



# EASTS NEWSLETTER

Eastern Asia Society for Transportation Studies

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## MESSAGE FROM THE PRESIDENT OF THE EASTS

(DR. PRIMITIVO C. CAL)

It is with gladness that I extend my warm greetings to all members as we begin another chapter in the life of EASTS. We still reflect with pleasure the tremendous success of the last EASTS Conference in Hanoi. That conference attracted a total of 485 participants (the biggest thus far), with 377 delegates coming from 22 countries outside Vietnam. The conference was also the biggest in terms of the number of technical papers presented. For the first time, an assembly of representative members was held. One of the main agenda items was the election of three Directors-at-large who would serve a four-year term. Let me again welcome to the Board Dr. Hajime Inamura from Japan, Dr. Inwon Lee from Korea and Dr. Lawrence W. Lan from Taiwan. The success of the conference was due mainly to the excellent preparation and conduct of the conference, thanks to the Local Organizing Committee headed by Dr. Nguyen Xuan Dao, the International Scientific Committee chaired by Prof. Kazuaki Miyamoto, the EASTS Secretariat, and the member domestic Societies.

I wish to thank the EASTS Board of Directors for giving me a fresh mandate to lead the Society. Together with the newly elected officers, namely Dr. Nguyen Xuan Dao, 1st Vice President, Dr. Shigeru Morichi, 2nd Vice President, Dr. Tetsuo Yai, Secretary General, Dr. Haruo Ishida, Treasurer,

Dr. Keiichi Sato, Chair of the International Scientific Committee, and other chairs of Standing Committees, we will try to live up to the expectations of the Board and the general membership.

The challenges facing the Society are formidable. Countries in Eastern Asia continue to lag in the development of their transportation systems. The gap between supply and demand is widening, aggravated by the poor quality of existing infrastructure. The problem is more serious in big cities where the negative externalities of transportation, such as traffic congestion, air pollution and traffic accidents, are significant. Lack of Institutional capability and capacity is often cited as among the causes for the worsening situation. It is in this area that our Society can make a significant contribution through research and development, conduct of special studies, and exchanges of technologies and scientific information. With the active involvement of members, I have no doubt that the EASTS will succeed in expanding the body of knowledge and pool of experts and practitioners in the various areas of transportation science and technology.

See MESSAGE, Page 8

## SUMMARY REPORT OF EASTS '01 FROM THE LOCAL ORGANIZING COMMITTEE (LOC)

BY NGUYEN HUU DUC, VICE CHAIRMAN, LOC OF EASTS 2001

It is a great honor for RITST and TSSV (Transportation Studies Society of Vietnam) to be granted by the Eastern Asia Society for Transportation Studies to organize the first conference of EASTS in the 21st century in Hanoi.

Under the agreement of Vietnam Government and with great support from Ministry of Transport, Ministry of Science, Technology and Environment, the Fourth Conference of Eastern Asia (EASTS' 01) was held successfully at Daewoo Hotel in Hanoi from 24th to 27th, 2001 with the participation of 485 international and Vietnamese scientists and technical experts as well as young researchers working in different fields of the transportation sector. Of 485 delegates, 377 were from Australia, Cambodia, China, France, Germany, Hong Kong, India, Indonesia, Japan, Korea, Laos, Malaysia, Pakistan, Philippines, Singapore, Taiwan, Thailand, New Zealand, Sweden, the Netherlands, UK, and USA and 108 from Vietnam. The Local Organizing Committee are very pleased that although the world situation has become more complicated after the event that occurred in the USA on September 11th, almost every registered person were present in Vietnam to participate in the conference.

With the theme "Transportation for Equity, Economy, Mobility and Sustainability", the EASTS' 01 provided all participants a great opportunity to exchange and to share experience in all aspects of transportation studies. Because of the great number of presented papers, one more technical session was added to the program. So, for the first time in EASTS' conferences, the number of parallel technical sessions reached 7. The overall technical program had 63 technical sessions (inclusive of 2 special sessions for Vietnam and 1 special session for Cambodia) and two panel discussion sessions.

One of the results of the conference was the issue of the Journal and Proceedings. The EASTS' 01 Journal and Proceedings consists of 9 volumes of 4,242 pages (Journal: 6 volumes, Proceedings: 3 volumes). Journal included 165 papers selected by the International Scientific Committee as well as one invited paper. The other 130 papers were published in the Proceedings.

