



MAA Bulletin

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Fushing North Road Airport Underpass



亞新工程顧問股份(集團)公司
MAA Group Consulting Engineers
TAIPEI KAOHSIUNG HONGKONG 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 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:

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

ISO 9001 CERTIFICATION



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NEW OFFICE BUILDING FOR MAA THAILAND

After working in rented office premises for more than twelve years since its establishment, MAA Consultants Thailand has decided to construct its own building. The new office, with a total floor area of 2,400 sq.m. located in the Bang Sue district of Bangkok, which will also house the MAA Geotechnics. A foundation stone laying ceremony was held on 29 November 2001.



ISO 9001:2000 CERTIFICATE AWARD

Moh and Associates Inc., Taiwan office of MAA Group has been assessed and found to be in accordance with the requirements of the BS EN ISO 9001:2000 Quality Standards on Scope of Services comprising civil engineering superintendent, investigation, soil testing, feasibility study, planning and designing services in geotechnical engineering, structural engineering, transportation & civil engineering, building, bridges & tunnel, industrial & residential development, construction management, environmental protection engineering, electric & mechanical system & GIS (geographic information system) in September 2000.

The ISO 9001 : 2000 certificate of approval was awarded by the Bureau Veritas Quality International (BVQI) on behalf of UKAS of UK and Deutscher Akkreditierungs Rat of Gemany in December 2001 following the ISO 9001:1994 certificate of original approval in August 1997. It has been a new step which symbolizes MAA's persistent effort to provide the best quality of services to the clients.

In April 2001, Moh and Associates (S) Pte. Ltd. was awarded the certificates of conforming to the requirements of ISO 9001 : 2000/SS ISO 9001 : 2000 for geotechnical, civil and structural consultancy services by the IQNet and PSB.



MOH AND ASSOCIATES INC.



MOH AND ASSOCIATES (S) PTE. LTD.

PROJECTS APRIL 2001 - MARCH 2002

In the period from 01 April 2001 to 31 March 2002, the MAA Group companies have completed 159 projects and commence 80 new projects. The Projects completed include 32 pharmaceutical and chemical facilities, 68 geotechnical studies, 5 construction management, 5 GIS, 4 environmental impact assessment and 45 design of infrastructures and development projects. The 80 new projects include 43 design projects, 3 construction management, 5 common duct, 5 environmental impact assessment and 24 geotechnical related work.

E/M WORK FOR CORE PACIFIC MALL

Asia's largest shopping mall in the center of city, the Core Pacific Mall in Taipei, was completed and opened in November 2001. The Mall, with a total floor area of 204,680 sq.m., occupies 12 floors above ground and 7 levels of basement. The electrical-mechanical system of the mall consists of a 27.6 MVA 22.8 kv power supply system, 9600 RT air-conditioning system, 15 elevators and 60 escalators with a total cost of about NT\$1.34 billion dollar (about 37 million US dollar). As part of the construction management team, MAA's Electrical & Mechanical Systems Department was responsible for review of construction specifications and budget, system evaluation, assistance in selection of specialist contractors, quality and safety assurance and system evaluation.

DESIGN AND SUPERVISION FOR JIAN-GUNG ROAD MAIN SEWERS AND ZHEN-HSIN ROAD DISTRICT BRANCH SEWER SYSTEM

In order to completely solve the water pollution problem and hence upgrade the living and environmental standards of Kaohsiung in Taiwan, the Kaohsiung Municipal Government has been enthusiastically promoting the sewer system construction plan since 1979. The entire plan is scheduled to be implemented in several phases and this project is the 3rd phase of the construction plan. This project includes the laying of new pipelines and maintenance of existing pipelines for Jian-Gung Road (建工路) main sewers, the 15th phase private consolidation regional lateral sewer, Hsin-Zhuang-Tzar Road (新莊仔路) and Zhen-Hsin Road (鎮興路) district lateral sewer system.

MAA was commissioned by the Division of Public Sewerage, Public Works Bureau of Kaohsiung Municipal Government to undertake the design and supervision work for the project. With consideration of the regional characteristics and future trends, evaluation of the needs to relay the pipelines through maintenance survey results of existing pipelines, the project is carried out in order to accomplish the goal of a complete sewer system for Kaohsiung and to increase the efficiency of pipe connections to individual consumers.

The project includes main and lateral sewers construction. The total pipe length is 14,737 m with diameter ranging from 300 mm to 1200 mm. The restriction on site and the minimization of environmental impact are carefully taken into account. Circular working shaft employing pipe-jacking method (for short pipes) is used for pipelines with diameter 300 mm ~ 800 mm and continual long-distance pipe-jacking method is used for pipelines with diameter greater than 1000 mm. The total construction cost is estimated to be about NTD 472 million (about 14 million US dollar).

SHE-ZI-DAO DEVELOPMENT PLAN

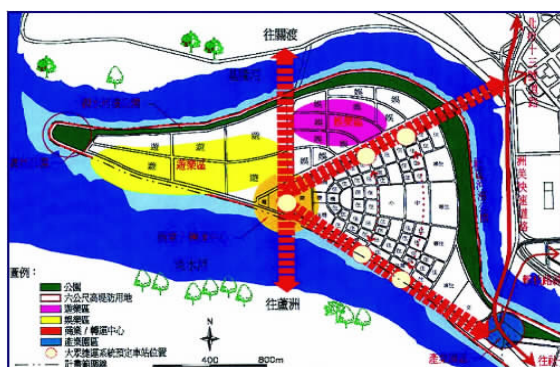
The She-Zi-Dao, a part of the Taipei Metropole, is surrounded by Keelung River and Tamsui River and has severely suffered from flooding during heavy rainfalls in the past decades. Although the urban development plan has been revised several times in the past years, it is still being reviewed by the Urban Planning Commission. The basic idea of the current plan is to build a super dike embracing the She-Zi-Dao and to raise the overall ground level by about 5.65 m from El. + 2.50 m to El. + 8.15 m. Under this plan, not only the flooding problem could be solved, the excess soil produced from earthwork in Taipei City

construction sites could be utilized, resulting in reclaiming additional 250 hectares of land area in She-Zi-Dao. The entire area is planned to be divided into residential areas, residential/commercial districts, specialized residential area, industrial parks, entertainment and recreational areas.

In 2001, MAA was commissioned by the Department of Maintenance Engineering, Public Works Bureau of Taipei City Government to undertake the soil investigation, preliminary land reclamation plan, environmental impact assessment, and other related works. The required volume of earthworks to raise the entire ground to the planned elevation could be up to 16 million cu.m. The land reclamation project is estimated to take 7 years at a cost of NT\$ 7.4 billion dollar (about 210 million US dollar). The major issues during construction for this project include soil settlement and liquefaction assessment, demolishing and reallocation plan, and environmental impact evaluation.



She-Zi-Dao



She-Zi-Dao Urban Plan

TAIWAN HIGH SPEED RAIL PROJECT — ADDITIONAL WORK

During the period between 1 April 2001 and 31 March 2002, five new contracts of the High Speed Rail Project were awarded to MAA.

Detail Design Services for Contract C280 Lot 1

Contractor :
SAMSUNG ENGINEERING & CONSTRUCTION CO. LTD.

