

METRANS

Transportation Center

USC CSULB

METRANS on the Move: Our Weekly Newsletter for Students



Welcome to this week's issue of METRANS on the Move! This newsletter is a team effort to foster knowledge and opportunities related to transportation. If you have suggestions for content – events, scholarships, jobs, and more – that you'd like to see included, just reach out to our Editor-in-Chief Lauren Mullarkey-Williams at mullarke@usc.edu or any of our student staff listed at the end of the newsletter. Enjoy this week's issue, and click the button below to subscribe!

[Subscribe Now!](#)

In the News

The articles in this newsletter are prepared or accomplished by others in their personal capacity. The opinions expressed are the author's own and do not necessarily reflect the views of METRANS or its partners.



Pima Community College Center for Transportation Training Program Manager Recognized by Women in Trucking

Missy Blair, Program Manager for Pima Community College's Center for Transportation Training, has been named as one of the Top Women to Watch in Transportation by Women in Trucking (WIT), a national organization. The organization identified 53 women who stand out as top performers in the transportation industry. Missy was nominated and selected because of her multi-disciplinary efforts within the College and collaboration with business and industry to upscale drivers with the advent of autonomous vehicles.

[Read more here.](#)



Beyond Speculation 2.0: Automated Vehicles and Public Policy

Technology continues to alter how people and goods move. One innovation that has the greatest potential to upend traditional travel is the automation of driving. Automated vehicles (AVs) could completely transform mobility networks, dramatically improve safety, reduce emissions, and provide access and mobility to underserved parts of society.

[Read more here.](#)



7 Charts That Show How Good Mass Transit Can Make a City More Affordable

Housing costs are often the first to come to mind when we think about whether or not a city is affordable. If the rent is too damn high, the city is too damn expensive. That's largely true, but transportation costs also have a lot to do with it. HUD actually combines the two numbers into a single "location affordability" index: if those two expenses make up more than 45 percent of your income, the city isn't affordable to you.

[Read more here.](#)

Researchers Use Artificial Intelligence to Design



Flood Evacuation Plans

Drs. Suzanna Long and Steve Corns of Missouri S&T's engineering management and systems engineering department are using a form of AI known as deep learning to develop forecasting tools to integrate water level rate of change as part of evacuation routing planning in flood-prone areas.

Read more [here](#).

Get Involved

**METRANS 2019 Speaker Series:
Ghost Cars and Fake Obstacles: Automated Security Analysis of Emerging Smart Transportation Systems
Wednesday, April 10, 2019 2 pm - 3 pm Pacific
USC**

Transportation systems today will soon be transformed profoundly due to two recent technology advances: Connected Vehicle (CV) and Autonomous Vehicle (AV). Such transformation leads to the creation of a series of next-generation transportation systems which can substantially improve the quality of our everyday lives.

However, this also brings new features and operation modes into the transportation ecosystem, e.g., network connectivity and machine learning based sensing, which may introduce new security problems and challenges. In this talk, Qi Alfred Chen will describe my current research that initiates the first effort towards systematically understanding the robustness of the software-based control in CV and AV systems.

Distinguished Speaker:

Qi Alfred Chen, Assistant Professor in the Department of Computer Science at UC Irvine

To RSVP, email [Adylbek Abdykali](mailto:Adylbek.Abdykali@usc.edu) at abdykali@usc.edu.

More Info

**METRANS 2019 Speaker Series:
Lunch with a Leader - Emerald Archer
Thursday, April 11, 2019 12 pm Pacific
USC - RGL 308**

Join us to hear personal testimonies and witness a compelling voice for education and action. Emerald Archer, PhD, was named Director of the Center for the Advancement of Women in early 2017. As Director, Dr. Archer is dedicated to gathering data across the University's departments, as well as through her own original research. In this role, Dr. Archer is a strong advocate for solutions to persistent gender inequities.

Distinguished Speaker:

Emerald Archer, PhD, Director of the Center for the Advancement of Women

To RSVP, email [Anne Johnson](mailto:annemjoh@usc.edu) at annemjoh@usc.edu.

