6th International Conference on Women’s Issues in Transportation

SEPTEMBER 10–13, 2019
Irvine, CA

Hosted by
Transportation Research Board

With support from
Federal Highway Administration

Organized by
Standing Committee on Women’s Issues in Transportation (ABE70)

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

TRANSPORTATION RESEARCH BOARD
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WELCOME LETTER
from the WIiT 2019 International Conference Steering Committee Co-Chairs

We are delighted to welcome all of you to the Arnold and Mabel Beckman Center of the National Academies of Science, Engineering, and Medicine for the 6th International Conference on Women’s Issues in Transportation (WIiT). Since the first WIiT conference in 1978, these gatherings have focused on women’s issues related to all aspects of travel and transportation. For this sixth conference, participants will reflect on these issues through the lenses of insights, inclusion, and impact.

This year’s attendance draws leaders in transportation from around the world to explore and address the gender differences in access to transportation and mobility, responsiveness of transport systems to needs and preferences of women, transportation safety, personal security, and participation of women in decision-making and wealth creation in the transportation sector. Look around the Beckman Center and you notice many young professionals and students attending this year. One of the features of the 6th WIiT Conference is a mentorship of students and young professionals to continue our work into the next generations. We challenge each and everyone of you to become acquainted with at least one of our global leaders and two of our younger attendees.

On Wednesday, September 11, join us for our reception and Marquee Dinner at the UC Irvine Student Center, where we will have an opportunity to network and interact with colleagues and hear from an inspiring panel of women leaders in transportation.

Special appreciation is extended to our conference planning committee and the Transportation Research Board staff for all of their hard work and dedication. We thank all of the panelists and speakers for providing their insight. I would especially like to express our sincere gratitude to our public and private sponsors, for without their support, this conference would not have been possible.

We hope you find the conference inspiring, informative and enjoyable.

Welcome to Irvine, California!

Therese McMillan,  
Bay Area Metro-Metropolitan Transportation Commission

Asha Weinstein Agrawal, Ph.D.,  
Mineta Transportation Institute  
San Jose State University
WIT 2019 PLANNING COMMITTEE

Asha Weinstein Agrawal, Mineta Transportation Institute, San Jose State University, Co-Chair
Therese W. McMillan, Bay Area Metro-Metropolitan Transportation Commission, Co-Chair
Flora Castillo, Pivot Strategies, LLC
Elizabeth Connell, Fehr & Peers
Dawn Hood, University of Minnesota, Twin Cities
Amanda Howell, University of Oregon
Judy Johnson, Jacobs
Tina M. Lee, Federal Highway Administration
Nathalie Martinez, University Transportation Research Center
Iderlina [Dertie] Mateo-Babiano, University of Melbourne
Mehri (Mehrsa) Mohebbi, Planning Communities, LLC
Hilary Nixon, Mineta Transportation Institute, San Jose State University
Sandra Rosenbloom, University of Texas, Austin
Eileen Ryder, Stantec
Shari Schaftlein, Federal Highway Administration
William Anderson, Transportation Research Board
Ted Jamele, Transportation Research Board
Gary Jenkins, Transportation Research Board
Samantha Stock, Transportation Research Board

The Transportation Research Board is one of seven major programs of the National Academies of Sciences, Engineering, and Medicine. The mission of the Transportation Research Board is to increase the benefits that transportation contributes to society by providing leadership in transportation innovation and progress through research and information exchange, conducted within a setting that is objective, interdisciplinary, and multimodal. The Board’s varied committees, task forces, and panels annually engage about 7,000 engineers, scientists, and other transportation researchers and practitioners from the public and private sectors and academia, all of whom contribute their expertise in the public interest. The program is supported by state transportation departments, federal agencies including the component administrations of the U.S. Department of Transportation, and other organizations and individuals interested in the development of transportation.

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To move is to live.

Secretary Norman Y. Mineta (Ret.) &
the Mineta Transportation Institute
Board of Trustees applaud the 2019 WiIT
Conference Planning Committee including:

Committee Co-Chair
Asha Weinstein Agrawal of the
Mineta Transportation Institute at
San José State University

Program Co-Chair Hilary Nixon of
the Mineta Transportation Institute
at San Jose State University

Our mission is to increase mobility for all by improving
the safety, efficiency, accessibility, and convenience
of our nation’s transportation system.

Through research, education, workforce development
and technology transfer, we help create
a connected world.

CM²
Cooperative Mobility for
Competitive Megaregions

MISSION
The consortium of Cooperative Mobility for Competitive Megaregions (CM²) aims to advance research, education, and technology transfer initiatives to improve the mobility of people and goods in urban and rural communities of megaregions.

VISION
The CM² consortium will build legal, governmental, technical, and analytical frameworks for megaregion transportation planning.
COMMITTEE MEETINGS

TUESDAY SEPTEMBER 10, 2019

12:00 p.m.–5:00 p.m.
Registration Open

1:00 p.m.–3:00 p.m., Huntington Room

ABE70 Standing Committee on Women’s Issues in Transportation
This is a meeting of TRB’s Standing Committee on Women’s Issues in Transportation.
Dawn Hood, Center for Transportation Studies, University of Minnesota

3:30 p.m.–4:30 p.m., Huntington Room

Steering Committee Meeting
International Conference on Women’s Issues in Transportation Planning Committee Meeting
Therese W. McMillan, Bay Area Metro-Metropolitan Transportation Commission
Asha Weinstein Agrawal, Mineta Transportation Institute (MTI)—San Jose State University

4:30 p.m.–5:30 p.m., Huntington Room

Rapporteur Meeting
Planning session
Asha Weinstein Agrawal, Mineta Transportation Institute (MTI)—San Jose State University
Iderlina Mateo-Babiano, University of Melbourne

Metro is proud to support the 2019 Women’s Issues in Transportation Conference.
CONFERENCE PROGRAM

WEDNESDAY SEPTEMBER 11, 2019

7:00 a.m.–3:30 p.m.
Registration Open

7:30 a.m.–8:30 a.m., Dining Room
Continental Breakfast

8:30 a.m.–10:30 a.m., Auditorium
OPENING REMARKS AND WELCOME
Insights: How Has Women’s Travel Behavior Changed in the Past 30 Years?
Welcome and opening remarks, followed by a review of the history of Women’s Issues in Transportation (WIiT), and discussion of global trends in travel behavior research.
Moderator: Therese McMillan, Bay Area Metro-Metropolitan Transportation Commission

