



NEWSLETTER - Korean Transportation Association in America

Vol. 27, No. 1, January 2016

President's Message



Dear KOTAA members,

Welcome to 2016 KOTAA annual meeting! It has been always exciting

to meet KOTAA members and even more exciting to meet new members at KOTAA annual meetings. In 1990, KOTAA started from gathering of few members at TRB and grows to a large organization representing Korean and Korean-American transportation professionals and students in US. In 2002, the former KOTAA president Dr. Hosin David Lee established KOTAA Travel Grant for students presenting papers at TRB. The number of recipients of the travel grant was 7 in 2002. I am very pleased to announce that the number of recipients for 2016 is 29 and the total accumulated number of travel grants since 2002 is over 300 now, distributing over \$45,000 to help or to encourage them to attend KOTAA and TRB meetings. This accomplishment was only possible because of the dedicated members and the previous KOTAA leadership together with the supports from many Korean and Korean-American Institutions. During 2002-2015, the individual members have raised over \$12,000 for travel grants and the following institutions have helped KOTAA with over \$70,000 for establishment of the travel grant fund and other activities.

- Korean Society of Road Engineers (KSRE, formerly KSPE, 한국도로학회)
- Korean-American Scientists and Engineer Association (KSEA, 재미한인과학기술자협회)
- Korea Transport Institute (KOTI, 교통개발연구원)
- Korean Society of Transportation (KST, 대한교통학회)
- Korean Institute of Science and Technology Information (KISTI, 한국과학기술정보연구원)
- Korea Institute of Construction Technology (KICT, 한국건설기술연구원)
- Korea Expressway Corporation (KEC, formerly KHC, 한국도로공사)
- Global Network for Korean Scientists and Engineers (KOSEN, 한민족과학기술자네트워크)

This year, the KOTAA technical meeting and the annual meeting will be held together on Sunday evening. It is to minimize time conflicts of KOTAA members with other TRB activities and to promote interaction between student and professional groups. I hope everyone attending KOTAA meeting to be able to share good time and to help each other for further career development.

Again, thank you for your support of KOTAA and welcome new members to KOTAA. I wish you all to have a successful TRB and great year 2016.

Sang Soo Kim, Ph.D.

President of KOTAA

Associate Professor

Department of Civil Engineering

Ohio University

Dear Fellow KOTAA Members,

I wish you a very prosperous and healthy 2016!

It is my great pleasure to welcome you to the annual meeting of the Korean Transportation Association in America (KOTAA). KOTAA is one of the strongest Affiliated Professional Societies (APS) in the Korean-American Scientists and Engineers Association (KSEA), of which I am currently serving as President.

Please allow me to briefly introduce KSEA. KSEA was established in 1971 as a non-profit professional organization and has grown to over 6,000 voting members with 76 local chapters and branches, 13 technical groups, and 29 APS across the United States. Last August, many of you attended KSEA's flagship annual conference, the US-Korea Conference (UKC), held in Atlanta, Georgia. Over 1,000 professionals from the United States and Korea attended the Conference, which was sponsored by over 60 organizations. The theme of UKC 2015 was Pursuing Excellence with a Servant's Heart, and the follow-up survey results clearly indicate that UKC 2015 was a great success.

Recently, KSEA held another important and successful event. KSEA's Scientists and Engineers Early-Career Development (SEED) workshop was held in Washington, DC in December 2015. The goal of our SEED workshops is to provide a professional career development service to KSEA's younger generation of members, from senior Ph.D. students to postdoctoral researchers to early career professionals. Again, according to the post-workshop survey, the program had a significant, positive impact on young generation members' career plans and vision. Based on the success of the December SEED workshop, we plan to hold another SEED workshop in May 2016 in Silicon Valley, California. I hope that many KOTAA members can take advantage of this excellent opportunity.

I am so pleased to hear that KOTAA is giving student travel awards to 29 students this year. These travel grants were established by some of the KOTAA's early leaders who have given their time and financial resources graciously to establish these student travel awards. As the President of KSEA, I

am also pleased to see that KSEA can make meaningful contributions toward these travel grants and to the KOTAA's annual meeting. I congratulate these 28 recipients and hope that all of you enjoy the fellowship and networking opportunities at this annual meeting.

