



EASTS NEWSLETTER

Eastern Asia Society for Transportation Studies

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MESSAGE FROM THE PRESIDENT OF THE EASTS



My warm greetings as we begin the new century and the millennium. One cannot help but reflect on man's accomplishments in the field of transportation during the last century. Indeed, much has been achieved. The world

has become one global village through the existence of extensive transportation and telecommunication facilities that overcome spatial barriers. Space travel is now possible with men even landing on the moon.

Unfortunately, the science and technology that put men on the moon have not been very successful in tackling man-made problems. A wide gap still exists on the state-of-the-art of transportation systems among nations. While developed nations are trying to develop and introduce advanced technology such as intelligent transportation systems, developing nations are still grappling with the basic problem of providing adequate infrastructure capacity. Traffic congestion and environmental deterioration remain major concerns of many cities.

The challenge facing us is to ensure that by the turn of this century, all economies will enjoy a much better quality of life, with the gap in standard of living among nations drastically reduced. Movements of persons and goods should be safe, efficient, environment-friendly and sustainable, much less dependent on non-renewable form of energy. Barriers to cross border movements should be minimized through the use of multi-modal transport. For domestic travel, alternative and competitive forms of transport should be available to give people choices.

The Eastern Asia Society for Transportation Studies (EASTS) can make significant contribution to improving the transportation systems in the region. A large number of transportation experts would be required to formulate and implement transportation development programs. A good human resource development program must be in place to create this expanding pool of experts. This is one of the key objectives of our Society. The Board of Directors of the Society has prepared a program of activities to meet this objective. This includes participation in international conventions and conferences, international cooperative researches, and various competitions. Member domestic societies and their members are therefore enjoined to get more involved in the affairs of the society and ensure a better quality of life for mankind this century.

EASTS '99 IN REVIEW

SUMMARY OF EASTS '99 CONFERENCE

Local Organizing Committee Report

The Third Conference of Eastern Asia Society for Transportation Studies(EASTS '99) was held successfully at the Grand Hotel in Taipei from 15th to 17th of September 1999, with close to 350 delegates participating.

Looking back at the three EASTS conferences since 1995, this biennial conference certainly has become a major event among most of the transportation societies within the Eastern Asian region. The conference has not only been able to offer great opportunities for the exchange of knowledge and ideas, but also provided views in all aspects of advanced transportation of today.

Taipei this year had the great honor of being the host of the EASTS '99 conference with the theme "Sustainable Transport for the 21st Century". As the conference host, the Chinese Institute of Transportation (CIT) and the Local Organizing Committee (LOC) made every effort in order to provide an ideal environment for all the elite of the transportation field in the various countries to share their constructive experiences and knowledge with each other while welcoming the arrival of the new millennium.

The overall technical program included 36 technical sessions and two panel discussion sessions. The panel discussion topics were on Private Participation in Transportation Infrastructure Development and Sustainable Development and Transportation Solution in Eastern Asia, moderated by Dr. Primitivo C. Cal and by Dr. Chi-Kuo Mao, respectively. A total of 161 refereed papers were included in this year's Journal of EASTS and a total of 34 non-reviewed papers were published in the Proceedings of EASTS, providing all participants with excellent reference.

A Technical tour was arranged providing opportunities for participants to experience various advanced transportation facilities in Taipei City such as the Taipei Rapid Transit System and Exclusive Bus Lane System.