History of Women’s Issues in Transportation
Sandi Rosenbloom, University of Texas, Austin

Long-term Trends in the United States
Nancy McGuckin, Travel Behavior Associates

Long-term Trends in Asia
Derie Mateo-Babiano, University of Melbourne

European Research Programmes Anticipating Behavioural Changes
Cristina Marolda, European Commission, Association for European Transport (AET)

10:30 a.m.–10:45 a.m.
Morning Networking Break

10:45 a.m.–12:15 p.m., Catalina
TECHNICAL SESSION
Getting There by Bike
Why do fewer women bike? A gender gap exists in biking. Can data demonstrating this gender gap be used to improve policies, as well as design and plan bike programs and infrastructure? Attend this session to learn more about this gap and how safer infrastructure encourages women to bike more often in urban settings.
Moderator: Hilary Nixon, Mineta Transportation Institute, San José State University

Does Safer Cycling Infrastructure Encourage More Women to Bike?
Haynes Bunn, Strava

Better Bicycling Environments for Women
Dillon Fitch, University of California-Davis

Deterrents in Cycling as Mode Choice of Urban Low-Income Women in Navi Mumbai, Maharashtra
Aruna Reddi, Pillai College of Architecture
10:45 a.m.–12:15 p.m., Newport

**TECHNICAL SESSION**

**Better Access: Policy Strategies for Gender and Equity in Transportation Systems**

Transportation is frequently thought of as gender neutral since the assumption is that all genders equally benefit from it. Spoiler alert—equitable transportation should not be equal. Strategic transportation management and policy can support designing and planning for mobility needs and travel behaviors.

*Moderator:* Laurie Pickup, Vectos

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**Women's Access to The City**
Leticia Bortolon, Institute for Transportation and Development Policy

**A Common Disjuncture? Ideals Of Gender-Sensitive Transportation Planning and the Comprehensive Transportation Study Of Hyderabad?**
Samikchhya Bhusal, Soka University of America

**Community Conversations: Advancing Transportation Equity Through In-Depth Interviews**
Hally Turner, Minnesota Department of Transportation

**Access, Travel Patterns and Safety of Women in Cairo's Public Transportation.**
Salma Mousallem, United Nations Habitat

**How Women Are Excluded from Active Travel**
Sherry Ryan, San Diego State University

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10:45 a.m.–12:15 p.m., Huntington Room

**TECHNICAL SESSION**

**Recognize a Pattern? Travel Behavior 101**

Unlike a couple of decades ago, there is a baseline of knowledge and study around gender perspectives and behaviors when using transportation. Women have less access to transportation options while requiring a higher demand and need for using it. How can transportation planners and decision-makers use this knowledge and data to influence better mobility planning standard, procedures, and methodologies?

*Moderator:* Hilary Nixon, Mineta Transportation Institute—San Jose State University

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**Current Knowledge and Practice on Gender and Travel: A Literature Review**
Madeline Brozen, UCLA Lewis Center for Regional Policy Studies

**Teleworkers in the Southern California: Their Travel, Their Future, and How They Differ by Gender**
Michelle Bina, Cambridge Systematics

**Understanding How Women Travel**
Meghna Khanna, LA Metro

**Travel Behaviour of Female Slum Dwellers in Mega City of Kolkata, India**
Suchismita Nayak, Indian Institute of Technology Kharagpur
10:45 a.m.–12:15 p.m., Irvine Cove  
**Video Documentary—All Else Equal**  
*Facilitated by Anne Jarrigeon, Paris School of Urban Planning, Paris Est University*

10:45 a.m.–12:15 p.m., Auditorium  
**PANEL DISCUSSION**  
**Advancing Women in Transportation**  
*A moderated panel discussion on advancing the needs of women in transportation.*  
*Moderator: Brianna Pilkinton, Environmental Department Manager, Burns and McDonnell; President of the San Diego County Chapter of WTS*  
*Five panel members include:*  
Maggie Walsh, Vice-President and Strategic Clients and Pursuits Leader at HDR Inc., and WTS International Board Chair; Nadine Lee, Interim Chief of Staff at Los Angeles Metro, 2019 WTS International Woman of the Year; Noopur Jain, Regional Delivery Manager at California High Speed Rail Authority, Chair of the Western Regional Council of WTS; Jeannie Lee, Senior Project Manager of Highway Programs at Orange County Transportation Authority, President of the WTS Orange County Chapter, WTS Orange County (2013) and WTS International (2014) "Member of the Year"; and Lima Saft, Acting Project Manager and Connected and Autonomous Vehicle Program Manager at the California Department of Transportation in San Diego, and Vice-President of the San Diego County Chapter of WTS.

12:15 p.m.–1:15 p.m., Dining Room  
**Lunch**

1:15 p.m.–2:30 p.m., Auditorium  
**PANEL DISCUSSION**  
**Harassment on Public Transit**  
*Moderator: Stephanie Wiggins, Metrolink*  
*This moderated panel discussion will underscore the growing problem of harassment and sexual assaults occurring on public transit systems in major metropolitan areas.*

**Sexual Violence in Public Transportation in Stockholm, Sweden: The Influence of Individual and Environmental Factors**  
Vania Ceccato, Kathmandu (KTH) Royal Institute of Technology

**Planners’ Visions of Transit Sexual Assault: the Problem of Deproblematicizing Beliefs**  
Gwen Kash, Georgia Institute of Technology

**Anti Sex Offence Campaign on Metro Vancouver Transit**  
Stephen Crosby, Metro Vancouver Transit Police  
Patrick Koch, Metro Vancouver Transit Police, Null

**Sexual Harassment in Transit Environments: A Global Look**  
Anastasia Loukaitou-Sideris, University of California, Los Angeles
2:30 p.m.–3:30 p.m., Atrium

Poster Session and Networking Break

Follow the conference on Twitter [https://twitter.com/wiit2019] to vote on your favorite poster and tweet 3 great ideas you learned.