Location :
Chaiyi County, Chainage from TK 249+814 to TK 284+221

Scope of Services :
Design of permanent works of viaduct/bridge VB1, VB2 and VB7 with total length of 5,947 meters.

Detail Design Services for Contract C230

Contractor :
HYUNDAI-CHUNGLIN-ZEN PACIFIC JV.

Location :
Hsinchu to Miaoli County, Chainage from TK 86+320 to TK109+760

Scope of Services :
Design of permanent works of viaduct/bridge DU-07, DU-10, DU-17, DU-71, DU-74 with total length of 1,155 meters.

Detail Design Services for Contract C240

Contractor :
HYUNDAI-CHUNGLIN-ZEN PACIFIC JV.

Location :
Miaoli County, from Chainage TK 109+760 to TK 130+600

Scope of Services :
Design of permanent works of viaduct/bridge DU-03, DU-04, DU-12, with total length of 660 meters.

Engineering Support for the Detail Design Services for Contract C250

Contractor :
VIENNA CONSULTING ENGINEERS TAIWAN

Location :
Taichung County

Scope of Services :

MAA was engaged by VCE to provide 4 structural engineers and 4-CAD Operators in executing the design of the Final Design and Construction Design of DU 10.08a, DU 10.08b, DU 11.09 and DU 11.11. The structural system of these 4 design units is 3-span continuous viaduct with different construction methods.

Value Engineering Study and Detail Design Services for Contract C250

Contractor :

HBP JV

Location :

Taichung County

Scope of Services :

- (a) MAA was engaged by HBP JV, the Contractor of THSR C250 to provide the detail design services for DU 8.02 and DU 5.02, two-three span continuous viaducts. The services include definitive design, intermediate design, final design and construction design.
- (b) MAA was engaged by the JV to carry out design review and economical assessment of DU 14.07 and DU 5.01 which were designed by HTC.

TAIPEI RAPID TRANSIT

Design Lot DB144B is a part of the Mucha Extension (Nei Hu) line project of the Taipei Rapid Transit System. The extension goes underground from the northern end of Fu-hsin N. Road, heading east through southern end of the airport towards Taipei Airport Station. The project includes 230 m of underground bored tunnels, 2 construction wells, and a 150 m long 25 m wide, four-storey underground passenger platform.

Construction of the project is expected to commence in June 2003 and the estimated date of completion is December 2006. The total cost of the project is estimated to be NT 2.8 billion (about 85 million US dollar).

In June 2001, MAA and GIBSIN Inc. were jointly awarded the design contract by the Department of Rapid Transit

Systems of the Taipei City Government. The design include civil, geotechnical, structural, architectural, station and tunnel electrical/mechanical facilities, environmental control system, elevator, and lift design. GIBSIN is responsible for the electrical/mechanical work, Haigo Shen is the architect. MAA, as the team leader, is responsible for all civil, geotechnical and structural works in addition to the overall coordination and management.

The design period is from July 2001 to September 2002, and the construction advisory period is from May 2003 to Dec. 2006.



Entrance to TRTS Taipei Airport Station



Overview of TRTS Taipei Airport Station

ONE MARINA BOULEVARD, SINGAPORE

The proposed One Marina Boulevard Development which occupies a land area of about 15,600 sq.m. (Parcels A1 & A2) in the Central Business District of Singapore, comprises one block of 50-storey office tower located directly over the North and South Bound MRT tunnels and one block of 28-storey commercial building with one level common basement in Parcel A1. The development also consists of an underground pedestrian mall (Parcel A2) connecting the basement of the office towers to an existing underpass from Raffles Place MRT Station. The existence of complicated geological formation consisting of young reclaimed land, under-consolidated soft Marine Clay and very hard Bouldery Clay and MRT impose certain difficulties to the substructure construction works of the proposed development.



The Project Manager is Keppel Land International Ltd and the Project Engineer is Meinhardt (Singapore) Pte. Ltd. Moh and Associates (S) Pte Ltd was engaged by the Architect, Architects 61 Private Limited on behalf of the Client, One Marina Boulevard Pte Ltd to provide geotechnical consultancy services including soil investigation works with regard to the foundation system and excavation works of the proposed development.

PROPOSED TERATHANE PLANT FOR DUPONT

DuPont Singapore Pte Ltd is planning to develop the proposed Singapore Terathane Plant which comprises two blocks of manufacturing building (i.e., a 4-storey open structure PTMEG Building and a 2-storey open structure THF Building) and one block of 2-storey Filtration Building with industrial plant facilities (e.g. process columns, tank farms, cooling tower and fire retention pond, etc.) to be constructed on a two hectare site at Jurong Island.

The Engineer is RSP Architects Planners & Engineers Pte Ltd and the Environmental Consultant engaged for the soil investigation works and environmental baseline study is ENVIRONcorp Consulting Services (S) Pte Ltd. Moh and Associates (S) Pte. Ltd. was engaged by the Environmental Consultant to provide geotechnical consultancy service to the project team including soil investigation works with regard to foundation system and road works of the proposed development.

PROPOSED SCHOOL OF BIOLOGICAL SCIENCE FOR NTU

The Nanyang Technological University (NTU) is planning to develop a main building for the School of Biological Science over a sloping ground with a 4.0m wide tunnel linking to the animal holding at Jurong Campus, Singapore. Moh and Associates (S) Pte Ltd was engaged by the Engineer, PWD Consultants Pte. Ltd. to provide geotechnical consultancy services including soil investigation with regards to feasible foundation schemes, retaining systems and stability of pro-

posed cut slopes.

SLOPE STABILIZATION STUDY FOR NUS

Due to soil saturation attributed to the effect of infiltration induced by prolonged rainfalling occurred in December 2001, localised earth slip and movement cracks were observed at the two existing slopes near Yusof Ishak House, National University of Singapore (NUS). The slipped slopes were temporarily stabilised by using “sandbags embankment” at the toe of the plastic canvas over the slipped areas for preventing further disturbance and allowing the execution of soil investigation works at the concerned slope areas.

Temporary perimeter drains have also been installed to discharge surface runoff from the slipped ground for minimizing water infiltration effect.

Concerning the overall safety of the existing slopes and surrounding areas after the occurrence of localised earth slips, Moh and Associates (S) Pte. Ltd. was engaged by the Office of Estate and Development, NUS to provide geotechnical consultancy services including recommendations on temporary stabilization methods, field & laboratory investigation works, slope stability analysis and conceptual design of slope stabilization works for the two affected slope sites.

CONSTRUCTION SUPERVISION FOR BRIDGE AND CONNECTING ROADS IN THAILAND

MAA Thailand was engaged by the Public Works Department Ministry of Interior, Thailand for construction supervision consultancy service for Wat Nakorn-In Bridge and Connecting Roads Project in Nonthaburi, Thailand. This contract consists of a new Chao Phraya river crossing bridge, two connecting roads of about 30 kilometers long and several bridges and flyovers. Total construction cost is about 5,542 million Baht (about USD 132 million). The project started at the beginning of 2001 and will be completed by Year 2003. The project is undertaken in collaboration with Norconsult International of Norway.

