projects. Some of the more notable projects include Peipin Golf course, Hsinchu Science Based Industrial Park Phase III Development, Nantou section and Taichung Section of the Second Freeway, Taipei International Airport, Nanliao-Chutung E-W Expressway, and High Speed Rail Project. Mr. Huang was promoted to Senior Civil Engineer II in January 2001.

Mr. Kuo-Hsiung CHEN



A graduated of the National University of Marine Science & Technology in 1982 and a Registered Professional Civil Engineer in the ROC, Mr. Kuo-Hsiung Chen has 16 years of working experience in civil engineering experience.

Mr. Chen joined MAA in 1990. In the past ten years, Mr. Chen was involved in the construction supervision and management of the Kuanhsi-Hsinchu section and Nantou section of the Second N-S Freeway, and responsible for the construction management of the Suao Harbor Arch-bridge and the Ilan county center civil works. Mr. Chen was promoted to Senior Civil Engineer II in January 2001.

Mr. Ching-Tsuan YANG



Mr. Ching-Tsuan Yang obtained his B.S. degree in Civil Engineering from the Tamkang University in 1983 and M.S. degree from Utah State University in 1992. Mr. Yang joined MAA Taipei in 1992 as a Structural Engineer. In the eight years at MAA, Mr. Yang has been primarily involved in the planning and design of bridge structures, including Changping-Taichung Expressway, Keelung-Pinsi Tunnel-Bridge and Chunan-Tofen Viaduct, Mr. Yang is a Registered Professional Civil Engineer as well as Structural Engineer. He was promoted to Senior Structural Engineer II in January 2001.

Mr. Si HU



Mr. Si HU, a Planner in the Development & Planning Department of MAA Taipei, was promoted to Senior Planner II in January 2001. Mr. Hu graduated from Feng Chia University in 1987 with a B.S. degree in Land Management and later obtained a MEP in Planning from the Arizona State University in 1993. While working as a Project Assistant Planner in the Town of Guadalupe in Arizona from 1991-1993, Mr. Hu was involved in the Guadalupe Development Guide 2000 Project. In 1993, Mr. Hu joined MAA and was involved in a number of planning projects including preliminary design of Saigon South Parkway in Ho-Chi-Min City, VN, General Consultancy Services of the BOT MRT project from CKS Airport to Taipei, Disney Fest Project in Taipei, Feasibility Study of Private sector participation in the MRT of Tainan Metropolitan Area.

Mr. Li-Ming CHOU



Mr. Li-Ming CHOU, a Registered Professional Hydraulic Engineer in ROC, joined MAA in 1993 as a Civil Engineer II. He obtained his B.S. degree in Soil & Water Conservation at the Chung Hsing University in 1988 and M. Eng.

from the National Taiwan University in 1993. At MAA, Mr. Chou was responsible for the design of pavement and drainage system for several major infrastructure projects including the Landside Road System of the Second Bangkok International Airport; new highway in Ilan County; contracts 291, 295 and 296 of the Taiwan High Speed Rail Project.

Mr. Chou was promoted to Senior Civil Engineer II in January 2001.

Mr. Win-Sen LIN



A 1988 graduate from the National Taiwan Institute of Technology, Mr. Lin obtain his M. Eng. in Construction Management from the same University in 1994 and joined MAA Taipei immediately after graduation. In the first three years at MAA, Mr. Lin was involved in preparation of tender documents, quality assurance and auditing works of several construction projects. Since 1997, he was assigned to the construction supervision/management project of the Nantou Section of the Second N-S Freeway where he is Project Engineer at present.

Mr. Lin is a Registered Professional Civil Engineer in ROC. He was promoted to Senior Civil Engineer II in January 2001.



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