Moderator: Hilary Nixon, Mineta Transportation Institute, San José State University

Bringing a Gender-based Lens to CAV Planning and Development
Heidi Corcoran, University of Minnesota—Humphrey School of Public Affairs

Increasing Gender Inequality in Municipal Public Transport by Non-Decision Making
Vered Uziel and Fany Yuval, Ben-Gurion University of the Negev

Developing a Transport Innovation Gender Observatory to Address Gender Inequalities in Transport in Europe
Andree Woodcock, Coventry University

Why Did You Choose an SUV? Identifying Gender Differences in Latent Vehicle-Type Propensity Segments
Xinyi Wang, Georgia Institute of Technology

Measures to Promote Innovative Urban Mobility Solutions for Women
Ines Kawgan-Kagan, Technical University Berlin

Understating the Significance of Gender-Based Equity in Road Safety—A Bengaluru Case Study
Ashish Verma, Indian Institute of Science, Bangalore

Influencing Factors in Autonomous Vehicle (AV) Usage Willingness of Pregnant Women
Binya Zhang, University of Maryland, College Park

Gender Difference in Speed Selection
Reut Sadia, Technion—Israel Institute of Technology

The Gender Role on the Effectiveness of an Eco-Speed Control System in The Vicinity of Signalized Intersections: A Driving Simulator Study
Samira Ahangari, Morgan State University

Real-time Detection of Pregnant Women Pedestrians Using Camera
Amir Nohekhan, University of Maryland

A Gender Meta-Analysis of Transport Innovation Acceptance: Women Approve Change
Jana Sochor, Chalmers University of Technology & RISE Viktoria

Gendered Travel at Every Age: Trip Purpose and Frequency among Georgia Residents Ages 5-100
Gwen Kash, Georgia Institute of Technology

Gender Trends and Differences in Driving, Biking, and Safety
Shari Schaftlein, Federal Highway Administration

Maternal Exposure to Traffic-related Air Pollution in South Texas.
Suriya Vallamsundar, Texas A&M Transportation Institute
3:30 p.m.–5:00 p.m., Huntington Room

TECHNICAL SESSION

Human Trafficking

Moderated panel discussion on human trafficking.

Moderator: Elizabeth Connell, Fehr and Peers

How the Transportation Industry is Combatting Human Trafficking
Emma Lowe, Pennsylvania Department of Transportation

Combating Human Trafficking in the Transportation Sector
Julie Abrahams, Office of International Transportation and Trade, Office of the Secretary of Transportation, U.S. Department of Transportation

Human Trafficking in Our Transportation System
Chris Baglin, Project Performance Company

3:30 p.m.–5:00 p.m., Catalina

TECHNICAL SESSION

More Likely Harmed: Crashes, Safety, and Gender

There are studies showing women are roughly 70% more likely to be severely injured or killed in a car-crash than men. With the introduction of A.I. data, there is a chance to reduce this disparity and improve safety through data collection. Panelist will discuss their studies of women’s risk to harm in car accidents and the data supporting it.

Moderator: Dawn Hood, Center for Transportation Studies, University of Minnesota

The Impact of Gender on Injury Outcomes Associated with Motor Vehicle Crashes Through a Linked Analysis of Crash and EMS Data
Alyssa Ryan, University of Massachusetts Amherst

Women or Men at Risk? A Multi-Level Analysis of the Decision to Travel with a Drunk Driver
Jose Ignacio Nazif-Munoz, Harvard University

A Study on Quantification of the Interaction Between Crash Contributing Factors In Fatal Crashes Among Female Drivers with a Focus on Alcohol Misuse Using Social Network Analysis Method
Sevin Mohammadi, The University of Tennessee Knoxville

3:30 p.m.–5:00 p.m., Auditorium

PANEL DISCUSSION

Transportation Tech: Moving Women

Shared and smart mobility options seem to have a mixed perspectives in regard to benefits and barriers for women. Shared mobility provides flexible employment and travel options, although, much like transit, safety is a concern. As we move toward greater transportation equity for gender, what can the public and private sector entities do to keep women safe as a driver and as a user?

Moderator: Cristina Marolda, Association of European Transport—AET

The Effect of Attitudes on Women’s Willingness to Share Autonomous Vehicles
Denise Capasso da Silva, Arizona State University
From Exclusive to Inclusive: Addressing the ‘Gender’ Component in Smart Mobilities Discussions
Tanu Priya Uteng, Institute of Transport Economics

Transformational technologies impact on women
Cristina Marolda, Association of European Transport—AET

Tour formation of ride-hailing users: A gender perspective
Rezwana Rafiq, Institute of Transportation Studies, University of California, Irvine (UCI)

Can Autonomous Vehicles Help Liberate Women?
Andrea Broaddus, Ford Motor Company

3:30 p.m.–5:00 p.m., Newport

TECHNICAL SESSION

Inclusion
Transportation takes men and women to work, healthcare centers, grocery stores, schools, and many other social venues. Although, it does not provide equitable access for women as to men. Studies are beginning to show how including women in the transportation workforce, education, and public involvement aspects of planning enhances equitable transportation among gender. In this session, panelists will present data sets and programs supporting inclusion of women in the transportation system.

Moderator: Brittney Gick, Texas A&M Transportation Institute

Women Inclusion in the Transport System by Applying a Novel Structured Methodology: The Inclusion Diamond and Polyhedral Individual Model.
Francisco Santarremigia, AITEC

The DIAMOND Method: Revealing Actionable Knowledge from Data to Support Fair Women’s Inclusion in the Transport System.
Fanny Breuil Aymami, EURECAT

Does Who You Know Get You Places? The Role of Social Capital in Transport Disadvantage
Laurel Johnson, University of Queensland

Women’s Perceptions of Service Quality in Transit: A Case Study of Tehran Metro
Meeghat Habibian, Amirkabir University of Technology

Relationship Between Tunisian Women’s Empowerment and Mobility Behaviors Using Activity Based Model
Nadia Labidi, SEKET University
**3:30 p.m.–4:15 p.m., Executive Dining Room**

**Photo Essay and Discussion—Women Lead the Way in Community Mobility**

This session will be given as visual presentation; a photo-led display showcasing women in leadership positions at rural, small-urban, specialized and tribal transit operations across the United States. Women in leadership roles at these agencies stand in contrast with the heavily-male balance often found at large-urban systems. These photos highlight women in their transit facility, in the community and at meetings; as drivers and dispatchers, or any other important role they may play. Alongside the candid photos of the women, we’ll be discussing our conversations with them—revealing information we learned and brief descriptions of their role. Following the presentation, there will be an opportunity to discuss the trends we found and any questions participants might have. Follow the conference on Twitter (https://twitter.com/wiit2019) and post your reaction and comments.