AIRCRAFT ENGINE PARTS MANUFACTURING PLANT IN RAYONG, THAILAND

The GE Aircraft Engines of USA have planned to expand its manufacturing plant for aircraft engine parts in South-east Asia region, having Thailand as the destination for this plan.

MAA Thailand was engaged by the GE Elano Asia, a subsidiary of GE Aircraft Engines for initial project planning, detailed design and construction supervision and management of the project. Total construction cost is about 120 million Baht (about USD 3 million). The project was started in January 2001 and completed in March 2002.

PROFESSIONAL ACTIVITIES

▶ LECTURES AND CONFERENCES

15th ICSMGE

From 27th to 31st August, the International Society for Soil Mechanics and Geotechnical Engineering held its 15th Conference in Istanbul, Turkey. The conference is held once every four years. Dr. Za-Chieh Moh was invited to chair one of the four Plenary sessions – Environmental Issues of Geotechnical Engineering. Prior to the conference, the ISSMEF Council held its bi-annual meeting on 27th August. Dr. Za-Chieh Moh and Prof. John C. Li of National Central University attended the full day meeting on behalf of the Southeast Asian Geotechnical Society.

9th CCRGET

The 9th Conference on Current Researches in Geotechnical Engineering in Taiwan was held on 30th August to 1st September 2001 at a resort hotel in Taoyuan. The two-day bi-annual conference was attended by more than 150 academic researchers, practicing engineers and post graduate students. Dr. Za-Chieh Moh was invited as one of the two key note Speakers. He delivered a talk on Geotechnical Engineering and Infrastructure Development. Dr. Moh was also honored by the Taiwan Geotechnical Society as the recipient of the Society Lecture Award.

14th SEAGC

The 14th Southeast Asian Geotechnical Conference, under the sponsorship of the Southeast Asian Geotechnical Society, organized by the Hong Kong Institution of Engineers in association with University of Hong Kong and the Geotechnical Engineering office was held between 10th and 14th December 2001 at the University of Hong Kong campus. Dr. Za-Chieh Moh, Dr. Richard N. Hwang, Messrs. Pen-Chi Lin and Yung-Kang Yang attended the conference and participated in discussions.

During the conference, Dr. Za-Chieh Moh also attended a meeting of the Advisory Committee for the 1st Asian Regional Conference on Soil Mechanics and Geotechnical

Engineering which will be held in 2003 in Singapore. The meeting was chaired by Professor Fumio Tatsuoka, Vice President of the ISSMFE.

4th ICGIT

The 4th International Conference on Ground Improvement Techniques was held on 26th to 28th March 2002 in Kuala Lumpur, Malaysia. Dr. Za-Chieh Moh was invited to deliver a keynote lecture entitled “From Cobra Swamp to International Airport – The Ground Improvement at Suvarnabhumi International Airport”. The paper was co-authored by Mr. P.C. Lin, Project Manager of Moh and Associates responsible for the supervision of the ground improvement work in Bangkok.

▶ PROFESSIONAL SOCIETIES AND MEETINGS

SEAGS

The General Committee (i.e., the governing committee) of the Southeast Asian Geotechnical Society held a meeting on 11th December 2001 during the 14th SEAGC, Dr. Za-Chieh Moh attended the meeting and was re-elected as a GC member for the next term from 2001 to 2004. Dr. K. Y. Yong, Vice President of the National University of Singapore, was elected as the new President for the term 2001-2004. At the meeting, it was decided that the next 15th SEAGC will be held in Bangkok.

CRF

At the bi-annual election of the Board of Directors and Supervisors of the China Road Federation in November 2001 for the term 2002 - 2004, Dr. Za-Lee Moh and Dr. Za-Chieh Moh were re-elected as the Executive Supervisor and Director, respectively. Dr. Za-Lee Moh was re-appointed as the Chairman of International and Cross-Straits Relationship Committee of the Federation.

ASCE

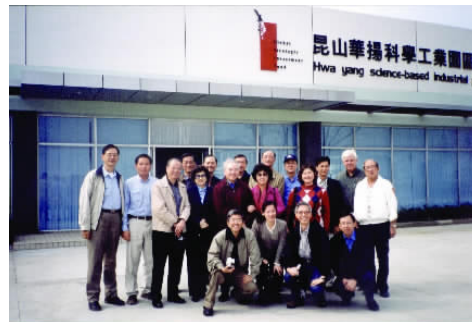
On 25th March, 2002, Dr. H. Gerard Schwaz, Jr., the President of American Society of Civil Engineers along with Mr. James E. Davis, Executive Director and Ms. Marisa Sherard, Senior Manager, of the ASCE headquarters visited MAATaipei Office during Dr. Schwatz's World tour. The guests were cordially welcomed by Dr. Za-Lee Moh and Dr. Za-Chieh Moh, both of them are Fellows of ASCE. A short presentation on MAA's activities in the region was made by Senior Vice President, Mr. Steve Wang. Visitors were impressed by the infrastructure development in Taiwan during the past years and MAA's involvement in those projects. Ways to improve the relationship between ASCE headquarters and its international members were also discussed during the visit at MAA office.

NTU/PWD GRC

In January 2002, Dr. Za-Chieh Moh was re-appointed as the Chairman of the Advisory Committee of the NTU/PWD Geotechnical Research Centre by the President of the Nanyang Technological University, Singapore for another two-year term.

MAA HOLDING

The MAA Consultants Holding, parent company of the MAA Group companies, held the Board of Management meeting in Shanghai, China on 7th and 8th November 2001. This was the second time that MAA Holding had its Board Meeting in China. A post-meeting tour was also arranged for the Board members to visit the development and sceneries in Shanghai and vicinities.



Board of Directors, MAA Consultants Holding Ltd.

▶ CONFERENCES, SEMINARS, AND OTHER MEETINGS

| SEMINAR DESCRIPTION | SPONSORSHIP | LOCATION | START | END |
|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------|------------|------------|
| ISO 9001:2000 Transition Auditor Training Course | SGS International Certification Service | Taipei | 17/04/2001 | 18/04/2001 |
| Conference on Design, Construction and Testing of Drilled Shafts | Taiwan Geotechnical Society | Taipei | 20/04/2001 | 20/04/2001 |
| Technical Conference(II) for Kaohsiung Mass Rapid Transit System | Department of Rapid Transit System, Kaohsiung City Government | Kaohsiung | 23/04/2001 | 23/04/2001 |
| Map Guide R5 Course | Geoinfor Scientek Consultant, Inc. | Taipei | 17/05/2001 | 18/05/2001 |
| Seminar on Curtain Wall - Site Process Improvement | The Curtainwall Technology Development Association of the Republic of China | Taipei | 25/05/2001 | 25/05/2001 |
| Seminar on Fiber-Reinforced Sprayed Concrete Technology In Tunnel | Taiwan Construction Research Institute | Taipei | 31/05/2001 | 31/05/2001 |
| The Second National Workshop on Non-destructive Evaluation of Civil Infrastructure System | Chinese Institute of Civil and Hydraulic Engineering | Taipei | 31/05/2001 | 01/06/2001 |