More Info

**WTS-OC Mentoring Program
Call for Applications Deadline: April 12, 2019**

Are you new to the transportation industry and looking for a trusted advisor or a seasoned transportation professional ready to give back? Join the WTS-OC Mentoring Program!

WTS encourages the professional development of its members and promotes industry recognition of women in transportation. For WTS-OC, these goals are realized in part through its Mentoring Program, which matches "up and coming" transportation professionals and/or college students whose studies focus on transportation, with an accomplished industry professional. Throughout the term of the program, the Mentoring Committee provides structure and support to help foster the one-on-one mentoring relationship, but the program also includes group activities and professional development workshops as well.

For questions, please contact Mentoring Committee Chair [Bernadette Duran-Brown](mailto:bduran-brown@nossaman.com) at bduran-brown@nossaman.com.

More Info

**EXP Internship Program: Powered by Prologis
Interviewer Interest Due: Wednesday, April 10, 2019
Event: Tuesday, April 16 2019 8 am - 1 pm Pacific
The Carson Center
801 E. Carson Street
Carson, CA 90745**

Here's your chance to help students prepare for success! We're looking for interviewers to conduct mock interviews with our 11-grade students. This will help the students in the EXP Internship Program to prepare for their employer interviews and get first-hand interactions with professionals.

Sign up for one (or more!) of the following time blocks: 8-10 am, 10am-12pm, 11am-1pm. Professionals are welcome to bring interested colleague(s). Light refreshments will be provided.

To sign up, email Megan Fowler at megan@expfuture.org.

More Info

WTS Orange County April Luncheon Featuring OCTA
Wednesday, April 17 2019 11:30 am - 1:30 pm Pacific
The Promenade & Gardens
1570 Scenic. Ave. Costa Mesa, CA 92626

Under the direction of the Orange County Transportation Authority's (OCTA) 17-member Board of Directors, Darrell Johnson, Chief Executive Officer of OCTA, is responsible for a more than \$1.2 billion annual budget, implementing planning, financing and coordination of Orange County's freeways, street and rail development, as well as managing countywide bus, commuter-rail and paratransit services, and operation of the 91 Express Lanes. He leads an agency of 1,500 employees responsible for delivering projects, programs and services to improve mobility for more than 3 million county residents.

Distinguished Speakers:

Darrell Johnson, OCTA CEO

More Info

METRANS PSR has a limited number of sponsored spots for complimentary attendance to this event. Please email Victoria Deguzman at victoriiv@price.usc.edu to secure your spot.

InterActions LA: Inspiring Quality Transit Neighborhoods
Wednesday, April 18 2019 8 am - 2 pm Pacific
The California Endowment
1000 Alameda St. Los Angeles, CA 90012

This year's "InterActionsLA" from the UCLA Lewis Center for Regional Policy Studies will discuss the opportunities to enhance neighborhoods given the sweeping \$120 billion investment to expand Los Angeles' transportation system. While "transportation transformation" headlines abound, the on-ground picture is different: Change to the necessary complementary elements in the neighborhoods around these is harder to see and come by.

We will explore how today's opportunity can address decades-old inequities among people and places throughout the region. Based on existing research, we know that new transit stations alone will not improve lives. A suite of complementary approaches—station area design, neighborhood connectivity and amenities, and progressive land use policies—are required to move toward a more inclusive Los Angeles region.

More Info

TRB Webinar: Evaluation of Superheavy Load Movement on Flexible Pavements
Tuesday, April 23 2019 11:00 am - 12:30 pm Pacific

This webinar will examine procedures for analyzing the impacts of superheavy load (SHL) movement on flexible pavements developed under a U.S. Federal Highway Administration-sponsored research project*. SHL hauling units are much larger and heavier than standard trucks and may involve gross vehicle weights in excess of a few million pounds, which at times requires specialized trailers and components with nonstandard spacing between the tires and axles.