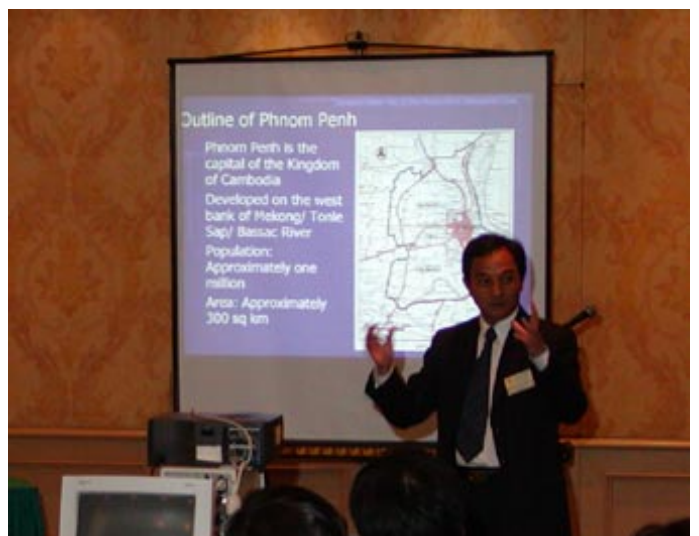
In addition to the technical program, participants had an opportunity to visit one of the World recognized heritages - the Ha Long Bay. A total of 110 persons took part in this Technical Tour.



**Opening Ceremony of EASTS 2001**



**Technical Session**



**Special Session for Cambodia**

## INTERNATIONAL SCIENTIFIC COMMITTEE (ISC) REPORT OF EASTS '01

BY KAZUAKI MIYAMOTO, CHAIRPERSON, ISC, EASTS

First of all, on behalf of the International Scientific Committee (ISC), EASTS '01 Hanoi, it is my great honor and pleasure to report to you that EASTS '01 has contributed much to the mission of EASTS to understand complex issues and to answer the questions being raised in the region about transportation related problems, in a systematic, scientific and scholarly manner. There were 245 paper presentations in 60 technical sessions besides an invited lecture by Prof. Primitivo C. CAL, President of EASTS, two special sessions organized by Local Organizing Committee and Secretary General's Office, and two panel discussions.

The Journal of the Eastern Asia Society for Transportation Studies, which includes 165 selected papers plus one invited paper, was published and distributed on site. The Journal includes 165 papers that the ISC has selected from 325 full papers submitted for review with the help of outside referees. Since the number of submitted abstracts was as many as 513, we have conducted a two-stage selection. The selection ratio at the first stage with abstracts was 0.618(X). The rate of selection at the second stage with full papers was 0.655(Y). Consequently, the overall selection rate is 40.5% ( $Z=X*Y*100$ ). The selection was conducted for all the papers with strict impartiality as described in the Journal. The Journal of EASTS is still young and growing, as this is only the fourth issue. I believe, however, the acceptance ratios of 66.5% (Vol. 3) and 40.5% (Vol. 4) with the established review system gives an indication of the level of papers in this Journal in comparison with other journals in the field. I am proud of the efforts that the ISC has been making to improve the academic level of EASTS since the first conference in Manila followed by conferences in Seoul and Taipei, up to this time, the fourth conference in Hanoi.

Let me add that non-reviewed papers, which were also presented at the conference, are included in the Proceedings of the 4th 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 Yasoshima Prize for the best paper:

Andre Dantas, Yaeko Yamashita, Marcus Vinicius Lamar and Koshi Yamamoto, "Modelling And Forecasting Travel Demand in an Urban Area: A Neural-Geo-Temporal Approach".

### Outstanding Paper Awards:

Chih-Peng Chu and Shou-Ren Hu, "A Framework On The Estimation Of The Economic Effects Of Intelligent Transportation Systems".

S.C. Wong, C. Yang, C.O. Tong and C.K. Wong, "Group-Based Optimization Of Signal Timings For Traffic Equilibrium Network".

Junyi Zhang, Yoriyasu Sugie and Akimasa Fujiwara, "A Mode Choice Model Separating Taste Variation and Stated Preference Reporting Bias".

Poovadol Sirirangsi and Pannapa Herabat, "Pavement Valuation and Performance Measures".