| SEMINAR DESCRIPTION | SPONSORSHIP | LOCATION | START | END |
|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----------|------------|------------|
| The 21st Sino-Japan Engineering Technique Conference Earthquake Countermeasures of Japanese Underground Sewer Facility | Construction and Planning Administration, Ministry of Interior | Taipei | 01/06/2001 | 01/06/2001 |
| Seismic Rehabilitation, Isolation and Energy Dissipation Design of Building Structures- " The Right Technology for the Construction" | Chinese Seismic-Resisting Technique Development Association | Taipei | 11/06/2001 | 11/06/2001 |
| Seminar on Transportation Policy | Chinese Institute of Transportation | Taoyuan | 11/06/2001 | 11/06/2001 |
| The Application of SCC in Construction Engineering | China Engineering Consultants, Inc. | Taichung | 15/06/2001 | 15/06/2001 |
| Safety-Health Engineer Course | Industrial Safety and Health Association of the Taiwan, R.O.C. | Taipei | 19/06/2001 | 24/08/2001 |
| The Debris-Flow and Flood Damage Seminar | Dept. of Soil & Water Conservation, National Chung Hsing University | Taichung | 20/06/2001 | 20/06/2001 |
| Conference of Civil and Hydraulic Engineering for the New Century | Chinese Institute of Civil and Hydraulic Engineering | Taipei | 22/06/2001 | 22/06/2001 |
| Stone Mastic Asphalt Seminar | Chinese Pavement Engineering Society | Taipei | 22/06/2001 | 22/06/2001 |
| Conference on Geological Hazard in Taipei Metropolis | The Central Geological Survey, MOEA | Taipei | 26/06/2001 | 26/06/2001 |
| Urban Renewal Conference | Council for Economic Planning and Development, Executive Yuan | Taipei | 05/07/2001 | 05/07/2001 |
| Workshop on Dam Safety Management | Hazard Mitigation Research Center, National Chiao Tung University | Hsinchu | 11/07/2001 | 11/07/2001 |
| Site Safety and Health Superintendent Training Class | The Industrial Safety and Health Association of the R.O.C. | Taichung | 16/07/2001 | 16/07/2001 |
| Seminar on the Role of Intelligent Buildings in the Information Age | Architecture & Building Research Institute, MOI | Taipei | 17/07/2001 | 17/07/2001 |
| Taipei-Ilan Expressway Engineering Site Visit | Chinese Institute of Civil and Hydraulic Engineering | Taipei | 18/07/2001 | 18/07/2001 |
| Seminar on Applications of Computer Software on Geotechnical Engineering | Taipei Professional Geotechnical Engineers Association | Taipei | 20/07/2001 | 20/07/2001 |
| Seminar on Hazard Institute-Safety Investigation and Analysis of Slopeland | Taiwan Construction Research Institute, etc. | Taipei | 26/07/2001 | 27/07/2001 |
| Workshop on Professional Construction Management System (P3 Software) | China Engineering Consultants, Inc. | Taipei | 26/07/2001 | 27/07/2001 |
| Workshop for Fire-Control Engineering | China Engineering Consultants, Inc. | Taipei | 27/07/2001 | 27/07/2001 |
| Workshop on Tunneling Construction Technology in Urban Area | Chinese Taipei Tunneling Association | Taipei | 27/07/2001 | 27/07/2001 |
| Seminar on the Final Presentation of the Most Advanced Earthquake Engineering Research | National Kaohsiung First University of Science & Technology | Kaohsiung | 27/07/2001 | 27/07/2001 |
| Semina on Fire Protection Specialists | Republic of China Fire Protection Engineering Consultant Foundation | Taipei | 19/08/2001 | 20/08/2001 |

| SEMINAR DESCRIPTION | SPONSORSHIP | LOCATION | START | END |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------|------------|------------|
| Seminar on Research and Future for Rock Mass Engineering and Mechanic | Sinotech Foundation for Research and Development of Engineering Sciences & Technology | Taipei | 29/08/2001 | 29/08/2001 |
| The Ninth Conference on Current Researches in Geotechnical Engineering in Taiwan | Taiwan Geotechnical Society | Taipei | 30/08/2001 | 01/09/2001 |
| Seminar on Application of Reinforced Concrete Design Code | Chinese Institute of Civil and Hydraulic Engineering | Taipei | 31/08/2001 | 31/08/2001 |
| Advanced Training Class for AutoCAD | Shan Hung Technology Center | Taipei | 06/09/2001 | 25/10/2001 |
| Advanced Training Class for AutoCAD | Shan Hung Technology Center | Taipei | 06/09/2001 | 25/10/2001 |
| The Third Conference on Cross-Straits Hydraulic Engineering & Management | Natural Hazard Mitigation Research Center, National Chiao Tung University | Hsinchu | 11/09/2001 | 11/09/2001 |
| MAPTMA "Green Processing Technology" | The Chinese Association of Engineering Consultants, Taipei, China | Taipei | 14/09/2001 | 14/09/2001 |
| Mastering Enterprise Development Using Microsoft Visual Basic 6.0 | UCOM Education Center | Taipei | 04/10/2001 | 20/10/2001 |
| Fire Safety and Egress Seminar | Department of Industrial Technology, MOEA | Hsinchu | 12/10/2001 | 20/10/2001 |
| Sun Certified Java Programmer | Institute for Information Industry | Taipei | 13/10/2001 | 28/10/2001 |
| Leadership Training for Manager | Dale Carnegie & Associates, Inc. | Taipei | 18/10/2001 | 29/11/2001 |
| Facility Management Course | Chinese Human Resource Management Association | Taipei | 20/10/2001 | 20/10/2001 |
| 2001 Safety and Health of Labors Training Course | Bureau of Labor Affairs, Taipei City Government | Taipei | 22/10/2001 | 22/10/2001 |
| The 8th Conference on Transportation Safety of R.O.C. | Chinese Institute of Transportation | Hsinchu | 25/10/2001 | 25/10/2001 |
| The Labor General Safety and Health Training | Bureau of Labor Affairs, Taipei City Government | Taipei | 26/10/2001 | 25/10/2001 |
| 90' Industry Safety and Health Technic Meeting | Dept. of Industrial Technology, MOEA | Taipei | 30/10/2001 | 30/10/2001 |
| Seminar on Precast Segmental Bridge | Taiwan Construction Research Institute | Taipei | 30/10/2001 | 30/10/2001 |
| Annual Meeting of CGI Society | Chinese Geographic Information Society | Hsinchu | 01/11/2001 | 02/11/2001 |
| Workshop on Design and Applications of Storm Hydraulics | Department and Graduate Institute of Bioenvironmental Systems Engineering, National Taiwan University | Taipei | 02/11/2001 | 02/11/2001 |
| EIA Technology Seminar | Environmental Protection Administration of ROC | Taipei | 05/11/2001 | 06/11/2001 |
| Seminar on Engineering and Hydraulics in Jointed Rock Mass | Sinotech Engineering Consultants, Inc. | Taipei | 05/11/2001 | 06/11/2001 |
| Course of Configuration Management, Progress Management & P3 Software | Taiwan Construction Research Institute | Taipei | 08/11/2001 | 08/11/2001 |