Number of KSEA members in KOTAA is the primary factor for determining the financial support from KSEA. So I strongly encourage you to sign up for the KSEA membership today. It is one of the most effective ways to help your beloved organization, KOTAA.

Finally, I would like to congratulate the KOTAA President, Professor Sang-Soo Kim, other KOTAA committee members, and all the volunteers for making this annual meeting another successful event!

Youngsoo Richard Kim, Ph.D., P.E., F. ASCE
President, KSEA

Jimmy D. Clark Distinguished University Professor
Alumni Association Distinguished Graduate
Professor
North Carolina State University

2016 KOTAA Technical Session

Date/Time : January 10, 2016 5:30PM - 7:00 PM

Location : Convention Center, 101

2016 KOTAA Annual Meeting

Date/Time : January 10, 2016 7:00PM - 8:30 PM

Location : Convention Center, 101

2016 KOTAA Annual Banquet

Date/Time : January 10, 2016 8:00PM - 9:45 PM

Location : Haad Thai Restaurant,
1100 New York Avenue, Washington, DC 20005

2015 KOTAA TRB Participant Status

A total of 61 KOTAA members attended at the 26rd KOTAA Annual Meeting in January, 2015.

Status	U.S. and others	Korea	Total
Professional	20	12	32
Student	28	1	29
Total	48	13	61
Status	U.S.	Korea	Total
Professional	33%	20%	52%
Student	46%	2%	48%
Total	82%	23%	100%

2015 KOTAA Meeting Summary

Membership dues:

Professional (\$35/year), Student (\$15/year)

2015 KOTAA Membership Fee Report

	\$ 15	\$ 35	Total
Professional	0	32	32
Student	29	0	29
Total amount	\$ 435	\$ 1,120	\$ 1,555

* 1 people attended meeting without fee.

2015 Travel Grant Expense Summary

Award	Number	Total
Travel Grant	27	\$ 4,050.00

KOTAA Financial Status

1. General Financial Status

Fiscal Year of 2015

Revenue	\$10,742.39
Balance from FY2014	\$9,187.39
Year 2015 Membership	\$1,555.00
Expense	\$323.64
Newsletter	\$84.19
Web Managing	\$239.45
Balance as of 12/31/15	\$10,418.75

2. Travel Grant Financial Status

Fiscal Year of 2015

Revenue	\$37,978.73
Balance from FY2014	\$33,687.12
Revenue from CD & Mutual Fund	-\$ 658.39
Donations from Members	\$ 650.00
Donations from Institutions	\$ 2,000.00
KSEA	\$ 2,300.00
Expense	\$7,469.45
Meeting/Conference	\$ 2,160.00
Website/Account Maintenance	\$ 239.45
Membership fees for KSEA	\$ 1,020.00
Awards (27 people)	\$ 4,050.00
Balance as of 12/31/15	\$30,509.28

3. KOTAA Finance Investment

To enhance KOTAA's financial status, KOTAA continued to invest in CDs and Mutual Fund through 2015, based on the decision made by staffs.

Following tables summarize the status of the investment in mutual fund in 2015.

3.1 Earning from the Investment

(1)	Dividend from the Mutual Fund	\$ 864.96
(2)	Credit interest	\$ 3.05
(3)	Earning from the Mutual Fund	-\$ 1,526.40
Total		-\$ 658.39

(1) Dividend from the mutual fund (see Table 3.1.1)

(2) Annual credit interest (which obtained from the rest of money outside the investment)

(3) Earning from the mutual fund (Table 3.1.2)

3.1.1 Monthly Dividend from the Mutual Fund

Year_Month	Monthly Dividend
2015_01	\$72.08
2015_02	\$72.08
2015_03	\$72.08
2015_04	\$72.08
2015_05	\$72.08
2015_06	\$72.08
2015_07	\$72.08
2015_08	\$72.08
2015_09	\$72.08
2015_10	\$72.08
2015_11	\$72.08
2015_12	\$72.08
Total	\$864.96

3.1.2 Earning from the Mutual Fund Investment

Year_Month_Date	Mutual Fund Price
2014_12_31	\$ 9,423.40 (= \$ 8.89 × 1,060)
2015_12_31	\$ 7,897.00 (= \$ 7.45 × 1,060)
Total Earning	-\$ 1,526.40 (= \$ 7,897.00 - \$ 9,423.40)

Note: As of 12/31/15, we have 1,060 shares of a mutual fund stock with a unit price of \$7.45.