Alex King, Community Transportation Association of America
Taylor McGinley, Community Transportation Association of America (CTAA), Communications Specialist

**4:30 p.m.–5:30 p.m., UCI Woods Cove AB**

**STUDENT SESSION**

**Letter to my Younger Self: Leadership Insights to Grow a Career in Transportation**

Attend this insightful and thought-provoking session to learn first-hand from women transportation professionals across various disciplines (i.e. transit, highway, port and aviation) in the public and private sectors on the advice that they would give their younger-self based on how they have achieved professional growth and what support systems they rely upon. Attend this session if you are an emerging leader or a graduate student looking to gain real-life advice and strategies from seasoned professionals in our industry.

**Moderators:** Flora Castillo, Pivot Strategies, LLC; Stacy Weisfeld, Transportation Policy Analyst, Los Angeles Mayor Eric Garcetti

**5:30 p.m.–8:30 p.m., UCI Pacific Ballroom D**

**MARQUEE RECEPTION AND DINNER**

**Leadership at All Levels: Insight, Inclusion, and Impact through a Career in Transportation**

The panel will focus on the opportunities and impact women can have in envisioning and implementing changes that create better access and mobility for women. So, how do we do we attract, support, and advance women in the transportation field? Panelists represent different stages of their career arc, and all are in key visioning and decision-making roles. They will share personal stories and insight on pivotal career choices; opportunities taken and challenges faced; and recruiting, inspiring, and mentoring others in the industry.

**Moderator:** Eileen Ryder, Stantec

**Setting the Table Panelists:**
Laura Corejo, City of Pasadena
Genevieve Giuliano, University of Southern California, and METRANS
Stephanie Wiggins, MetroLink
THURSDAY SEPTEMBER 12, 2019
7:00 a.m.–4:00 p.m.
Registration Open
7:30 a.m.–8:30 a.m., Dining Room
Continental Breakfast

8:30 a.m.–10:00 a.m., Auditorium
PANEL DISCUSSION
Insight, Inclusion, and Impact through Organizational Support of Women’s Advancement in the Transportation Industry
This panel will focus on how public sector, private sector and educational institutions can support the career advancement of women in the transportation industry. We will discuss policy- and implementation-level strategies that break down barriers and support the professional development and advancement of women. Panelists represent the public sector at the state and local level, private sector and academia. They will share insights, strategies and successes; and they will share accomplishments and ongoing challenges.
Moderator: Judy Johnson, Jacobs
Laurie Berman, California Department of Transportation (retired)
Winsome Bowen, Facebook
Victoria Deguzman, University of Southern California
Elba Higueros, LA Metro

Congratulations
APTA Congratulates the Transportation Research Board on its 6th International Conference on Women’s Issues in Transportation and commitment around transportation equity and travel issues.
apta.com
PANEL DISCUSSION

Women in Motion Initiative—Empathic Dialogues Workshop

The Empathic Dialogues Workshop has a methodology that seeks to pass knowledge and investigation through practical exercises, where participants learn by observing, experiencing, discussing and designing solutions together for a more inclusive transport. The Empathic Dialogues Workshop’s objective is to introduce concepts of leadership and apply knowledge and investigation to design projects that are effective, have a focus on public policy, and can be implemented. This workshop will give the participants the tools to better design projects, public policies, and research proposals that can be applied with impact in cities.

WIM is responsible for organizing the workshop methodology and contents, as well as facilitating the session. The workshop’s structure is as follows:

- 5 min—Introduction of Uber, WIM, and participants
- 10 min—Uber’s initiatives on gender
- 20 min—Technical presentation on leadership tools and how to impact public policy
- 40 min—Work in groups
- 15 min—Final discussion in plenary on main results of the group work

Moderator: Daniela Chacón Arias, TANDEM Foundation

Empathic Dialogue
Sofia Salek, PTV Group
Empathic Dialogue
Elizabeth Ortiz, PTV Group

TECHNICAL SESSION

Perceptions and Realities of Women’s Safety on Transit

Transit agencies have been intervening to reduce risks of sexual assault and sexual harassment of women using their service. However, statistics of assault on transit and reports of assault through the #MeToo movement effect public perceptions and increase fears for many women using transit. What are government and transit agencies doing to increase women’s safety when using their service? How are they attempting to improve their image as a safe transportation option?

Moderator: Heather Allen, Transport Research Laboratory

How does perceived safety influence the ridership of public transport routes involving transfers? A gender perspective.
Subeh Chowdhury, University of Auckland

Sexual Harassment in Public Transit Environments—A Review of Evidence and Interventions
Hao Ding, University of California, Los Angeles

São Paulo female college students’ transit safety: an overview of gender violence and spatial dynamics considering gender, race and class
Marina Kohler Harkot, University of São Paulo
Public transport trips for work or study in Bangladesh and Cambodia: women’s perceptions of risk
Mark King, Centre for Accident Research and Road Safety (CARRS-Q), Queensland University of Technology (QUT), Australia

10:30 a.m.–12:00 p.m., Newport
TECHNICAL SESSION
Mom and Her Munchkins on the Move
Health and safety issues arise for mothers with children in tow using transportation. These issues vary widely based on culture and place. Traveling with children limit accessibility and mobility options for many mothers. Trips to work, to the store, to school, to medical appointments, or during emergency evacuations all have challenges and risks for mothers than other users of transportation. How are communities and transportation agencies using travel behavior of mothers to provide them a better and safer service?
Moderator: Laurel Johnson, University of Queensland

Towards an Understanding of Single Mothers’ Urban Mobility. A Comparative Analysis of Parents’ Travel Patterns in the Paris region.
Gonçal Cerdà Beneito, Laboratoire Ville Mobilité Transport, Université Paris-Est aUPA Project
Verónica Mansilla, 1319.TreceDiecinueve

The “Mobility of Care” in Developing Countries: The Case of Tunja, Colombia
Luis Marquez, Universidad Pedagogica y Tecnologica de Colombia
Alejandra Sánchez, Universidad Pedagógica y Tecnológica de Colombia

Evaluation of Travel Pattern of Young Mothers in Developing Countries (A Case Study of Lahore)
Hina Saleemi, University of Engineering and Technology

Travel Behavior and Mobility Needs of Elderly Women in Rural America
Suman Mitra, University of California, Irvine

The Move Woman Project: Getting from Here to There with Kids in Tow
Sirinya Matute, City of Santa Monica

Insights on Single Mothers’ Issues in Emergency Evacuation
Lorraine Acevedo, Embry-Riddle Aeronautical University
TECHNICAL SESSION

By Bike. By Car. By Bus—Women Commuting

Gender differences in commuting behaviors are recognized in many nations. What are the drivers of these differences? How can this information affect modal choice and favor sustainable mobility policies and equity? How do genders perceive commute times, safety, and reliability when choosing transportation options?