| SEMINAR DESCRIPTION | SPONSORSHIP | LOCATION | START | END |
|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------|------------|------------|
| Int'l Geosynthetics Engineering Forum 2001 - Seismic Design and Performance of Mechanically Stabilized Earth Retaining Structure | Chinese Geosynthetics Association | Taipei | 19/11/2001 | 20/11/2001 |
| Seminar on Environment Impact Assessment of Strategic Action | Environmental Protection Administration of ROC | Taipei | 21/11/2001 | 21/11/2001 |
| The Annual Conference of Chinese Taipei Tunneling Association | Chinese Taipei Tunneling Association | I-Lan | 23/11/2001 | 23/11/2001 |
| Seminar on Utility Safety System | Industrial Technology & Research Institute | Taipei | 28/11/2001 | 28/11/2001 |
| A Short-Term Training for Application of Controlled Low Strength Material (CLSM) | Taiwan Construction Research Institute | Taipei | 29/11/2001 | 29/11/2001 |
| The 16th Annual Conference for the Chinese Institute of Transportation | Chinese Institute of Transportation | Taipei | 29/11/2001 | 29/11/2001 |
| Steel Structure Technical Conference of Taiwan, Mainland China, Hong Kong | Center for Earthquake Engineering Research, College of Engineering, National Taiwan University | Taipei | 29/11/2001 | 30/11/2001 |
| Public Construction Quality Management Training Course | Taiwan Construction Research Institute | Taipei | 04/12/2001 | 04/12/2001 |
| Seminar on Technology Regulation of Building-Design and Construction Specification for Foundation Structure | Taiwan Geotechnical Society | Taipei | 04/12/2001 | 04/12/2001 |
| Seminar on Distribution Substation Design | National Federation of Professional Electrical Engineers | Taipei | 07/12/2001 | 08/12/2001 |
| Year 2001 Sewer Engineering Seminar | Taiwan Sewerage Association | Taipei | 07/12/2001 | 07/12/2001 |
| The Fourteenth Southeast Asian Geotechnical Conference | Southeast Asian Geotechnical Society | Hong Kong | 10/12/2001 | 14/12/2001 |
| The 23th Conference on Oceanic Engineering | Industrial Development Bureau, MOEA, National Cheng Kung University | Tainan | 12/12/2001 | 13/12/2001 |
| 2001 NCHU-Waseda-Kobe U. Joint Seminar on Earthquake Engineering. | Department of Civil Engineering, National Chung Hsing University | Taichung | 17/12/2001 | 17/12/2001 |
| Seminar on Cross-Strait Modern Bridge Engineering | College of Engineering, National Taiwan University, China Engineering Consultants, Inc. | Taipei | 18/12/2001 | 19/12/2001 |
| Workshop on Public Construction Cost Estimation System (PCCES) | Taiwan Construction Research Institute | Taipei | 18/12/2001 | 19/12/2001 |
| Sewer System & Wastewater Treatment Operation & Maintenance | Construction & Planning Administration, Ministry of Interior | Taipei | 20/12/2001 | 20/12/2001 |
| Construction Dump Soil Two-Stage Declaration Training Course | Construction & Planning Administration, Ministry of Interior | Taipei | 27/12/2001 | 27/12/2001 |
| 2002 Asian Development Bank Business Opportunities Seminar | Board of Foreign Trade, MOEA | Taipei | 16/01/2002 | 16/01/2002 |
| CNLA/ISO-17025 Laboratory Quality Administration Training | Jyh Yuan Consultants, Co., Ltd. | Taipei | 23/01/2002 | 25/01/2002 |
| 2002 CNLA Annual Abbreviation of Laboratory's Principle | Chinese National Laboratory Accreditation | Hsinchu | 29/01/2002 | 29/01/2002 |
| The Way to Deal with Construction Contract after Joining WTO | Taiwan Construction Research Institute | Taipei | 25/02/2002 | 26/02/2002 |

 **TECHNICAL PUBLICATIONS**

CHUA, H.Y., SONG, T.F. and YEH, J.S. (2000), "Retrofit/Repairs of a Damaged Bridge for Seismic Loading", *Proc., 7th International Conference on Inspection, Appraisal, Repairs & Maintenance of Buildings and Structures*, 11-13 September, Nottingham, UK, pp. 269-276.

CHUA, H.Y. and CHANG, J. (2002), "Diseno Del Puente La Amistad de Taiwan, Rio Tempisque", *Proc., VII Seminario De Ingenieria Estructural Y Sismica*, 20-22 February, San Jose, Costa Rica (CD ROM).

CHUA, H.Y. SONG, T.F. and YEH, J.S. (2000), "A retrofitting Design of Yen Fon bridge in Central Taiwan after Chi-Chi Earthquake", *Proc., 10th Conf. of Road Engineering Association of Asia & Australasia*, September, Tokyo, Japan. (paper 129, in CD ROM)

CHUA, H.Y. YEN, T.L. FENG, Z.Y. and WU, L. (2000), "Influence of the Chelungpu Fault on a Highway Bridge Foundations and Contermeasure", *Proc., 10th Conf. of Road Engineering Association of Asia & Australasia*, September, Tokyo, Japan. (paper 259, in CD ROM)

CHUNG, C.T. SUN, C.W., DUANN, S.W. and HWANG, R.N. (2001), "Response of a Taipei Rapid Transit (TRTS) Tunnel to Adjacent Excavation, *accepted for publication, Jour. of Tunnelling and Underground Spaces*, Elsevier Science, Oxford, UK, November.

HSIUNG, B., NASH, D.F.T., CHENG, K.H., HUANG, C.C. and HWANG, R.N. (2001), "Effectiveness of Jet-Grout Slabs and Partition Panels in Restricting Wall Movements in Deep Excavation", *Proc., 14th Southeast Asian Geotechnical Conference*, 10-14 December, Hong Kong, Vol. 1, pp. 339-342.

HWANG, R.N. (2001), "Applications of GIS in Civil Engineering", *Proc., Seminar on the Use of GIS on Public Utilities*, 6-7 November, Hsinchu, Taiwan (in Chinese).

HWANG, R.N., HUANG, C.C., CHEN, H., LEE, C.T. and PAN, K.L. (2002), "Automation in Mapping of Environmental Sensitive Geological Features", *Sino-Geotechnics*, No. 90, April, Taipei, Taiwan (in Chinese).

HWANG, R.N. and SONG, Y.M. (2002), "Establishment of GIS Network for Civil Engineering", *National Geographic Information System News*, No. 41, March, Taipei, Taiwan (in Chinese).

KONG, S.K. (2001), "A Case Study – Stabilization Work to Unstable Crib Wall in Residual Granite", *Proc., 14th Southeast Asian Geotechnical Conference*, 10-14 December, Hong Kong, Vol. 2, pp. 1125-1130.

LIN, J.M., CHEN, K.S. and CHUA, H.Y. (2001), "The Design of Spring Supported Floor for Rotary Printing Presses", *Proc., Eight East Asia-Pacific Conference on Structural Engineering and Consturction, Challenges in the 21st Century*, 5-7 December, Singapore. (paper 1130, in CD ROM)

MOH, Z.C. (2001), Geotechnical Engineering in Infrastructure Development, 2001 Milton E. Bender Lecture, Asian Institute of Technology, *Geotechnical Engineering Journal*, Southeast Asian Geotechnical Society, Vol. 32, No. 2, pp. 107-132.