A total of 345 persons from eighteen countries participated with the following breakdown:

| Country | Number of Participants |
|----------------|-------------------------------|
| Australia | 4 |
| Bangladesh | 1 |
| China | 11 |
| France | 1 |
| Hong Kong | 1 |
| Indonesia | 18 |
| Japan | 101 |
| Korea | 34 |
| Malaysia | 1 |
| Mexico | 1 |
| New Zealand | 1 |
| Philippines | 17 |
| Singapore | 2 |
| Sweden | 1 |
| Taiwan | 127 |
| Thailand | 15 |
| Vietnam | 8 |
| United Kingdom | 1 |



Opening Ceremony of EASTS 1999

INTERNATIONAL SCIENTIFIC COMMITTEE REPORT OF EASTS '99

by *Kazuaki MIYAMOTO, Chairperson, International Scientific Committee (ISC), EASTS*

First of all, on behalf of the International Scientific Committee (ISC), EASTS, it is my great honor and pleasure to report to you that EASTS '99 has contributed much to the mission of EASTS to understand complex issues and to answer the questions raised from transportation related problems in the region in a systematic, scientific and scholarly manner. There were 195 paper presentations in 36 technical sessions aside from a special lecture by Prof. Hideo Nakamura and two panel discussions.

The Journal of the Eastern Asia Society for Transportation Studies was published and distributed on site. The Journal includes 161 papers that ISC has selected from 242 full papers submitted for review with the help of independent peer referees plus one invited paper. The rate of selection is 66.5%. The selection has been conducted for all the papers with strict impartiality as described in the Journal (may also be viewed at www.rs.civil.tohoku.ac.jp/~isc-east/). As for the distribution of the topics in the Journal, compared with the Journal of EASTS'97, papers on environment, intelligent transportation system (ITS), and

project evaluation and finance have increased significantly, whereas those on non-motorized transport and Para-transit have shrunk. As for the overview of the different disciplines of transportation, the majority of the papers are definitely in the field of engineering. I hope that more papers in the fields of economics, finance, legal framework and history will be presented for the next Journal. Let me add that non-reviewed papers, which were also presented at the conference, are included in the Proceedings of the 3rd Conference of EASTS, which were published separately from the Journal.

Prizes were awarded to the following papers that were selected by Awarding Sub-Committee (ASC) chaired by Prof. Tschangho John Kim.

The **Professor Yasoshima Prize** was given to **Pongrid Klungboonkrong** for the paper on *A Microcomputer-aided System for the Multicriteria Environmental Impacts Evaluation: The City of Unley Case Study, Australia*.

On the other hand, the **EASTS Awards** were conferred to the following:

1. **Eiichi Taniguchi and Dai Tamagawa** for *Concepts and Evaluation of City Logistics Initiatives by Dynamic Traffic Simulation*,
2. **Chungwon Lee and Randy B. Mechemehl** for *Solving the Interaction between Signal Control and Traffic Assignment: Global, Local and Iterative Searchers*,
3. **Joseph Kwame Affum and Lex Brown** for *Estimating Urban Air Pollution Levels from Road Traffic in TRAEMS*,
4. **Tien-Peng Hsu and Chia-Ting Lu** for *Bus Lane Capacity: A Revised Approach*, and
5. **Yoriyasu Sugie, Junyi Zhang and Akimasa Fujiwara** for *Dynamic Discrete Choice Models Considering Unobserved Heterogeneity with Mass Point Approach*.

In conclusion, I would like to extend my sincere thanks to ISC and ASC members, referees, Local Organizing Committee and ISC secretariat staff for their kind cooperation and enormous help.



ISC in session

FROM THE OFFICE OF THE SECRETARY GENERAL



The 6th Board Meeting of the Eastern Asia Society for Transportation Studies (EASTS) was held last September 14-16, 1999 in Taipei, Taiwan. Reports by the Local Organizing Committee (LOC), the International Scientific Committee (ISC), and the respective Domestic Societies were rendered. One significant development during the report of the ISC was the proposal of Mr. Shigeru Morichi and the subsequent approval of the Board for the establishment of the Yasoshima Prize, in honor of Dr. Yasoshima, Professor Emeritus of the University of Tokyo.

Mr. Tetsuo Yai reported on the activities of EASTS for 1999: the publication of EASTS newsletter, updating of EASTS Web site, and the conduct of international cooperative researches such as the Incheon Airport Access Study whose data was collected by the Korean Transport Institute (KOTI).