**Moderator:** Susan Handy, University of California, Davis

- Work trip mode choice of men and women in Germany including partner interactions
  Bhuvanachithra Chidambaram, TU Dortmund University

- Key Transport Issues for Working Women in Bangladesh—Mapping with the Bus Rapid Transit (BRT)
  Sharmin Nasrin, University Of Asia Pacific, Dhaka, Banglaesh

- Travel behaviour of working women in Indian cities
  Monika Singh, School of Planning and Architecture Delhi
  Sanjay Gupta, School of Planning & Architecture Delhi

- Gender Differences in Commute Quality: Evidence from UC Davis
  Susan Handy, University of California, Davis

- Intersectional Inequality: Gender, Race, and the Commute Burdens of Low-wage Workers
  Virginia Parks, University of California, Irvine

- Women’s travel times and distances in a sample of Latin American cities
  Maria Tadeo, University of California, Berkeley

PANEL DISCUSSION

Moving Women to More Opportunities: Developing Our Workforce

The issue of including women in the decision-making process, taking a “seat at the table,” and promoting women in leadership roles has been a topic of discussion, but we are still not even close to having women in decision making roles and power positions. This leads to the question we will address through a panel discussion 5 local WTS leaders. Namely, what can we, as transportation industry professionals, do to encourage more women to enter and thrive in transportation careers?

In this panel discussion, we will share the successes and failures of the tactical strategies that we’ve used to get more women into transportation and to the top of their field, such as our Pecha Kucha-style “thunder talks” and awarding scholarships to promising young women entering STEM fields. We will then open the panel to audience input and questions.

**Moderator:** Iderlina Mateo-Babiano, University of Melbourne

- Attracting and Retaining Women in the Transportation Industry
  Jodi Godfrey, Center for Urban Transportation Research at the University of South Florida

- The Gender Gap in Asia’s Largest Railway Network: Investigating Women Employees, Management and Trade Unions’ Response
  Leena Sachdeva, Indian Institute Of Management Kashipur India
A Rapid Assessment of “She to Sea” Gender Equality Campaign in the Philippines in Empowering Filipino Women in the Transport Shipping Industry
Iderlina Mateo-Babiano, University of Melbourne

Claudia Galicia, LA Metro

Women in Transportation: Creating an Inclusive Workplace Together
Aundrea Sebjanic, City of Calgary

12:00 p.m.–1:00 p.m., Dining Room
Lunch

1:00 p.m.–2:30 p.m., Auditorium
PLENARY SESSION

Active Transportation: The Forces Shaping Women’s Travel Decisions
Moderated panel discussion on how women’s travel decisions are influenced by a variety of social factors and conditions.
Moderator: Melissa Dugan, City of Irvine and President WTS Inland Empire Chapter

From Childhood to Widowhood: A Woman’s Journey
Sandra Rosenbloom, The University of Texas at Austin

Factors influencing women cycling in Bogotá, Colombia
Mauricio Orozco, Universidad Militar Nueva Granada

Bicycling and Women of Color
Jennifer Dill, Portland State University

Forces Shaping Women’s Travel Decisions
Megan Wier, San Francisco Department of Public Health

ARE YOU CONNECTED? BECOME A FRIEND.

ABE70 TRB’s Standing Committee on Women’s Issues in Transportation
Advance the practice and research of women and gender transportation issues by becoming a Friend of the committee.

Go to MyTRB at www.TRB.org
2:30 p.m.–3:30 p.m., Atrium

Poster Session & Networking Break

Follow the conference on Twitter [https://twitter.com/wiit2019] to vote on your favorite poster and tweet 3 great ideas you learned.

Moderator: Hilary Nixon, Mineta Transportation Institute—San Jose State University

Gender-Based Differences in Activity Space and Travel Pattern Analysis
Naila Sharmeen, University of California, Irvine (UCI)

Soccer moms: Children’s Travel Behavior and Their Parents’ Automobility
Miwa Matsuo, Kobe University

Moving to Modesto: Can Car-Oriented Developments Provide High Accessibility for Women?
Erin Cooper, University of Antwerp

Analyzing Grocery-Shopping Travel Behavior by Women in Baltimore Using Zero-Inflated Negative Binomial Models
Samira Ahangari, Morgan State University

The highlight of her life: “My Son Was Born in the Same Month Highway 531 Was Inaugurated”
Tal Shalom Rosen, Netivei Israel, National Transport Infrastructure Company

Women—Why Knowing Your Vehicle Matters
Reut Sadia, Technion—Israel Institute of Technology

Can a New Emergency Response System Reduce or Increase the Gender Gap of Traffic Fatalities? The Case of Dominican Republic.
Jose Nazif-Munoz, Harvard University

Toward Livability Ethics, Equity, & Justice, and a Charter for Street Humanity and Human Rights for Gender Equity in Transportation
Bruce Appleyard, San Diego State University

Women’s Motivations and Barriers to Cycle within a University Campus in the Philippines
Keisha Alena Mayuga, University of the Philippines

Risky and Protective Behavioral Patterns in Cycling: An International Gender-Based Comparative Study on Healthy Transportation
Sergio Useche, University of Valencia

Gender Trends in Transportation Research Publications Over the Last Decade
Suzana Duran Bernardes, New York University

#Metoo: Women and public transportation
Mauricio Orozco, Universidad Militar Nueva Granada

Marina Harkot, University of São Paulo

Single-Parent’s Access to Child Care
Ma’ayan Dembo, University of California, Los Angeles