MOH, Z.C. (2001), Geotechnical Engineering and Infrastructure Development, Keynote Lecture, *Proc. Ninth Conference on Current Researches in Geotechnical Engineering in Taiwan*, Taoyuan, Taiwan, Taiwan Geotechnical Society (CD ROM), (in Chinese)

MOH, Z.C. and LIN, P.C. (2002), "From Cobra Swamp to International Airport – the Ground Improvement at Suvarnabhumi International Airport", *Proc., 4th International Conf., on Ground Improvement Techniques*, Vol. 1, pp. 99-112, CI-Premier, Singapore.

PERSONNEL MOVEMENTS

▶ NEW APPOINTMENTS

| ENGLISH NAME | CHINESE NAME | DEPARTMENT | TITLE | EFFECTIVE DATE |
|--------------------|--------------|------------------------------------------|-------------------------------|----------------|
| Chun-Ta Lin | 林俊達 | Structural Engineering Dept. | Structural Engineer II | 02/04/2001 |
| Ting-Fang Feng | 馮定方 | High Speed Rail Project | Civil Engineer II | 02/04/2001 |
| Jing-Fang Chiang | 江靜芳 | High Speed Rail Project | Civil Engineer II | 03/04/2001 |
| Ya-Chi Chang | 張雅琪 | Development & Planning Dept. | Planner II | 06/04/2001 |
| Hann-Chieh Tsai | 蔡漢傑 | Geotechnical Engineering Dept. | Geotechnical Engineer II | 27/04/2001 |
| Jong-Chih Chen | 陳榮治 | Electric & Mechanical System Engg. Dept. | Senior Electrical Engineer II | 01/05/2001 |
| Wei-Jun Chung | 鍾維鈞 | Geotechnical Engineering Dept. | Geotechnical Engineer II | 02/05/2001 |
| Mong-Tang Wu | 吳孟達 | High Speed Rail Project | Structure Engineer II | 04/05/2001 |
| Yi-Hsiang Chang | 張鼎翔 | Structural Engineering Dept. | Civil Engineer II | 01/06/2001 |
| Chia-Huei Lee | 李佳慧 | High Speed Rail Project | CADD Operator | 18/06/2001 |
| Yuh-Chun Shiao | 蕭悅吾 | Administration Dept. | Word Processor III | 18/06/2001 |
| Pei-Yao Lin | 林沛堯 | High Speed Rail Project | Structural Engineer I | 26/06/2001 |
| Chuang-Sheng Chueh | 闕壯陞 | High Speed Rail Project | Geotechnical Engineer II | 26/06/2001 |
| Chin-Sheng Shu | 舒晉盛 | High Speed Rail Project | Civil Engineer II | 05/07/2001 |
| Ming-Chien Hsu | 徐銘謙 | Structural Engineering Dept. | Structural Engineer II | 09/07/2001 |
| Shu-Yng Chen | 陳淑瑩 | High Speed Rail Project | CADD Operator | 09/07/2001 |
| Chen-Chen Tsai | 蔡貞珍 | Geomatics Dept. | GIS Engineer II | 09/07/2001 |
| Chih-Ming Huang | 黃志民 | Kaohsiung Office | Site Assistant | 05/07/2001 |
| Tso-An Yu | 于作安 | Geotechnical Engineering Dept. | Geotechnical Engineer II | 16/07/2001 |
| Cheng-Yu Lu | 呂政諭 | Geotechnical Engineering Dept. | Geotechnical Engineer II | 16/07/2001 |

| ENGLISH NAME | CHINESE NAME | DEPARTMENT | TITLE | EFFECTIVE DATE |
|------------------|--------------|---------------------------------------|--------------------------|----------------|
| Chao-Chia Chen | 陳肇嘉 | Construction Management Dept. | Civil Engineer III | 16/07/2001 |
| Jin-Ren Wang | 王俊仁 | Construction Management Dept. | Senior Technician | 01/08/2001 |
| Mong-Ling Shu | 許夢玲 | Administration Dept. | Clerical Assistant | 01/08/2001 |
| Tsang-Cherng Lin | 林倉丞 | Construction Management Dept. | Civil Engineer II | 06/08/2001 |
| Te-Zi Liu | 劉得慈 | High Speed Rail Project | CADD Operator | 13/08/2001 |
| Ping-Ching Tang | 陸炳津 | Transportation & Civil Engg. Dept. I | Civil Engineer I | 15/08/2001 |
| Cheng-Hsien Chou | 鄒政憲 | High Speed Rail Project | Civil Engineer II | 16/08/2001 |
| Chih-Hung Wu | 吳志宏 | Geotechnical Engineering Dept. | Geotechnical Engineer II | 20/08/2001 |
| Pei-Rong Lin | 林佩蓉 | Information Center | CADD Operator | 20/08/2001 |
| Kuo-Cheng Cheng | 鄭國政 | Construction Management Dept. | Civil Engineer II | 22/08/2001 |
| Chih-Tsung Lin | 林志聰 | High Speed Rail Project | Civil Engineer II | 24/08/2001 |
| Wen-Shuo Chang | 張碩碩 | Transportation & Civil Engg. Dept. II | Civil Engineer II | 27/08/2001 |
| Yao-Hung Wang | 王堯弘 | Geotechnical Engineering Dept. | Geotechnical Engineer II | 20/08/2001 |
| San-Ren Tsai | 蔡聖仁 | High Speed Rail Project | Civil Engineer II | 27/08/2001 |
| Wen-Yang Chou | 周文陽 | High Speed Rail Project | Structural Engineer II | 29/08/2001 |
| Yung-Chei Yang | 楊詠傑 | Administration Dept. | General Affairs Clerk II | 30/08/2001 |
| Yun-Chee Hsu | 許申綺 | High Speed Rail Project | Civil Engineer II | 03/09/2001 |
| Chih-Hung Lin | 林志宏 | Transportation & Civil Engg. Dept. I | Civil Engineer II | 03/09/2001 |
| Cheng-Li Hsu | 許正立 | High Speed Rail Project | Geotechnical Engineer II | 03/09/2001 |
| Chi-Kun Liao | 廖溪堃 | Transportation & Civil Engg. Dept. II | Civil Engineer II | 03/09/2001 |
| Yuan-Don Wu | 吳遠東 | Geotechnical Engineering Dept. | Technician I | 03/09/2001 |
| Hui-Chun Lee | 李蕙芸 | Administration Dept. | Clerical Assistant | 03/09/2001 |