Moving on to future activities, Mr. Morichi informed the body of the President's program for the new millennium which shall include the institution of new awards, namely: Outstanding Transportation Project Award, Best Domestic Society Award, and the Transportation Landmark Photo Contest, to be chaired by Mr. Inwon Lee, Dr. Tien Fwa, and Dr. Tetsuo Yai, respectively, and the Publication of Annual Journal.

It was also agreed upon by the Board that for the next EASTS conference, duration of the technical sessions shall be extended to 2 and 1/2 days from the original 2 days to encourage more dynamic and thorough discussions.

During the last day of the Board Meeting, the election of Board officers and members was conducted with the following results:

| | |
|---------------------------|--|
| <i>President</i> | Mr. Primitivo C. Cal (Philippines) |
| <i>1st Vice-President</i> | Mr. Cheng-Min Feng (Taiwan) |
| <i>2nd Vice-President</i> | Mr. Nguyen Xuan Dao (Vietnam) |
| <i>Secretary General</i> | Mr. Shigeru Morichi (Japan) |
| <i>Treasurer</i> | Mr. Haruo Ishida (Japan) |
| <i>ISC Chairman</i> | Mr. Kazuaki Miyamoto (Japan) |
| <i>President Emeritus</i> | Mr. Hideo Nakamura (Japan) |



The prestigious Yasoshima Prize trophy.

LOCAL NEWS

From Taiwan: Recent Activities of CIT and Local News

The Chinese Institute of Transportation (CIT), cooperation with the Chung Hua University and the National Taipei University of Technology, held its 14th Annual Meeting and Conference on December 18, 1999 in Taipei. The conference had the theme "Taiwan's Transportation in the New Century-Challenges and Responses".

The conference was well attended and stimulated active discussion on issues related to public transportation, earthquake considerations in transportation, and impacts of World Trade Organization (WTO) on the transport sector. There were a total of 15 technical sessions in which 83 papers in different transportation fields were presented. Awards for academic papers were presented during the said conference.

Election of Board members by all registered members was also held. Dr. Cheng-Min Feng was re-elected and will continue to lead the Institute for another two years.

On other news, civil construction for the Taiwan High Speed Rail System, a BOT project, is scheduled to begin in late March 2000.

Passenger Terminal 2 at the CKS International Airport has been completed and is scheduled to open for commercial service in the near future.

EASTS-J Holds Seminar

EASTS-Japan will be sponsoring a seminar on May 11, 2000 from 13:30-16:30 at Tokyo Green Palace. Tentative theme is **Planning and Project Developments After the Economic Crisis in Asia** with Dr. Suyono Dikun (University of Indonesia), Dr. Fwa Tien Fang (National University of Singapore), and Dr. C.O. Tong (The University of Hong Kong) as special lecturers.

Closing Ceremony



*Scenes from
EASTS 1999
in Taipei*



Panel Discussions



EASTS 2001 INVITATION

Welcome Message

Dear Colleagues,

On behalf of the Transportation Studies Society of Vietnam (TSSV) and the Local Organizing Committee, I would like to invite you to the Fourth Conference of Eastern Asian Society for Transportation Studies (EASTS) from October 24 to 26, 2001.

Organized in close cooperation with and sponsored by the EASTS, RITST, and other pertinent institutions, this conference will focus on the development of transport studies which would contribute to the development of the various countries in East Asia. Therefore, we call upon all of you, the experts on the transport field, to participate in this conference. We believe it will be an excellent opportunity for all of us to exchange constructive ideas and valuable experiences for the development of transport system in our region, especially for the developing countries.

We would like to encourage you and your families to come to Hanoi in 2001. We hope that besides attending the technical program, you can also take this opportunity to admire our beautiful Halong Bay, one of the World Heritages and enjoy touring Hanoi.

We look forward to meeting you soon in Hanoi.



Prof. Dr. Nguyen Xuan Dao

Local News is Welcome!

The Office of Secretary-General would appreciate your submission of news related to EASTS domestic society's activities and on-going transportation project/ plan in the country/ area.