All the information on ISC matters of EASTS '01 Hanoi including how to purchase the publications is available at the following homepage. ISC EASTS '99 Taipei and '01 Hanoi: <http://www.rs.civil.tohoku.ac.jp/~isc-easts/>



Awardee of Yasoshima Prize

## PANEL DISCUSSION AT EASTS '01

"Transport Safety" and "Reducing Air Pollution in Metropolitan Areas" were the panel discussion topics held during the EASTS '01 conference.

Mr. Nguyen Xuan Dao (Director Gen., Research Inst. for Transportation Science & Technology, Vietnam) and Mr. Michael A.P. Taylor (Director, Transport Systems Centre, Univ. of South Australia) moderated the 1st and 2nd sessions, respectively. Eight (8) academic and practical experts in specific fields were assembled as panelists. The list of panelists is as follows:

**(1) Transport Safety :** Mr. Pichai PAMARIKABUD (Professor, Dept. of CE, King Mongkut Univ. of Technology, Thailand); Mr. Hussein LIDASAN (Director, Assoc. Prof., National Center for Transportation Studies, Univ. of the Philippines); Mr. Md. Nor NOR GHANI (Jabatan Analisis

Ekonomi, Fakulti Ekonomi, Universiti Kebangsaan Malaysia); and Mr. Tohru TAMURA (Professor, Dept. of CE & Arch., Muroran Inst. of Technology, Japan)

**(2) Reducing air pollution in metropolitan areas :** Mr. Karl VERGEL (Asst. Prof., National Center for Transportation Studies, Univ. of the Philippines); Mr. Huapu LU (Assoc. Prof., V-Dir., Inst. of Transportation Engineering, Tsinghua Univ., China); Mr. Kyung-woo KANG (Professor, Dept. of Transp. Eng'g., Hanyang Univ., Korea); and Mr. Matsuhiro ITO (Director, International Cooperation Division, Ministry of Land, Infrastructure and Transport, Japan)

The panelists, along with the active audience, were able to develop dynamic and fruitful discussion. It is confirmed that more research must be conducted to build an inhabitable human society.

## HIGHLIGHTS OF THE REPRESENTATIVE MEMBERS ASSEMBLY

The society held its Representative Members Assembly last October 23, 2001. Dr. Primitivo C. Cal, President of EASTS, explained the functions of the assembly.

Mr. Shigeru Morichi, the Secretary General of EASTS, reported the activities undertaken by the society in 2001. The increasing number of refereed papers presented is indicative of the success of the society. He mentioned that hard work is finally paying off as demonstrated by the good worldwide reputation achieved by the EASTS.

### Financial Report:

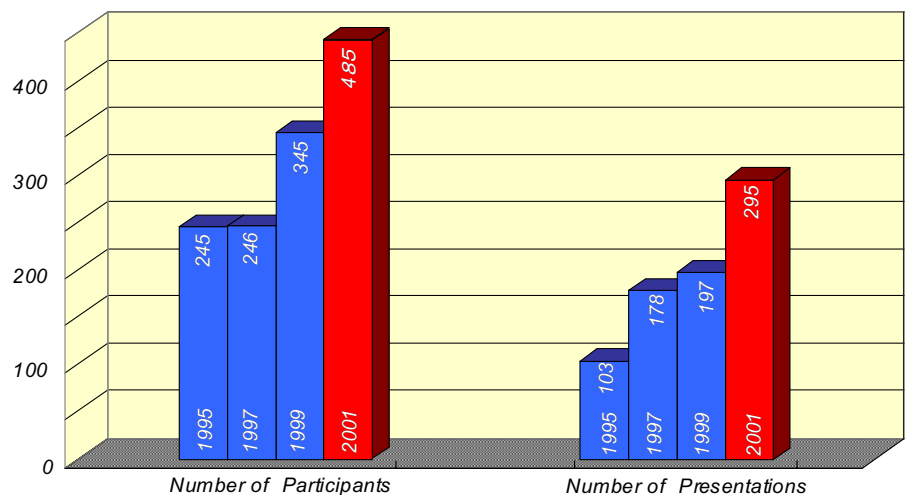
The Secretary-General, on behalf of the treasurer, also reported the financial status of the society for year 2000-2001.