| ENGLISH NAME | CHINESE NAME | DEPARTMENT | TITLE | EFFECTIVE DATE |
|--------------------|--------------|------------------------------------------|---------------------------------|----------------|
| Chieh-Wen Sun | 孫介文 | High Speed Rail Project | Geotechnical Engineer I | 10/09/2001 |
| Nai-Wu Weng | 翁乃武 | Transportation & Civil Engg. Dept. II | Civil Engineer II | 10/09/2001 |
| Ming-Sung Chang | 張明順 | Construction Management Dept. | Civil Engineer I | 11/09/2001 |
| Ruei-Feng Chang | 張瑞峰 | Construction Management Dept. | Civil Engineer II | 11/09/2001 |
| Shian-Tzu Yang | 楊先枝 | Construction Management Dept. | Driver | 19/09/2001 |
| Wen-Wei Yu | 余文偉 | High Speed Rail Project | Civil Engineer II | 20/09/2001 |
| Lien-Chun Tsui | 崔連崑 | Transportation & Civil Engg. Dept. I | Senior Technician | 24/09/2001 |
| Yi-Yang Chen | 陳亦揚 | Structural Engineering Dept. | Structural Engineer II | 02/10/2001 |
| Cheng-Wei Yu | 余正偉 | Geotechnical Engineering Dept. | Geotechnical Engineer II | 15/10/2001 |
| Chih-Hung Lai | 賴志弘 | High Speed Rail Project | Civil Engineer I | 16/10/2001 |
| Chung Wan | 黃鍾 | Electric & Mechanical System Engg. Dept. | Civil Engineer II | 24/10/2001 |
| Chia-Huang Li | 李嘉昇 | Structural Engineering Dept. | Structural Engineer II | 01/11/2001 |
| Tu-Cheng Fang | 方篤誠 | Geotechnical Engineering Dept. | Geotechnical Engineer II | 12/11/2001 |
| Hung-Jen Cheng | 程宏仁 | Environment Protection Dept. | Civil Engineer II | 26/11/2001 |
| Yu-Lin Hsu | 徐玉玲 | Construction Management Dept. | Senior Technician | 01/02/2002 |
| Ta-Chun Yao | 姚大鈞 | Geotechnical Engineering Dept. | Senior Geotechnical Engineer II | 22/03/2002 |
| Norilah Bt. Ismail | | MAA (M) | Draftsperson | 08/03/2002 |



| ENGLISH NAME | CHINESE NAME | DEPARTMENT | FROM | TO | EFFECTIVE DATE |
|-----------------|--------------|----------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------|----------------|
| Chin-Der Lin | 林 金 德 | Environmental Protection Dept. | Deputy Manager | Manager | 16/06/2001 |
| Wen-Sheng Lin | 林 宥 盛 | Second Freeway Nantou Section Construction Project | Senior Civil Engineer II | Senior Civil Engineer II & Deputy Project Manager | 16/11/2001 |
| Win-Bin Hsu | 許 宥 斌 | Dajia-Changben Supervision Office of Taiwan Central Second Freeway Project | Senior Engineer II & Project Manager | Senior Engineer I & Project Manager | 01/01/2002 |
| Wen-Yeong Huang | 黃 宥 勇 | Dajia-Changben Supervision Office of Taiwan Central Second Freeway Project | Senior Technician | Civil Engineer III | 01/01/2002 |
| Jiun-Jye Wong | 王 俊 傑 | Dajia-Changben Supervision Office of Taiwan Central Second Freeway Project | Senior Technician | Civil Engineer III | 01/01/2002 |
| Ming-Fong Song | 宋 銘 峰 | Geotechnical Engineering Dept. | Geotechnical Engineer II | Geotechnical Engineer I | 01/01/2002 |
| Chien-Wei Chen | 陳 建 維 | Geotechnical Engineering Dept. | Geotechnical Engineer II | Geotechnical Engineer I | 01/01/2002 |
| Shaw-Wei Duann | 段 紹 緯 | High Speed Rail Project | Senior Geotechnical Engineer II & Deputy Project Manager | Senior Geotechnical Engineer I & Deputy Project Manager | 01/01/2002 |
| Chih-Wei Lu | 盧 志 偉 | High Speed Rail Project | Senior Programmer | System Engineer | 01/01/2002 |
| Yung-Jen Sheu | 許 永 健 | High Speed Rail Project | Civil Engineer II | Civil Engineer I | 01/01/2002 |
| Chyi-Lin Shyr | 石 麟 麟 | Kaohsiung New Town Project | Senior Technician | Civil Engineer III | 01/01/2002 |
| Chin-Yi Chiang | 蔣 進 益 | Structural Engineering Dept. | Structural Engineer II | Structural Engineer I | 01/01/2002 |
| Fuan-Chang Wong | 翁 煥 昌 | Structural Engineering Dept. | Structural Engineer II | Structural Engineer I | 01/01/2002 |
| Kun-Sung Chen | 陳 坤 聰 | Structural Engineering Dept. | Structural Engineer II | Structural Engineer I | 01/01/2002 |
| Chia-Jui Lin | 林 佳 銳 | Transportation & Civil Engg. Dept. I | Senior Technician | Civil Engineer III | 01/01/2002 |
| Jyh-Min Shih | 施 致 民 | Transportation & Civil Engg. Dept. I | Civil Engineer II | Civil Engineer I | 01/01/2002 |
| Sheng-Wen Lin | 林 聖 宥 | Transportation & Civil Engg. Dept. II | Senior Technician | Civil Engineer III | 01/01/2002 |
| Chun-Shan Chien | 簡 吉 珊 | Transportation & Civil Engg. Dept. II | Civil Engineer II | Civil Engineer I | 01/01/2002 |
| Sheng-Kai Yang | 楊 勝 凱 | Transportation & Civil Engg. Dept. II | Civil Engineer II | Civil Engineer I | 01/01/2002 |

AWARDS

MAA Taiwan presented Staff-of-the-Year Award and Merit Awards for year 2001 to the following staff:

STAFF- OF-THE-YEAR AWARDS



Mr. Sheng-Sheng MAO (毛聖生)



Senior Environmental Engineer II, received the 2001 Award for his positive and responsible working attitude on a number of environmental protection engineering project. He has demonstrated good leadership to his fellow engineers.

MERIT AWARDS

Besides special contribution to projects, Merit Awards were given to a number of staff who have selflessly devoted extra efforts, energy and time to help the MAAT to recover from the 521 fire disaster in 2001. Contributions from all the staff in the MAA Group for the quick reconstruction of MAAT cannot be over emphasized. Besides those received awards, appreciations are due to every staff in the company.