The presenters will discuss analysis methods -- such as subgrade bearing failure analysis, sloped pavement shoulder failure analysis, buried utility risk analysis, localized shear failure analysis, deflection-based service limit analysis, and cost allocation analysis -- to determine whether a pavement is structurally adequate to sustain SHL movement. They also will describe the SuperPACK tool developed to conduct this analysis.

Distinguished Speakers:

Elie Hajj, University of Nevada, Reno
 Raj Siddharthan, University of Nevada, Reno
 Hadi Nabizadeh, University of Nevada, Reno
 Seyed-Farzan Kazemi, University of Nevada, Reno

For registration questions, contact Reggie Gillum at RGillum@nas.edu.

More Info

City of Tomorrow Symposium
Tuesday, May 23 2019
The Container Yard
Los Angeles, CA

Join the conversation with city leaders, start-ups, disruptors, academia and businesses from around the globe to explore how together we can find solutions to improve mobility, equity, privacy and more to create the City of Tomorrow.

This event is hosted by Ford Motor Company. It will be a day-long convening of practitioners, academics, students, and start-ups who work in the mobility and city planning space, held downtown Los Angeles on May 23rd, and will be offered completely free of charge. The event will consist of engaging dialogue, interactive experiences, networking with leaders in the field, and more. The team hoping to invite academics, practitioners, and students – all who might be interested in the mobility of the future.

If interested in joining the event or knowing more, email Victoria Deguzman at Victoriiv@price.usc.edu.

[More Info](#)

Scholarships & Academic Opportunities

**2018-2019 Airport Cooperative Research Program (ACRP):
University Design Competition for Addressing Airport Needs
Submission Deadline: Monday, April 29, 2019**

The Airport Cooperative Research Program (ACRP), a program of the Transportation Research Board (TRB) of the National Academies of Sciences, Engineering, and Medicine, is sponsoring a national competition for universities that engages students in addressing issues relating to airports and the National Airspace System. The Competition builds upon the former FAA Design Competition for Universities which has now become an ACRP program funded by the FAA. The Competition is managed for the ACRP by the Virginia Space Grant Consortium of Hampton, Va.

This Competition challenges individuals and teams of undergraduate and/or graduate students working with faculty advisors at U.S. colleges and universities to consider innovative approaches related to airport issues. Students can win cash prizes for their winning innovative design solutions. First place winners present their work at a national award ceremony. Full details are provided in the competition guidelines.

This Competition focuses on design solutions in the following broad areas: Airport Operation and Maintenance, Runway Safety/Runway Incursions/ Runway Excursions, Airport Environmental Interactions, and Airport Management and Planning. Some specific challenge areas are defined in the Technical Design Challenges section of the guidelines. Students are not limited to the suggested topical areas listed. They are free to propose design solutions based on other topics that fit the four broad challenge areas.

For questions, email ACRP@odu.edu or click [here](#) for more information.

[More Info](#)

**USC Sol Price Center for Social Innovation:
Southern California Symposium
Symposium: March - May 2019**

The Southern California Symposium, the Price Center for Social Innovation's executive education program, is an exceptional opportunity for learning, collaboration and professional growth over a short time frame. A concentrated and intense experience that will not wreak havoc on your calendar, the Symposium starts the third week of March and is finished by the first week of May. The time in between will prove unforgettable.

Apply before Friday, December 14th to waive the application fee. Additional fee waivers may be available.

For more information, check out the video at the link below or register [here](#).

[More Info](#)

**2019 I-NUF:
8th METRANS International Urban Freight Conference
Abstracts Due: Wednesday, May 1, 2019
October 16-18, 2019
Hotel Maya, Long Beach, CA**

The purpose of I-NUF is to provide a forum for sharing emerging, multi-disciplinary research on all aspect of freight in metropolitan areas. We are soliciting abstracts for conference presentations as well as papers.

We are soliciting abstracts for both conference presentations and papers on the following topics: Local/last mile pickup and delivery, Trade nodes and hubs - ports, airports, distribution hubs, Freight modes - trucking, rail, water, Urban modeling and planning, New technology, Changing consumption, production and spatial organization, and Best practices.