Insight into Problems and Challenges of Working Women Who Commute to Work in Mumbai, India: Does Communing Affect Women?
Prashika Kurlikar, International Institute For Population Science
Using Social Capital Data to Account for Heterogeneity in Activity Behavior Within and Between Genders
Michael Maness, University of South Florida
Trang Luong, University of South Florida

Women Only: Navigating Women-Only Spaces on Metro Systems in India
Ankita Dhusa, The Fulbright Program

3:30 p.m.–5:00 p.m., Auditorium
PANEL DISCUSSION
Framing the Future for Women in Transport through Collaborative Research
Women in Transport: European research and innovation projects and actions to enable fair and equal access. What are future areas for EU-US R&I collaboration to advance women inclusion throughout transport will be discussed.
Maria Carbone, Directorate General for Mobility and Transport, European Commission
Shari Schaftlein, Office of Human Environment, Federal Highway Administration, U.S. Department of Transportation
Robert Missen, Directorate General Mobility and Transport, European Commission
Patricia Hu, Bureau of Transportation Statistics, U.S. Department of Transportation
Wafaa Saleh, Edinburgh Napier University
Andree Woodcock, Coventry University
Danyell Diggs, Office of Research, Demonstration, and Innovation, Federal Transit Administration, U.S. Department of Transportation
Jasmy A. Methipara, Office of Transportation Policy, Federal Highway Administration, U.S. Department of Transportation

3:30 p.m.–5:00 p.m., Newport
TECHNICAL SESSION
Analysing the Patterns: Gendered Differences in Travel Behavior
We recognize the difference in travel behaviors between genders, but what does that mean to a decision maker, planner, and operator? Gender is a key socio-economic and socio-demographic attribute to influence travel behavior. Through analysis, a better understanding of how gender is such an influence could improve equity in transportation policy and planning.
Moderator: Sherry Ryan, San Diego State University

Interdependence, Gender and Mobility: Understanding Mobility Strategies Through an Ethnographic and Time Use Lens
Juan Carrasco, Universidad de Concepción

Analysis of Ownership and Travel Behavior of Women Who Drive Electric Vehicles: The case of Maryland
Amirreza Nickkar, Morgan State University

Gender Differences in Predicted Travel Activity in Atlanta using an Activity Based Model with Path Retention
Yingping Zhao, Georgia Institute of Technology
Do More Accessible and Walkable Built Environments Promote Gender Equality in Daily Travel Behaviors? A Case Study in Los Angeles
Ashley [Wan-Tzu] Lo, Tohoku University
Douglas Houston, University of California, Irvine

When Inconvenience Improves Equity: Comparing Gendered Distinctions in Food Access Travel between Rural and Urban Residents
Gregory Newmark, Kansas State University

3:30 p.m.–5:00 p.m., Catalina

TECHNICAL SESSION
Inequitable Effects: Access, Mobility, and Gender
We recognize the differences in travel behaviors by gender, but what does that mean to a decision maker, planner, and operator? Gender is a key socio-economic and socio-demographic attribute influencing travel behavior. Through analysis, a better understanding of how gender as an influencer could improve equity in transportation policy and planning.
Moderator: Jodi Godfrey, University of South Florida

Towards an Equitable Transport System in Kuwait
Reem Alfahad, London School of Economics
Transportation barriers to healthcare among women in the U.S.
Noreen McDonald, University of North Carolina, Chapel Hill
Planning for Women’s Mobility in India: Case of Panchkula
Seema Singh, Cornell University

3:30 p.m.–5:00 p.m., Executive Dining Room

TECHNICAL SESSION
Priority One—Global Challenges for Women’s Safety and Security on Transit
Women traveling by transit face many safety fears related to health, physical safety, and risky situations. Women are more likely to be victims of assaults and harassment than men when using transit. The fears must be overcome for each trip—overcome once contented with all potential risks on the bus or train. But in general, fear is a warning signal for survival. What must women do to learn about cultural difference before traveling abroad to recognize safety and security risks? Listen to case studies of safety and security challenges for women in transit.
Moderator: Vania Ceccato, Kathmandu (KTH) Royal Institute of Technology

North American Transit’s Approach to Personal Security and Awareness
Polly Hanson, American Public Transportation Association

Academic women and travel
Andree Woodcock, Coventry University

Women’s Account
Marina Moscoso, Despacio.org
Jose Segundo López, World Resources Institute Ross Center for Sustainable Cities

A Study on the Satisfaction Level of Women Public Bus Users in Dhaka, Bangladesh.
Nawshin Tabassum, Bangladesh University of Engineering & Technology
TECHNICAL SESSION

Hopes in New Technologies

Technologies designed for automation in transportation, greater shared mobility, and improved digital mobility services offer a new hope for women's safety, accessibility, and employment. What can be done today to ensure our hopes in these new technologies become reality? Participate in the discussion and become part of the solution.

Moderator: Andrea Broaddus, Ford Motor Company

Think Different: Reframing Jobs in an Autonomous Future
Shivani Shukla, University of San Francisco
William Riggs, University of San Francisco, School of Management

Bringing a Gender-Based Lens to CAV Development and Planning
Heidi Corcoran, University of Minnesota—Humphrey School of Public Affairs
Ania McDonnell, University of Minnesota—Humphrey School of Public Affairs
Shannon Engstrom, University of Minnesota—Humphrey School of Public Affairs

Optimizing Shared Automated Vehicles for Women
Angela Sanguinetti, UC Davis Institute of Transportation Studies

Gender differences in using digital mobility services and being mobile
Claudia Nobis, Institute of Transport Research, German Aerospace Center

Thursday Evening Social Activity (Informal)
Informal social activity. Check @wiit2019 on Twitter for program updates.
Flora Castillo, Pivot Strategies, LLC
FRIDAY SEPTEMBER 13, 2019

7:00 a.m–11:00 a.m.
Registration Open

7:30 a.m.–8:30 a.m., Dining Room
Continental Breakfast

8:30 a.m.–10:00 a.m., Auditorium
PLENARY SESSION

Impacting Policy: Crossing the Aisle and Threading the Needle

Influencing policy is essential to improving the future of women and girls, and can take many forms—governmental legislation, stakeholder advocacy and philanthropic funding being three of the most fundamental. How the policy table gets set—and who sits in the chairs around that table—has and continues to be both a challenge and opportunity for women in the transport and sector and beyond. Maneuvering within those three policy arenas involve different experiences and strategies; key questions consider:

- How does one get to the Policy Table- and wield power and influence to effectuate meaningful change?
- What challenges exist for women policy makers/influencers involved in government, advocacy and philanthropy? Common themes or important distinctions?
- How can research- facts, data, analyses- be used to influence transport policy, especially addressing issues impacting women and girls?
- Is there room for a “Big Table” where these three arenas of influence can intersect and reinforce each other— and can women leaders define and lead that opportunity?