| ENGLISH NAME | CHINESE NAME | DEPARTMENT | TITLE | PROJECT |
|----------------|--------------|---------------------------------|---------------------------|------------------------------------------|
| Yu-Bo Hwang | 黃于琄 | Environmental IProtection Dept. | Environmental Scientist I | EIA of Ta-Nan-Au Pump Storage Project |
| Jinn-Hwa Yeh | 葉晉華 | Kaohsiung Office | Civil Engineer III | KMRT R11-R16&01-05 Utility Investigation |
| Shuu-Chin Wang | 王素金 | Financial Dept. | Manager | Fire Disaster Reconstruction |
| Jin-Hwa Wu | 吳金華 | Information Center | Deputy Manager | Fire Disaster Reconstruction |
| Ru-Song Hsu | 許如松 | Administration Dept. | Deputy Manager | Fire Disaster Reconstruction |
| Li-Teh Yang | 楊立德 | Business Development Dept. | Deputy Manager | Fire Disaster Reconstruction |
| Shih-Hung Chen | 陳士宏 | Construction Management Dept. | Civil Engineer I | Fire Disaster Reconstruction |
| Yun-Hui Lai | 賴時璋 | Construction Management Dept. | Civil Engineer II | Fire Disaster Reconstruction |

| ENGLISH NAME | CHINESE NAME | DEPARTMENT | TITLE | PROJECT |
|-----------------|--------------|-----------------------------------------|---------------------------------|------------------------------|
| Kai-Wen Chiang | 蔣凱文 | Information Center | Geotechnical Engineer I | Fire Disaster Reconstruction |
| Jyh-Shiou Jeng | 鄭志修 | Information Center | Senior Programmer | Fire Disaster Reconstruction |
| Huey-Jiun Guo | 郭惠君 | Information Center | Computer Operator | Fire Disaster Reconstruction |
| Lih-Chun Sung | 宋麗春 | Financial Dept. | Section Chief | Fire Disaster Reconstruction |
| Hsiu-Li Lin | 林秀麗 | Financial Dept. | Accountant II | Fire Disaster Reconstruction |
| Shu-Ling Hsieh | 謝淑玲 | Financial Dept. | Cashier I | Fire Disaster Reconstruction |
| Sheue-Fen Chen | 陳雪芬 | Administration Dept. | Group Leader | Fire Disaster Reconstruction |
| Shiu-Wen Chiang | 江秀雯 | Administration Dept. | Personnel Clerk III | Fire Disaster Reconstruction |
| Lung-Yin Cheng | 鄭隆印 | Administration Dept. | Group Leader | Fire Disaster Reconstruction |
| Jenn-Horng Lian | 連振弘 | Administration Dept. | Driver | Fire Disaster Reconstruction |
| Ching-Lang Wu | 吳慶郎 | Administration Dept. | Driver | Fire Disaster Reconstruction |
| Ching-Long Jean | 簡慶龍 | Administration Dept. | Driver | Fire Disaster Reconstruction |
| Yaw-Wen Wang | 王耀文 | Administration Dept. | Driver | Fire Disaster Reconstruction |
| Jyh-Shyong Yang | 楊智雄 | Administration Dept. | Messenger | Fire Disaster Reconstruction |
| Tien-chen Yang | 楊天振 | Transportation & Civil Engg. Dept. I | Senior Civil Engineer II | Fire Disaster Reconstruction |
| Jyh-Min Shih | 施致民 | Transportation & Civil Engg. Dept. I | Civil Engineer I | Fire Disaster Reconstruction |
| Jen-Chuen Moh | 莫仁維 | President Office | Special Assiant to President | Fire Disaster Reconstruction |

▶ LONG-YEARS SERVICE AWARDS

Congratulations to the following staff who have received long-years service award for year 2001 at annual dinner parties held in January 2002.

| AWARD TYPE | COMPANY | ENGLISH NAME | CHINESE NAME | POSITION HELD |
|------------------|---------|-------------------|--------------|--------------------------------------------------------------------|
| 25 years service | MAAT | Ku-I Hsiung | 熊谷 鑑 | Senior Vice President |
| | MAAT | Win-Shan Guo | 郭 立 祥 | Principal Engineering Geologist |
| | MAAT | Yung-Tao Hsu | 徐 永 燾 | Civil Engineer II |
| | MAAT | Wen-Kai Tan | 譚 立 凱 | Security Officer |
| 20 years service | MAAT | Lih-Chun Sung | 宋 麗 香 | Section Chief |
| | MAAT | Huat-Yoo Chua | 蔡 添 耀 | Senior Structural Engineer I & Manager |
| | MAAT | Zun-Gwo Lee | 李 潤 厚 | Senior Geotechnical Engineer II |
| | MAAT | Li-Chiou Liaw | 廖 麗 秋 | CADD Designer III |
| 15 years service | MAAT | Shaw-Wei Duann | 段 紹 緯 | Senior Geotechnical Engineer I & Deputy Project Manager |
| | MAAT | Kuang-Ming Chen | 陳 光 明 | Civil Engineer I |
| 10 years service | MAAT | Ming-Hsi Chen | 陳 明 熙 | Civil Engineer I |
| | MAAT | Hsiang-Jung Lin | 林 向 榮 | Senior Civil Engineer II & Deputy Project Manager & Deputy Manager |
| | MAAT | Yee Ng | 任 子 | Senior Civil Engineer II |
| | MAAT | Chang-Chung Huang | 黃 建 忠 | Senior Engineer Geologist II & Deputy Manager |
| | MAAT | Ren-Chi Chen | 陳 仁 齊 | Geotechnical Engineer II |
| | MAAT | Pen-Chi Lin | 林 本 驊 | Senior Geotechnical Engineer II |
| | MAAT | Chen-Hui Hsieh | 謝 震 輝 | Senior Structural Engineer II |
| | MAAT | Yu-Chuan Fu | 符 玉 泉 | Civil Engineer I |
| | MAAT | Tzu-Lien Huang | 黃 姿 蓮 | Geotechnical Engineer I |
| | MAAT | Kuei-Ying Chen | 陳 桂 英 | Librarian |
| | MAAT | Hui-Hung Wang | 王 惠 虹 | Civil Engineer III |
| | MAAT | Pih -Yun Lin | 林 碧 雲 | Secretary II |
| | MAAT | Shu-Hui Perng | 彭 淑 惠 | CADD Designer III |
| 5 years service | MAAT | Feng-Chu Yang | 楊 慶 珠 | CADD Operator I |
| | MAAT | Chin Laung Lai | 賴 錦 郎 | Driver |

PERSONNEL PROFILES

Dr. Ta-Chun (Daniel) YAO (姚大鈞)



Dr. Ta-Chun (Daniel) YAO (姚大鈞), a 1988 graduate of the National Taiwan University, received his M.S. degree from the University of Michigan in 1994 and Ph.D. from the University of Colorado at Boulder in 1998. After working in the USA for about 3 years, Dr. Yao joined MAA Taiwan as a Senior Geotechnical Engineer II in February 2002. Dr. Yao's experience included geotechnical exploration over land, near shore and in deep sea. He was also involved in sanitary landfill design, land reclamation work, wetland study and research on disposal of dredged materials. Dr. Yao is a Registered Professional Engineer in the State of California, USA.

Mr. Jong-Chih CHEN (陳榮治)



Mr. Jong-Chih CHEN (陳榮治), a veteran electrical engineer for more than 20 years, joined MAA Taiwan as a Senior Electrical Engineer II in May 2001. Mr. Chen graduated from the National Taipei Institute of Technology (now National Taipei University of Technology) in 1975 and has worked in the Taiwan Provincial Housing and Urban Development Bureau for more than 15 years, rising from the rank to the position of Deputy Chief of Construction Department of the Bureau. After taking early retirement in 1990, Mr. Chen established his own practice as a Professional Electrical Engineer until he joined MAA. Mr. Chen has undertaken design work of electrical facilities for many infrastructure and building projects in Taiwan.



亞新工程顧問股份(集團)公司

MAA Group Consulting Engineers

TAIPEI KAOHSIUNG HONG KONG SINGAPORE PENANG
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