Sustainability is a cross-cutting theme. We welcome papers on environmental impacts or mitigation strategies in all thematic areas. We also welcome proposals for special sessions.

Please submit abstracts [here](#) and send proposals for special sessions to Alix Traver at alix.traver@csulb.edu.

[More Info](#)

**2019 Transportation Research Forum:
60th Diamond Jubilee
May 2-3, 2019
1001 16th St. NW Washington, D.C. 20036**

Join transportation practitioners, regulators and researchers from the DC region and across the nation as they gather in Washington, D.C. May 2 -3, 2019. Attendees will learn the best in current transportation research, applied practices and innovations which are impacting public sector policy initiatives, enhancing existing markets, and creating new market opportunities to meet current demands and future expectations in the transportation arena.

Through a combination of plenary sessions, notable speakers, research presentations and policy discussions, transportation professionals from a cross-section of modes and sectors will come together to share ideas, explore current research and policy issues, and build networks. Field trips before and after the conference program will take you behind the scenes to several DC-based transportation systems and facilities.

[More Info](#)

IBTTA Foundation Scholarship Program

Applications due: May 9, 2019

IIT Bombay, India

The International Bridge, Tunnel, and Turnpike Association (IBTTA) Foundation has established a scholarship program to assist current undergraduate students pursuing a degree in one of the eligible fields listed below.

Applicants to the IBTTA Scholarship Program must be current undergraduate college students who have completed at least two full semesters of undergraduate coursework at the time of application (30 credit equivalent) and who are pursuing a degree in one of the following fields: Engineering, City and Regional Planning, Construction Management, Public Policy, or Public Administration. Applicants must also be planning to enroll in full-time undergraduate study at an accredited four-year college or university for the entire upcoming academic year and have a minimum grade point average of 2.5 on a 4.0 scale (or its equivalent). International students may apply.

To learn more about the eligibility, awards, and how to apply, click [here](#).

More Info

Young Researchers' Conference 2019

Saturday, May 26, 2019

IIT Bombay, India

WCTRS-Y is a one-day conference which will be held on the first day of the World Conference on Transport Research (WCTR), at the Indian Institute of Technology Bombay, India. Dedicated to the next generation of transport academics, professionals and experts, the WCTR-Y presents the work and achievements of PhD students, post-doctoral fellows and young researchers, giving them the opportunity to play a major role in the scientific progress, and to discuss and interchange on new developments and ideas in transportation.

In addition to the presentation of a limited number of selected high-quality conference papers, WCTR-Y will also include special sessions targeted towards the academic and professional development of young researchers during which they will be able to interact with and learn from their peers and seniors.

More Info

UITP Global Public Transportation Summit

June 9-12, 2019

Stockholm, Sweden

With almost 130 years of history behind it, the UITP Global Public Transport Summit proudly remains the world's biggest event dedicated to sustainable mobility. Covering all urban and regional transport modes across the globe, the Summit combines a diverse program of leading Congress sessions and an outstanding Exhibition full of the latest innovations, solutions and products. The theme for the 2019 Global Public Transport Summit is 'The Art of Public Transport'.

This event takes place every two years, with the congress showcasing innovative developments and good practices, whilst the exhibition provides an overview of the latest trends in products related to public transport. The Poster session is the main format used to include in our program areas related to innovation in research, R&I and pilot projects within the public Transport Sector. Also, as a participant you will be considered as speaker and benefit from the discounted rates and access to all events (conditions apply).

For more information, contact Hilia Boris Iglesia at hilia.boris.iglesia@uitp.org.

More Info

A limited number of Student Scholarships for Ph.D. students, and Volunteer Positions for Graduate Students are available. Both positions waive the student registration fee.

56th IMCL Conference on A Healthy City for All

June 17-21, 2019

Sentinel Hotel, Portland, OR

We are delighted to welcome delegates to the 56th International Making Cities Livable Conference to Portland, and thrilled by the conference theme, "A Healthy City for ALL." This is an effort close to the heart of all Portlanders as we introduce strategies to make our neighborhoods healthier places to live, as we expand our programming to continue to produce housing units and to compassionately address homelessness.