### Election of 3 Directors-at-large:

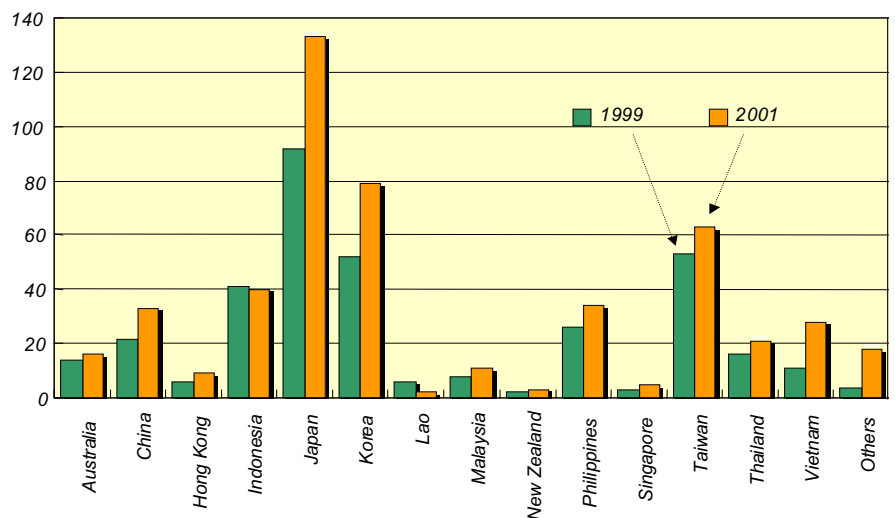
The elected directors-at-large who will serve a four-year term are Mr. Hajime Inamura (Japan), Mr. Lawrence W. Lan (Taiwan) and Mr. Inwon Lee (Korea).

### Activities of Domestic Society:

The representatives from the different domestic member societies of EASTS also presented their annual activities.



Record of EASTS Conference



Number of abstracts submitted

## HIGHLIGHTS OF THE 8TH BOARD MEETING

The 8th board meeting of the EASTS was held on October 24-25, 2001 in Hanoi Vietnam. Both the Local Organizing Committee (LOC) and the International Scientific Committee (ISC) delivered presentations regarding the preparations made to ensure the success of the conference.

### Awardings by the Board:

The head of the three committees, i.e. Best Domestic Society Award (BDSA), Outstanding Transport Project Award (OTPA), Best Transportation Landmark Photo Award (BTLPA), disclosed the recipients and the process of selection.

Mr. Tien Fang Fwa, chairman of BDSA, announced that the Chinese Institute of Transportation of Taiwan was awarded as Best Domestic Society. He explained that the award was based on the criteria set upon by the committee members which are: intellectual activities, professional activities, social activities, members' participation rate and impacts of activities.

Mr. In-won Lee, chairman of OTPA, enumerated the criteria for the selection of Outstanding Transport Project Award, i.e. social and transportation impact, method and technology of construction, financing and management, and uniqueness. Taking into account all the criteria mentioned, the committee decided to honor Incheon International Airport of Korea as best transport project. Aside from meeting the criteria above, the airport project is also known for its success in protecting the environment.



Scene of the Board Meeting

The Best Transportation Landmark Photo Award was postponed as reported by its chairman, Mr. Tetsuo Yai, due to lack of participants.

### The Venue for 5th EASTS conference:

The officials of EASTS announced that the oncoming 5th conference in 2003 will be held in Fukuoka, Japan. The final date had also been decided and will be from October 29 to November 1.

**The 5th EASTS Conference**  
**Date: 29 October - 1 November in 2003**  
**Venue: Fukuoka International Congress Center**  
**Fukuoka City, Japan**

### New Officers:

The EASTS had elected a new set of officers. Mr. Primitivo C. Cal was re-elected as president giving him another mandate to lead the society.

- President:  
Mr. Primitivo C. Cal (Philippines)
- 1st Vice-President:  
Mr. Nguyen Xuan Dao (Vietnam)
- 2nd Vice-President:  
Mr. Shigeru Morichi (Japan)
- Secretary General:  
Mr. Tetsuo Yai (Japan)
- Treasurer:  
Mr. Haruo Ishida (Japan)
- ISC Chairman:  
Mr. Keiichi Sato (Japan)
- President Emeritus:  
Mr. Hideo Nakamura (Japan)
- Membership committee Chairman:  
Mr. Inwon Lee (Korea)
- Outstanding project awarding committee Chairman:  
Mr. Suyono Dikun (Indonesia)
- Best domestic society awarding committee Chairman:  
Mr. Cheng-Min Feng (Taiwan)
- Photo contest awarding committee Chairman:  
Mr. Prapansak Buranaprapa (Thailand)

## INTERNATIONAL COOPERATIVE RESEARCH ACTIVITIES (ICRA)

The Eastern Asia Society for Transportation Studies (EASTS) is offering research grants to a group of researchers involved in transportation and related fields through its International Cooperative Research Activity (ICRA). The purpose of the ICRA is to promote the research activities of the EASTS by encouraging international cooperative research.

