On 9-13 December 2002, the Department of Civil and Structural Engineering, The Hong Kong Polytechnic University, organized a workshop on advanced modeling for transit operations and service planning in Hong Kong. This workshop was sponsored by the Croucher Foundation and took place at the Harbour Plaza Metropolis, Hong Kong. Prof. Y.K. Cheung, Croucher Trustee, The Croucher Foundation, was invited to deliver the opening address in the opening session. Prof. Cheung received warm welcome from Prof. Y.S. Li, Head of the Department of Civil and Structural Engineering.



Prof. Y.K. Cheung delivered the opening address



Prof. Y.S. Li presented the souvenir to Prof. Y.K. Cheung

In total, 51 participants attended this workshop; including the PhD's students, engineers and professors from the oversea and local universities. At the workshop, SIX internationally known experts on transit planning and modeling, to give a series of lectures and to participate in discussions. Dr. Dorothy Chan, the former Deputy Commissioner for Transport of Hong Kong SAR, was invited to give a presentation on "Public Transport Development – Review and Challenges" in Hong Kong.

Day 1, 9 December 2002

Morning Session

- ♦ Sketch planning for Urban Bus Transit System
- ♦ Sketch planning for Urban Rail Transit System

Prof. S.C. Wirasinghe University of Calgary, Canada



Prof. S.C. Wirasinghe

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Afternoon Session (1)

- Public Transport Development Review and Challenges
 Dr. Dorothy Chan, the Former Deputy Commissioner for Transport, Hong Kong SAR
- 2. Research on Urban Public Passenger Transport Planning of Daqing City Prof. Yulong Pei, Harbin Institute of Technology, China
- 3. Operation of Urban Bus Transportation in Japan Experiences and Researches Dr.. Fumihiko Nakamura, Yokohama National University, Japan

The Hong Kong
Polytechnic University
Dept. of Civil & Structural
Engineering



Afternoon Session (2)

- 1. Transit Network Analysis: Issues and Developments in Japan *Prof. Ryuichi Kitamura, Kyoto University, Japan*)
- 2. Transit Travel Demand Estimation by Schedule Based Transit Assignment using Passenger Counts Prof. Seungjae Lee, The University of Seoul, Korea)
- 3. Estimation of Transit Passenger Origin-Destination Matrices from Passenger Counts in Congested Transit Networks

Prof. William H.K. Lam, The Hong Kong Polytechnic University, Hong Kong)



Prof. William H.K. Lam, Chairman of Organizing Committee, thanked Dr. Dorothy Chan for her talk



Prof. William H.K. Lam responded to questions from participants

Welcome Dinner in the Harbour Plaza Metropolis



(L to R) Mrs. and Prof. W.H.K. Lam, Mrs. and Prof. A. Ceder, Mrs. and Prof. Y.K. Cheung, and Prof. M.G.H. Bell



(L to R) Dr. F. Nakamura, Dr. J.M.S.J. Bandara, Prof. R. Kitamura and Prof. Y.L. Pei



(L to R) Dr. Y.F. Yin, Prof. J. Zhou, Dr. H. Yang, Dr. H.K. Lo and Prof. O.A. Neilsen



(L to R) Mrs. and Prof. P.H.L. Bovy, Dr. S. Hoogendoorn, Dr. R.V. Nes, Mrs. S. Hoogendoorn and Mrs. S.F. Catalano

Day 2, 10 December 2002

Morning Session

- ♦ Timetabling and Vehicle Scheduling
- ♦ Design of Transit Networks and Routes

Prof. A. Ceder Technion Israel Institute of Technology, Israel



Prof. A. Ceder

Afternoon Session (1)

- Multimodal Transit Modeling in Singapore
 Dr. Soi-hoi Lam, Namyang Technological University, Singapore
- 2. Modeling Competitive Multi-modal Services

 Dr. Hong K. Lo, The Hong Kong University of Science and Technology, Hong Kong
- 3. Multimodal Travelling and its Impact on Public Transport Network Design Dr. Rob van Nes, Delft University of Technology, Netherlands

Afternoon Session (2)

- 1. An Intelligent Monitoring System for Highway Bus Transit Operation Prof. Lawrence W. Lan, National Chiao Tung University, Taiwan)
- 2. A Simulation-based Reliability Assessment Approach for Congested Transit Network Dr. Yafeng Yin, University of California, USA
- 3. Reinforcement Learning Algorithm for Transit Headway Control at Traffic Signal Dr. Amer Shalaby, University of Toronto, Canada



Prof. Lawrence W. Lan responded to questions from participants



Day 3, 11 December 2002



Prof. A. Nuzzolo

Morning Session

- ♦ Transit Path Choice & Assignment Model Approaches
- ♦ Schedule-based Transit Assignment Models