This Conference will be a landmark event, with an unprecedented gathering of world-renowned experts in planning, urban design, public health, architecture, social sciences, civic government, and allied fields.

Interested students should send their resume, a short statement (250 words) why the conference is of interest to them, and to which program they are applying (Scholarship or Volunteer) before March 1 to suzanne.lennard@livablecities.org.

More Info

Antwerp Summer University 2019: Antwerp Summer School on Urban Logistics

September 19-23, 2019

University of Antwerp, Belgium

Summer school on planning and managing the urban transport in urban areas under a dynamic context as today logistics: key for city sustainable development. An intensive immersion into the world of urban logistics, based on an introductory module covering all aspects of urban logistics (week 1) and an optional assignment preparation week (week 2) focusing on innovation and sustainability in the Industry in all its facets.

For more information, click the link below or apply [here](#).

More Info

6th International Conference on Women's Issues in Transportation
September 10-13, 2019
The Beckman Center, Irvine, CA

TRB is sponsoring the 6th International Conference on Women's Issues in Transportation (WIIIT 2019) on September 10-13, 2019 in Irvine, California. This conference explores women's perspectives, challenges, achievements, and opportunities with respect to travel and transportation.

This conference also provides an update on the progress and challenges in relation to women and mobility; explores how gender equality practices in transportation are increasing business and economics development; exchanges ideas on how public agencies can incorporate good gender equality policies and practices with approaches to oversee efforts and measure performance; and examines methods to address safety and security of women who are employed with or using transportation systems.

For more information, click the link below or register [here](#).

More Info

2019 Mobility 21 Southern California Transportation Summit: Beyond the Limits
Friday, September 27, 2019 7:30 am - 4:30 pm Pacific
Disneyland Hotel
1150 Magic Way, Anaheim, CA 92802

Save the date for Mobility 21's 2019 Summit! Mobility 21, Southern California's premier transportation coalition, is currently seeking sponsorships for their upcoming annual conference. Registration information is coming soon.

For more information, visit [Mobility 21's website here](#).

More Info

Massive Open Online Course (MOOC) on Sustainable Urban Freight
Open through September 2019

We are happy to announce the re-run of the successful Sustainable Urban Freight Transport MOOC on edX as of 4th December 2018. This time the MOOC is presented as a self-paced course, students and professionals can access the free course till September 2019.

The MOOC is the result of a collaboration between 8 partners of the global COE-SUFS network. It provides a unique cross-cultural introduction to city logistics, as experienced around the world (Netherlands, Japan, India, UK, Australia, South-Africa and Sweden).

For more information, contact [Tharsis Teoh at t.g.h.teoh@tudelft.nl](mailto:t.g.h.teoh@tudelft.nl) or click the link below.

More Info

Internships & Jobs

This Week's Featured Opportunities

South Bay Cities Council of Governments (SBCCOG)
South Bay, CA, USA



More Info

Job Title	Agency/Firm	Deadline
Planning Projects Manager (# 201901043)	City of Palo Alto	04/11/2019
	Palo Alto, CA	
Environmental Engineer/Physical Scientist/Life	U.S. Federal Government	

Scientist (# 529690700)	San Francisco, CA	04/11/2019
Engineering Intern (# 2019-2034)	Mead & Hunt	04/15/2019
	Windsor, CA	
Transportation Engineer (Civil)(# JC-150571)	Caltrans	04/19/2019
	Sacramento, CA	
Associate Engineer (# PEX-5207-903379)	City & County of San Francisco	04/19/2019
	San Francisco, CA	
District Asset, Sustainability, Innovation Manager (District 4 - Oakland) (# JC-151992)	Caltrans	04/26/2019
	Contra Costa, CA	
Transportation Program Manager II	City of Concord	04/29/2019
	Concord, CA	

We found **100+ more fresh positions** for you!

[Click here for more Jobs and Internships](#)

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