In the meeting, Mr. Yai reported the review process of ICRA applicants and results of preliminary evaluation by the EASTS-Japan. As for the results, two research projects were approved and they are as follows:

A comparison Study on motorcycle traffic development in Some Asian Countries - Case of Vietnam, Malaysia and Taiwan, (rep. researcher: Dr. Hsu Tien-Pen, Taiwan National University, Taiwan)

Travel Behavior Analysis and its Implication to Urban Transport Planning for Developing Countries, (rep. researcher: Dr. Takayuki Morikawa, University of Nagoya, Japan)

Grantees are expected to present the results of their collaborative research in a special session of the 5th EASTS conference to be held in 2003.

In the next year 2003, EASTS would invite applicants to ICRA. Information on application will be announced to members with newsletter and EASTS web-site(<http://www.easts.info>).

## REPORT FROM DOMESTIC SOCIETIES

### From Vietnam: Report on TSSV'S Activities

Since the successful hosting of EASTS'01, the Transportation Studies Society of Vietnam (TSSV) has been involved in the following activities:

#### 1. Review of organizing EASTS'01

- Assessing the success of the EASTS conference.
- Assessing the short-comings in terms of organization work.
- Awarding excellent works contributed to EASTS'01.

#### 2. Conducting annual meeting of TSSV in November 2001.

- Report on activities done in 2001 of TSSV and its members.
- Holding a 2-day scientific conference in November, 2001, with the participation of 54 papers presented in Vietnamese.

This seemed to provide a supplementary venue for Vietnamese scientists who had the chance to present their papers in English during EASTS'01. The conference was divided into 7 sections as follows:

- a. Transport ITS section, b. Bridge and Tunnel, c. Highway, d. Port and Waterway constructions, e. Transport mechanic, f. Environment, Transport constructions and means protection, g. Soil, material, foundation and underground constructions

There were about 84 participants actively taking part in the discussions during the conference. Many useful

experiences and lessons were drawn from these interesting discussions.

#### 3. Undertaking new research subjects assigned by State and Ministry of Transport of Vietnam and starting new supervision and quality control of construction projects.

- Development of Urban Transport System in Hanoi for period 2001-2005
- Application of Advancing Scaffolding System in Concrete Bridge Construction Projects
- Solutions to Improving Quality and Safety of Road Transport Means for ensuring Traffic Safety
- Suspension and Quality control of Thanh Tri Bridge Construction Project.

### From Philippines: Report on TSSP'S Activities

To kick-off the year, and as part of its campaign to increase the membership and actively involve members in the society's activities, the Transportation Science Society of the Philippines (TSSP) held a general assembly of members on 11 January 2002 at the Bahay Kalinaw, UP campus. The event was also the occasion for inducting 17 new members and a forum to identify the 10 best and 10 worst things about Philippine Transportation. In his message

to the members, the President (Rene Santiago) narrated the evolution of professional practice in the field of transportation in the Philippines as backdrop to the three main thrusts of the TSSP over the next 2 years: (1) make its researched-backed views heard on hot national issues, (2) enlarge its membership base, and (3) create a network of members via the Internet and SMS.

An example of the first thrust was the symposium on Metro Manila's traffic held at the World Trade Center last 15 November 2001. Organized by the Philippine Constructors Association in collaboration with TSSP, the symposium (which dwelt on "Metro Manila's Traffic: The Undeclared Crisis") highlighted the celebration of the Construction Week and international exhibition of construction materials and equipment. TSSP President Rene Santiago moderated the panel discussions that included Metro Manila Development Authority Chairman Benjamin Abalos, former Public Works and Transportation Secretary David Consunji, and former Marikina City Mayor Bayani Fernando. The latter revealed the story behind Marikina's success in local traffic management, which became the subject of a research paper presented during the 9th TSSP Annual Conference. A joint declaration was later drafted by TSSP, which sought urgent attention to non-expensive solutions that will "restore order and decency on the road system" of Metro Manila. Manila has already grabbed from Bangkok the dishonorable distinction of having the worst daily traffic congestion in the world.