Our panel of leaders will speak to these questions, and how transport and related policy development can drive meaningful change, in a time when “#MeToo” and other movements are dramatically impacting the context wherein such policy takes shape.

Moderator: Therese McMillan, Bay Area Metro

Impacting Policy Panelists
Connie Galambos, Urban Habitat
Tamika L. Butler, Toole Design
Tilly Chang, San Francisco County Transportation Authority
10:00 a.m.–10:30 a.m.
Morning Networking Break

10:30 a.m.–12:00 p.m., Auditorium
PANEL DISCUSSION
Onward from WiT 2019—Emerging Leaders Framing the Future for Women
In this closing panel discussion, emerging professionals and doctoral students will reflect on key lessons to be drawn from the conference. These speakers—the future leaders of transportation—will share what we as a community have learned about concrete steps our industry should take to improve women’s transportation futures. What are the key research needs for the coming decade and, more broadly, for the world? What are promising actions that will bring about impactful change in the near, medium, and long terms?
Moderator: Asha Weinstein Agrawal, Mineta Transportation Institute (MTI)—San Jose State University
Onward from WiT 2019 Panelists
Amanda Howell, University of Oregon
Elizabeth Connell, Fehr & Peers
Bhuvanachitra Chidambaram, TU Dortmund University
Huê-Tâm Jamme, University of Southern California

12:00 p.m.–1:30 p.m., Dining Room
CONFERENCE CONCLUSION AND WORKING LUNCH
During the final working lunch attendees will have the opportunity to debrief the conference with other participants, share their key takeaways, brainstorm next steps, and deepen connections through a series of guided table activities
Therese W. McMillan, Bay Area Metro—Metropolitan Transportation Commission

Thank you
The Steering Committee and TRB Staff extends their appreciation to the rapporteurs summarizing conference session conversations.
Ashley Hooper, University of California, Irvine
Lupita Huerta, University of California, Los Angeles
Annaleigh Yahata Ekman, University of California, Los Angeles
Sue Dexter, University of Southern California
Jonathan Stanton, San Diego State University
Kavina Patel, University of Southern California
Shannon McCarthy, University of California, Berkeley
Lily MacIver, University of California, Berkeley

Thank you
UCI STUDENT CENTER FLOOR MAP
DIRECTIONS AND MAP TO UCI STUDENT CENTER

DRIVING AND WALKING DIRECTIONS
Beckman Center of the National Academies of Sciences, Engineering, and Medicine to the UCI Student Center & Event Service Building
→ Head east toward Academy Dr. – 79 ft
→ Turn right toward Academy Dr – 85 ft
→ Turn left onto Academy Dr – 0.3 mi
→ Turn left onto West Peltason Dr – 0.5 mi
→ Turn right onto Pereira Dr – 259 ft

SHUTTLE SERVICE
A UCI shuttle service is provided between the Beckman Center, UCI Student Center, and the Hyatt Hotel. Shuttles operate 3:30 p.m.–9:30 p.m. on Wednesday, September 11.

SEE YOU AT THAT WiiT MARQUEE RECEPTION AND DINNER.
WEDNESDAY, SEPTEMBER 11
5:30 p.m.–8:30 p.m., UC Irvine Student Center, Pacific Ballroom D

Mentorship is the focus of this fabulous evening. Learn about the most recent developments in the field and network with professionals and academics from the world. The panel will focus on the opportunities and impact women can have in envisioning and implementing changes that create better access and mobility for women. So, how do we do we attract, support, and advance women in the transportation field? Panelists represent different stages of their career arc, and all are in key visioning and decision-making roles. They will share personal stories and insight on pivotal career choices; opportunities taken and challenges faced; and recruiting, inspiring, and mentoring others in the industry.

Speakers include
Stephanie Wiggins, Chief Executive Officer at Metrolink, Laura Cornejo, Director of Transportation for the City of Pasadena, and Genevieve Giuliano, Professor at USC Price School of Public Policy and Director of METRANS, and many more!
The table below shows the professional development hours (PDH) that can be earned for the continuing education activities included in the Transportation Research Board Technical Sessions and Events at the Sixth International Conference on Women’s Issues in Transportation on the Insights, Inclusion, and Impact: Framing the Future of Women in Transportation, Irvine, California, September, 10-13, 2019.

Dr. Ann M. Brach
Director, Technical Activities

6th International Transportation and Economic Development Conference

Description: The 2019 WIIT conference, sixth in a series that began in 1978, will focus on women's issues related to all aspects of travel and transportation. The 2014 conference, under the theme Bridging the Gap, explored and addressed the gender differences in access to transportation and mobility, responsiveness of transport systems to needs and preferences of women, transportation safety, personal security, and participation of women in decision-making and wealth creation in the transportation sector. The 2019 conference will pick up similar themes, this time guided by an evaluative framework of three lenses: insights, inclusion and impact.

Learning Objectives:
By the end of the conference, attendees will have:

- Greater Awareness and Understanding regarding women’s travel behaviors, safety and health considerations, technology, engineering, and infrastructure impacts, and policies addressing gender in transportation
- Vetted Resources and Data for measureable progress and performance of gender inclusion in transportation practices and policies
- Identified Solutions in planning and design to advance sustainable and safe mobility for women when using transportation
- Latest Policies and Standards to advance transportation equity and gender inclusion
- Exchanged Ideas with Peers from the private sector and every level of government

The Professional Development Hours (PDH) Tracking Sheet of eligible sessions and events is on the reverse side of this page.