Prof. A. Nuzzolo "Tor Vergata" University of Rome, Italy

Afternoon Session (1)

- 1. Methodology for Planning Primary Route Network of a Regional Bus Service in a Developing Country
 - Dr. J.M.S.J. Bandara, University of Moratuwa, Sri Lanka
- 2. Optimization of Public Transportation Schedule in Two Ways Route Based on Service Zone Dr. Sutanto Soehodho, University of Indonesia, Indonesia
- 3. 2-Phase Transit Network Design in an Integrated Transit System Quentin K. Wan, The Hong Kong University of Science and Technology, Hong Kong

Afternoon Session (2)

♦ Panel Discussion

Chairperson: Prof. M. Florian

Members: Prof. A. Ceder and Prof. A. Nuzzolo



Dr. S. Soehodho presented his works



(L to R) Prof. A. Ceder, Prof. A. Nuzzolo and Prof. M. Florian responded to questions from participants

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Day 4, 12 December 2002



Prof. M. Florian

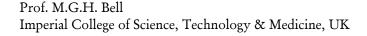
Morning Session (1)

♦ Frequency-based Transit Assignment Models

Prof. M. Florian University of Montreal, Canada

Morning Session (2)

 Capacity Constraint Transit Assignment Models and Reliability Analysis





Prof. M.G.H. Bell

Afternoon Session (1)

- 1. Research on the Theory and Methodology about Urban Transit Network Equilibrium Assignment Dr. Quansheng Lei, Northern Jiaotong University, China
- 2. Network Loading Algorithm in a Schedule-based Congested Transit Network Dr. M.H. Poon, Highway Department, Hong Kong
- 3. Timetable-based Transit Assignment with Error Components in the Utility Functions Prof. Otto Anker Nielsen, Technical University if Denmark, Denmark

Afternoon Session (2)

- 1. A Multi-period Dynamic Taxi Service Model with Endogenous Service Intensity Dr. Hai Yang, The Hong Kong University of Science and Technology, Hong Kong
- Park-and-Ride Location and Price Optimisation in a Linear Monocentric City with Deterministic Mode Choice
 - Judith Y.T. Wang, The Hong Kong University of Science and Technology, Hong Kong
- 3. Cooperative and Competitive Fare Strategies in the Transit Market with Elastic Demand *Prof. Jing Zhou, Nanjing University, Hong Kong*





Dr. H. Yang presented his paper

Farewell Dinner in 14/F Li Ka Shing Tower, The Hong Kong Polytechnic University



(L to R) Prof. H. Mahmassani, Prof. S.C. Wirasinghe, Prof. and Mrs. Y.K. Cheung



(L to R) Mrs. and Prof. M. Florian, Mrs. and Prof. A. Ceder, Prof. J.M. Ko, Prof. M.G.H. Bell and Prof. A. Nuzzolo



(L to R) Prof. L.W. Lan, Prof. O.A. Nielsen, Prof. W.H.K. Lam, Dr. H.K. Lo and Prof. P.H.L. Bovy



(L to R) Dr. N. Zhang, Dr. C.O. Tong, Dr. U. Crisalli and Dr. P. Copppla

Day 5, 13 December 2002

Morning Session

- ♦ ATIS and User Behavior in Travel Choices
- ♦ DYNASMART-IP: Dynamic Traffic Assignment Meso-Simulator for Intermodal Networks

Prof. H. Mahmassani University of Maryland, USA



Prof. H. Mahmassani

Afternoon Session (1)

- 1. Network Equilibrium for Congested Multi-mode Networks with Elastic Demand Z.X. Wu, The Hong Kong Polytechnic University, Hong Kong
- 2. Simultaneous Optimization of Transit Line Configuration and Passenger Line Assignment on a Minimum Tree Network
 - Dr. Hai Yang, The Hong Kong University of Science and Technology, Hong Kong
- Tools for Walking Infrastructure Design: Continuous Time and Space Dynamic User-Optimal Assignment Models
 - Dr. Serge Hoogendoorn, Delft University of Technology, Netherlands
- 4. Estimation of Time-dependent Origin-destination Matrices in Transit Networks Dr. S.C. Wong, The University of Hong Kong, Hong Kong

Afternoon Session (2)

♦ Panel Discussion

Chairperson: Prof. M.G.H. Bell

Members: Prof. M. Florian and Prof. H. Mahmassani



Dr. S. Hoogendoorn responded to questions from participants



(L to R) Prof. M. Florian, Prof. H. Mahmassani and Prof. M.G. H. Bell answering the participant's questions

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