Preparations are also underway for the 10th Annual Conference of TSSP to be held on 28-29 June 2002 on the theme "Investing in Knowledge and people for Better Transport." In keeping with its policy of bringing the conference closer to the regions, the conference returns to Cebu -also the site of the 7th. The 9th Conference was held in Manila last year.

Conference Committee chair is Dr. Hussein Lidasan. At that time, the final poll result on the search for the 10 best and 10 worst things about Philippine transport will also be unveiled. So far, the 3 best features coming out are: (a) success story in local traffic management, (b) increasing and broader use of modern communications technologies with positive impact on travel demand, (c) advent of fast-craft, inter-modal systems, and ITS. On the other hand, leading the worst list are: (a) horrible drivers exacerbated by wimpy traffic enforcement and undisciplined pedestrians, (b)

misuse of transport spaces by vendors, squatters, and the like, (c) applied ignorance in traffic and transport.

### **From Hong Kong: Report on HKSTS'S Activities**

The sixth conference of Hong Kong Society for Transportation Studies (HKSTS) was held on 1 December 2001, workshop on Intelligent Transport Systems was held on 3 December 2001 and Advanced workshop on GIS for Intelligent Transportation System in Hong Kong was held on 20 September 2001.

HKSTS organized International Symposium and Conference in 2001 as follows:

1. International Symposium on Road Safety, University of Hong Kong, Hong Kong, 9 March 2002.
2. The Seventh Conference of HKSTS, Sheraton Hotel, Hong Kong, 14 December 2002 (see HKSTS web site: <http://home.netvigator.com/~hksts> for details)

HKSTS organized 8 Seminars in 2001 as follows:

1. "ITS Research Activities for the Baltimore/Washington Corridor" by Dr. Gang-Len Chang, University of Maryland, USA.
2. "Towards Hybrid Online Dynamic Traffic Assignment Procedures for Network Traffic Management" by Dr. Hani S. Mahmassani, The University of Texas at Austin, USA.
3. "Research in Freight Transport in Singapore", by Dr. James Luk, Nanyang Technological University, Singapore.
4. "Merging reality and virtuality - traffic simulation and on-road observations combined for emissions and congestion studies", by Dr. Michael A.P. Taylor, University of South Australia, Australia
5. "Validation of urban travel forecasting models combining origin-destination, mode and route choices", by Dr. David Boyce, University of Illinois at Chicago, USA.
6. "Congestion pricing on a large urban road network", by Dr. David Boyce, University of Illinois at Chicago, USA .
7. "Convergence of traffic assignments: How much is enough? Delaware Valley case study", by Dr. David Boyce, University of Illinois at Chicago, USA.
8. "Comparisons of user-optimal and system-optimal solutions to the traffic assignment problem", by Dr. David Boyce, University of Illinois at Chicago, USA.

**MESSAGE: Message from the President**

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The Japan Local Organizing Committee and the International Scientific Committee are now making preparations for the holding of the 5th EASTS Conference in Fukuoka City, Japan in October 2003. I had the opportunity to meet and discuss preparation for the Conference with EASTS-Japan President Shigeru Morichi and ISC Chair Keiichi Sato during my visit to Japan in January/February this year. I am glad to report that excellent progress has been made. I do hope that you are also making your own preparation to present a paper in the conference.

The present administration will continue to pursue standing projects designed to strengthen the society and inter-domestic society cooperation. These include selection of recipients for the Best Domestic Society Award, Outstanding Transportation Project Award, and Best Transportation Landmark Photo Award. The formal establishment of domestic societies in economies within Eastern Asia will continue to be a priority. Members are likewise encouraged to submit proposals for international cooperative researches.

More power to one and all.  
PRIMITIVO C. CAL  
President, EASTS

**ANNOUNCEMENT FROM THE OFFICE OF THE SECRETARY-GENERAL**

***Calling for Local News!***

The office of secretary general would like to invite the domestic members of the society to submit local news related to transportation development. Submitted news article will automatically be carried by the new EASTS website ([www.easts.info](http://www.easts.info)). Please contact Mr. Tetsuro Hyodo, in charge of website development, at [hyodo@ipc.tosho-u.ac.jp](mailto:hyodo@ipc.tosho-u.ac.jp), fax: +81-3-5620-6492.

***Visit the New EASTS Web-site!***

The website of EASTS was revised and transferred to a new domain name. You can see the latest information of the society at **[www.easts.info](http://www.easts.info)**.