Donations to KOTAA in 2015

Donations from Institutes

Donation Level	Institute	Donation
Diamond	KSEA ¹	\$ 2,300.00
	KST ²	\$ 2,000.00
Total		\$ 4,300.00

1. Korean-American Scientists and Engineer Association

2. Korea Society of Transportation

Donations from Members

Donation Level	Name		Donation
	Last	First	
Platinum	Park	Byungkyu Brian	\$ 165
	Kim	Sang-Soo	\$ 165
Gold	Park	Seri	\$ 100
Others	-		\$ 220
Total			\$ 650

Note: Only Members with donations more than \$100 are presented on the table.

KOTAA Travel Grant

Beginning from year 2002, KOTAA has awarded Travel Grant to Korean graduate students attending the TRB meeting from all over the world. Through this grant, KOTAA wishes to encourage Korean students for their study as well as to enhance

technical understanding and relationships for their future career development. The students shown in the following are the year 2016 KOTAA Travel Grant recipients. Prizes of \$150 are presented in the 2016 KOTAA Annual Meeting.

2016 KOTAA Travel Grant Recipients

Excellent Researcher Award

1. **Kate Hyun**, University of California, Irvine, Long Distance Truck Tracking from Advanced Point Detectors using Selective Weighted Bayesian Model

2. **Hyoshin Park**, University of Maryland, (1) Online Emergency Vehicle Dispatching with Look-Ahead on a Transportation Network; (2) Stochastic Emergency Response Unit Allocation Considering Secondary Incident Occurrences; (3) Stochastic Capacity Adjustment Considering Secondary Incidents; (4) Use of Clustering Model and Adjusted Boxplot Model for Identification of Secondary Incidents

3. **Yong Hoon Kim**, Purdue University, Macroscopic Modeling of Spatiotemporal Information Flow Propagation Wave under Vehicle-to-Vehicle Communications

4. **Jennifer Lee**, Ajou University, Exploring the Impacts of Transport Infrastructure on Manufacturing Location by Sector

5. **Kihyun Pyo**, North Carolina State University, Freeway Capacity: Theoretical Construct and Field Estimation Method

6. **Sinhye Joo**, Hanyang University, 1) An Integrated Simulation Approach for Evaluating Traffic Calming Measures: An Example of Roundabouts; (2) Evaluating the Effects of Supplemental Rest Areas on Freeway Crashes, a Korean Study

7. **Haena Kim**, University of Iowa, Design And Field Fabrication Of Pi-Girder Using New Ultra High Performance Concrete For Accelerated Bridge Construction

8. **Hajin Choi**, The University of Illinois at Urbana-Champaign, Comparison of Ultrasonic Imaging Techniques for Full-Scale Reinforced Concrete

9.**Piljin Chun**, University of Virginia, Feasibility of Using Segment Speed Deceleration Events as Safety Surrogate Measures at a Series of Freeway

10.**Bumjoon Bae**, University of Tennessee, Knoxville, A Modifiable Temporal Unit Problem in Crash-frequency Modeling

11.**Daisik Nam**, University of California, Irvine, Grid Cell Based Taxi Ridership Analysis Using Large Scale GPS Data

12.**Sungmin Hong**, Hokkaido University, A Method for Estimating Urban Travel Speed in Winter using Panel Data Models

13.**Tai Jin Song**, North Carolina State University, Exploring Vehicle-Pedestrian Crash Severity Factors Based on In-Car Black Box Recording Data

14.**Seung Gu Kang**, University of Illinois at Urbana-Champaign, Environmental and Economic Impact of Using New Generation Wide-Base Tires