William B. Anderson
Senior Program Officer, Transportation Research Board

Name ________________________________________ Date ______________

Signature ________________________________________________
### Professional Development Hours (PDH) Tracking Sheet

#### Wednesday, September 11, 2019

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Duration</th>
<th>PDHs</th>
<th>Attended</th>
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</thead>
<tbody>
<tr>
<td>Welcome Remarks and Opening Plenary Session - Insights: How Has Women's Travel Behavior Changed in the Past 30 Years?</td>
<td>8:30 a.m. – 10:30 a.m.</td>
<td>2 hours</td>
<td>2 PDHs</td>
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<tr>
<td>Technical Sessions: Period A</td>
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<tr>
<td>Getting There by Bike</td>
<td>10:45 a.m. – 12:15 p.m.</td>
<td>1.5 hours</td>
<td>1.5 PDHs</td>
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<tr>
<td>Better Access: Policy Strategies for Gender and Equity in Transportation Systems</td>
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<td>Advancing Women in Transportation</td>
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<td>Recognize a Pattern? Travel Behavior 101</td>
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<tr>
<td>Video Documentary: All Else Equal</td>
<td>10:45 a.m. – 12:15 a.m.</td>
<td>1.5 hours</td>
<td>1.5 PDHs</td>
<td></td>
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<tr>
<td>Plenary Session: Harassment on Public Transit</td>
<td>1:15 p.m. – 2:30 p.m.</td>
<td>1.25 hours</td>
<td>1 PDH</td>
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<tr>
<td>Poster Session and Networking Break</td>
<td>2:30 p.m. – 3:30 pm</td>
<td>1 hour</td>
<td>1 PDH</td>
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<tr>
<td>Technical Sessions: Period B</td>
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<tr>
<td>Human Trafficking</td>
<td>3:30 p.m. – 5:00 p.m.</td>
<td>1.5 hours</td>
<td>1.5 PDHs</td>
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<tr>
<td>Inclusion</td>
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<td>More Likely Harmed: Crashes, Safety, and Gender</td>
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<td>Transportation Tech: Moving Women</td>
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<tr>
<td>Photo Essay and Discussion: Women Lead the Way in Community Mobility</td>
<td>3:30 p.m. – 4:15 p.m.</td>
<td>.75 hours</td>
<td>.5 PDHs</td>
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<tr>
<td>Marquee Reception and Dinner: Leadership at all Levels: Insight, Inclusion, and Impact</td>
<td>5:30 p.m. – 9:00 p.m.</td>
<td>3.5 hours</td>
<td>1.5 hours</td>
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**Total hours:**

#### Thursday, September 12, 2019

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Duration</th>
<th>PDHs</th>
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<tbody>
<tr>
<td>Plenary Session: Practical Strategies Organizations Can Use to Support the Advancement of Women in the Transportation Industry</td>
<td>8:30 a.m. – 10:00 a.m.</td>
<td>1.5 hours</td>
<td>1.5 PDHs</td>
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<tr>
<td>Technical Sessions: Period C</td>
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<tr>
<td>Women in Motion Initiative</td>
<td>10:30 a.m. – Noon</td>
<td>1.5 hours</td>
<td>1.5 PDHs</td>
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<tr>
<td>Mom and Her Munchkins on the Move</td>
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<tr>
<td>Perceptions and Realities on Women's Safety on Transit</td>
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<tr>
<td>By Bike, By Car, By Bus: Women Commuting</td>
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<tr>
<td>Moving Women to More Opportunities: Developing Our Workforce</td>
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<tr>
<td>Plenary Session: Active Transportation: The Forces Shaping Women's Travel Decisions</td>
<td>1:00 p.m. – 2:30 p.m.</td>
<td>1.5 hours</td>
<td>1.5 PDH</td>
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<tr>
<td>Poster Session and Networking Break</td>
<td>2:30 p.m. – 3:30 p.m</td>
<td>1 hour</td>
<td>1 PDH</td>
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<tr>
<td>Technical Sessions: Period D</td>
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<tr>
<td>Framing the Future for Women in Transport through Collaborative Research</td>
<td>3:30 p.m. – 5:00 p.m.</td>
<td>1.5 hours</td>
<td>1.5 PDHs</td>
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<tr>
<td>Analyzing the Patterns: Gendered Differences in Travel Behavior</td>
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<tr>
<td>Inequitable Effects: Access, Mobility, and Gender</td>
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<tr>
<td>Priority One: Global Challenges for Women’s Safety and Security on Transit</td>
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<tr>
<td>Hopes in New Technologies</td>
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</table>

**Total hours:**

#### Friday, September 13, 2019

<table>
<thead>
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<th>Time</th>
<th>Duration</th>
<th>PDHs</th>
<th>Attended</th>
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<tbody>
<tr>
<td>Plenary Session: Impacting Policy: Crossing the Aisle and Threading the Needle</td>
<td>8:30 a.m. – 10:00 a.m.</td>
<td>1.5 hours</td>
<td>1.5 PDHs</td>
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<tr>
<td>Onward from WiT 2019: Emerging Leaders Framing the Future for Women</td>
<td>10:30 a.m. – Noon</td>
<td>1.5 hours</td>
<td>1.5 PDHs</td>
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<tr>
<td>Conference Conclusion and Working Lunch</td>
<td>Noon – 1:30 p.m.</td>
<td>1.5 hours</td>
<td>1.5 PDHs</td>
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</tbody>
</table>

**Total hours:**
The 13th National Conference on Transportation Asset Management (TAM) provides an opportunity for all practitioners involved in their agency’s asset management initiative to build core competencies and generate new ideas.

- Looking for both practical and innovative presentations.
- Selected abstracts will be featured in either poster or technical podium sessions.
- Presenters will be required to register and attend the conference to be included in the final program.

**Presentation tracks and crosscutting issues:**

- Track 1: Implementation
- Track 2: Data Governance/Tools
- Track 3: Managing Risk
- Track 4: Partners and Peers
- Track 5: Sustaining Asset Management in your Organization
- Crosscutting Issue 1: Transit
- Crosscutting Issue 2: Resilience
Thank You Patrons

DIAMOND

Uber

GOLD

CM²

Metro

SILVER

AAPA

National Center for Sustainable Transportation

lyft

Ford

MTI

METROPOLITAN TRANSPORTATION COMMISSION

UCI

Institute of Transportation Studies

BRONZE

AASHTO

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TRANSPORTATION RESEARCH BOARD