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**Our Mission:**

The Infrastructure Systems Committee e-Newsletter aims to highlight and recognize the research and activities of the members and friends of the committee.

The e-Newsletter also serves as a forum for any announcements for upcoming conferences, job opportunities, and educational opportunities.

Also, the e-Newsletter serves as a tool to connect committee members, friends, and related professional communities.

**NOTE:**

We would like to build a "Member Profile" section to highlight our members. Please nominate someone who truly deserve such a recognition by sending us a brief bio highlighting his/her education, research area, current occupation, job responsibilities, etc.

**Committee Highlight**

Based on the guidance from the T&DI Board of Governors, the Infrastructure Systems Committee (ISC) has completed its new membership and reorganization. The new membership roster consists of 26 voting members (of which, six are younger members) and 10 associate members. The committee has also been reorganized to enhance productivity and, at the same time, to give every committee member the opportunity to actively participate in committee activities. As part of this effort, eight sub-committees have been established, where each sub-committee is expected to be focused on a specific area of the committee work. The sub-committees and chairs are as follows:

**ASCE-wide Asset Management Committee**

Chair: Sue McNeil

**International Activities**

Chair: Susan Tighe

**Conferences and Paper Reviews**

Chair: Hosin "David" Lee

**Government Relations**

Chair: Raymond Zee

**Webinar Development**

Chair: Lu Gao

**Committee Newsletters**

Chair: Mehmet Ozbek

**Younger Member Initiatives**

Chair: Diniece Peters

Each committee member is affiliated with a sub-committee and working on specific committee activities. The ISC greatly appreciate the leadership by the sub-committee chairs and contributions from committee members.

If you are interested in joining the ISC, please do not hesitate to contact us.

**Member Profile**



**Sue McNeil, Ph.D., P.E.**

The Member Profile for the inaugural issue of the ISC e-Newsletter features Prof. Sue McNeil, a founding member of ISC and recipient of the 2011 Harland Bartholomew Award. Prof. McNeil is currently Professor at the Department of Civil and Environmental Engineering, University of Delaware.

Prof. McNeil's research interests are in the fields of transportation infrastructure management with emphasis on the application of advanced technologies, economic analysis, analytical methods, and computer applications. Currently, she teaches Urban Affairs and Public Policy and serves as the director of the University Transportation Center and the Disaster Research Center at the University of Delaware.

In addition to her membership with ISC, Prof. McNeil has been a member of the TRB Executive Committee and chaired the TRB Committee on Asset Management. She is a founding associate Editor and currently Editor-in-Chief of the *ASCE Journal of Infrastructure Systems*, and serves on various technical committees of the American Society of Civil Engineering. In 2011 Prof. McNeil was presented with the Harland Bartholomew Award where she was acknowledge as "a pioneer in the field of infrastructure systems asset management."

Aside from her own professional achievements, Prof. McNeil is well-known for her history of nurturing young transportation professionals who are new to the industry through both her professional activities and her academic positions. Those who have come up under her mentorship are now themselves following in Prof. McNeil's footsteps of taking leadership and making contributions to the practice, research, and teaching of transportation engineering.

Chair of ISC: Zhanmin Zhang, Ph. D.  
The University of Texas at Austin  
z.zhang@mail.utexas.edu

Newsletter Chair: Mehmet E. Ozbek, Ph. D.  
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## Research Highlight

*Development of Performance Models and Maintenance Standards for Urban Infrastructure*

*Systems: A Chilean Case Study*



By Alelí Osorio

University of Waterloo, Canada



Urban pavement behavior is not always fully understood in the state-of-the-art practice. However, it is essential for good management of roads within cities. The research in this study addresses the problem of managing urban pavement networks. Differences in urban pavement performance compared to interurban networks can be quite dramatic depending on several factors such as: pavement structure, traffic demands, and network characteristics.

The study is part of a three year project developed in Chile by the Pontificia Universidad Católica de Chile (PUC) in collaboration with Centre for Pavement and Transportation Technology (CPATT) of the University of Waterloo, Canada. The novelty of this project is that it involves multidisciplinary perspectives from the engineering, legal, and public policy standpoints. In addition, it considers a sustainable approach with key aspects integrated in the life cycle assessment of urban pavements.



Currently, the research is in the application and adjustment phase of an Urban Pavement Condition Indicator (UPCI) developed within the context of the overall project. The UPCI is representative of the overall condition of pavements based on objective measures of surface distresses, including manual and automated data collection.

A paper discussing the methodology for the calibration and validation of the UPCI will be presented at the TRB Annual Meeting 2014, Session 459.

## Awards & Recognition

**ASCE's Associate Editor Award:** Professor Matthew Karlaftis from the Department of Civil of Engineering of the National Technical University of Athens recently received ASCE's Associate Editor Award. The award recognizes consistent and exemplary service. Professor Karlaftis serves as an Associate Editor for the *Journal of Infrastructure Systems* and European Area Editor for the *Journal of Transportation Engineering*. For both journals he manages a wide variety of papers, identifies responsible and thorough reviewers, synthesizes review comments, and frequently completes thorough reviews himself. Furthermore, he regularly publishes high quality papers in both journals, including an ASCE prize winning review paper in 2011. Congratulations Matt!

## Conferences and Meetings

- 2<sup>nd</sup> T&DI Congress, June 8-11, 2014, Orlando, FL, USA; website: <http://content.asce.org/conferences/tdicongress2014>
- 9<sup>th</sup> International Conference on Managing Pavement Assets, June 18-21, 2015, Washington DC Metropolitan Area, USA; website: <http://www.icmpa9.org>
- 2<sup>nd</sup> International Conference on Public-Private Partnership, June 26-29, 2015, Austin, TX, USA; website: <http://www.icppp2015.org>
- 3<sup>rd</sup> Advanced Infrastructure Management Bootcamp, June 16-27, 2014, Blacksburg, VA, USA ; website: <https://sites.google.com/site/aisim10vt/home>

*The ISC e-Newsletter is looking to expand! Please contact us if you have anything you would like to share in an upcoming issue. Subjects may include, but are not limited to, the following:*

- *Interesting research projects you have been undertaking (recently completed or ongoing);*
- *Recent achievements (recognition, awards, etc.);*
- *A brief bio highlighting education, research area, current occupation, job responsibilities, etc., that we could use in a "Member Profile" section of the newsletter; and*
- *Announcements on upcoming conferences, job opportunities, etc.*