15.**Hyeonsup Lim**, University of Tennessee, Knoxville, The Impact of Narrow Lane on Safety of the Arterial Roads

16.**Seong Hwan Cho**, North Carolina State University, Verification of Time-Temperature Superposition Principle for Shear Bond Failure of Interlayers in Asphalt Pavements

17.**Hyun Woong Cho**, Georgia Institute of Technology, Microsimulation-Based Real-Time Congestion Pricing Strategy for Managed Lane

18.**Sunghoon Jang**, Eindhoven University of Technology, (1) Measurement Error in Random Regret Models: Formal and Empirical Comparison with Random Utility Model; (2) Accounting for Perception in Random Regret Choice Models: Weberian and Generalized Weberian Specifications

19.**Seongah Hong**, University of Virginia, Development and Evaluation of Environmentally Sustainable Signal Warrant for Planning Application

20.**Taehun Lee**, The Seoul Institute, Multilevel Frequency Model for Ramp Crashes That Reflects Heterogeneity Among Ramp Types

21.**Kyungwon Kang**, Virginia Tech Transportation Institute, MMITSS Simulation Model Development and Assessment

22.**Yoon Young Choi**, Seoul National University, Effects of License Suspension and Revocation on Compliance Duration and Recidivism Rate of Driving Under the Influence

23.**Myeonghyeon Kim**, Seoul National University, Hierarchical Ordered Model for Injury Severity of Pedestrian Crashes

24.**Tae J. Kwon**, University of Waterloo, Canada, Spatiotemporal variability of road weather conditions and optimal RWIS density - Case Studies

25.**Jinwoo Lee**, New York University Abu Dhabi (UAE), A Joint Bottom-Up Solution Methodology for System-Level Pavement Rehabilitation and Reconstruction

26.**Kyungsoo Jeong**, University of California, Irvine, California Vehicle Inventory and Use Survey: Pilot Study Insights

27.**Seungyeong Lee**, The University of Hong Kong, Stage-based Max Pressure Adaptive Traffic Control Policy at Isolated Signalized Junctions

28.**Changju Lee**, University of Virginia, KOTAA Webmaster

29.**Youngeun Bae**, University of California, Irvine, KOTAA Secretary

Each grant recipient is asked to collect potential KOTAA member information and news in his/her areas and provide them to the KOTAA secretary.

Member News

Activities

- Dr. Hoshin Lee became the President of KSCEE effective on January 1 and I would like to introduce KSCEE to members of KOTAA. KSCEE has a vision of becoming an umbrella organization encompassing KOTAA and CM and other specialty organizations.

Join in KSEA

KSEA (Korean-American Scientists and Engineers Association) was established in 1971 to help Korean-American Scientists and Engineers develop their full career potential. KOTAA, as an affiliation of KSEA, encourages its members to join in KSEA. Please refer to www.ksea.org.

Let's Use KOTAA Website!!!

Please visit the KOTAA website (www.kotaa.org). Any ideas to improve the website or postings of useful information are very welcome any time. If you are interested in managing any part of the web contents, please feel free to contact the secretary (hspark@umd.edu) or webmaster (cl8ax@virginia.edu).

[Linkedin.com](http://www.linkedin.com) is an on-line professional network. In addition to KOTAA website, [Linkedin.com](http://www.linkedin.com) will play a role to connect us and share information. Please visit the website and add you and invite people to connect.

Current Officers

President

Sang-Soo Kim (Ohio University)

Vice-Presidents

Seri Park (Villanova University)

Auditor

Hyungjun Park (University of Virginia)

BooHyun Nam (University of Central Florida)

General Secretary

HyoShin Park (University of Maryland)

Kyung Hyun (University of California, Irvine)

Youngeun Bae (University of California, Irvine)

Webmaster

Changju Lee (University of Virginia)

KOTAA Newsletter, Vol. 27, No. 1, January 2016

Send any comments or suggestions to general secretary, **Youngeun Bae**, at secretary@kotaa.org regarding any issues for operating KOTAA.

NOTE