

Infrastructure Investment for Sustainable Growth

The Transportation – Land Use – Environment Connection



At Lake Arrowhead

WELCOME

WE BEGIN

AT 1:30 PM

UCLA

Institute of Transportation Studies

Infrastructure Investment for Sustainable Growth



Brian D. Taylor

Professor and Chair of Urban Planning
Director, Institute of Transportation Studies

Symposium Co-Chair

UCLA

Institute of Transportation Studies



It's our 20th Anniversary!



...depending on how you count...

0. 1989

1. 1991

2. 1992

3. 1993

4. 1994

5. 1995

6. 1996

7. 1997

8. 1998

9. 1999

10. 2000

11. 2001

12. 2002

13. 2003

14. 2004

15. 2005

16. 2006

17. 2007

18. 2008

19. 2009

20. 2010

20 Takes on the Transportation – Land Use – Environment Connection

- **1991:** *Overview of Strategies for Making Connections between Transportation, Land Use, and Air Quality*
- **1992:** *The Role of Pricing and Market-Based Strategies*
- **1993:** *The Role of Land Use Strategies for Improving Transportation and Air Quality*
- **1994:** *Taking Strategies from Concept to Adoption to Implementation*

20 Takes on the Transportation – Land Use – Environment Connection

- **1995:** *Putting Advanced Technologies to Work: Promises, Prospects, and Policy Issues*
- **1996:** *ISTEA Reauthorization: Will It Refine, Redefine, or Forge New Policy Linkages?*
- **1997:** *Transportation and the Economy*
- **1998:** *Financing the Future*
- **1999:** *Inter-Regional Travel and Local Development*

20 Takes on the Transportation – Land Use – Environment Connection

- **2000:** *Growth and the Quality of Life*
- **2001:** *Redefining, Reevaluating, and Reinventing Transit*
- **2002:** *Tackling Traffic Congestion*
- **2003:** *Finance: The Critical Link*
- **2004:** *Linking Goods Movement to Economic Prosperity and Environmental Quality*

20 Takes on the Transportation – Land Use – Environment Connection

- **2005:** *Healthy Regions, Healthy People*
- **2006:** *Global Energy and Climate Change*
- **2007:** *Planning for Growth: Demographics, Employment, Housing, and Resources*
- **2008:** *The Future of Cities and Travel*
- **2009:** *Economic Crisis as Opportunity for Reform*

20 Takes on the Transportation – Land Use – Environment Connection

- **2010:** *Infrastructure
Investment for Sustainable
Growth*

A Unique Enterprise

- Symposia supported by better than 50 different organizations over the years
 - Financially, logistically, and intellectually
 - 36 organizations this year alone

Five Arrowhead Sponsors in 2010

- Orange County Transportation Authority
- Southern California Association of Governments
- Southern California Edison
- The UCLA Ralph & Goldy Lewis Center for Regional Policy Studies
- University of California Transportation Center

19 Arrowhead Co-Sponsors in 2010

- Automobile Club of Southern California
- Bay Area Air Quality Management District
- California Air Resources Board
- California Energy Commission
- Federal Highway Administration
- Federal Transit Administration
- Los Angeles County Metropolitan Transportation Authority
- Los Angeles World Airports
- Majestic Realty
- Metropolitan Transportation Commission
- Port of Long Beach

19 Arrowhead Co-Sponsors in 2010

- Port of Oakland
- Sacramento Area Council of Governments
- San Bernardino Associated Governments
- San Francisco County Transportation Authority
- South Coast Air Quality Management District
- Southern California Gas Company
- Urban Land Use and Transportation Center
- U.S. Environmental Protection Agency

12 Arrowhead Cooperating Organizations in 2010

- California Department of Transportation
- California State Polytechnic University, Pomona
- Coalition for Clean Air
- CSUSB Leonard Transportation Center
- Mineta Transportation Institute
- The RAND Corporation
- San Diego Association of Governments
- UC Irvine School of Social Ecology
- UC Riverside, Bourns College of Engineering CE-CERT
- UCLA School of Public Affairs
- Union Pacific Railroad
- Western Riverside Council of Governments



A Unique Enterprise

- An even mix of researchers and practitioners
 - This year speakers from the world of practice slightly outnumber those who focus on research
 - Many of the best and brightest from around California and the world
 - Foster two-way communication in a tradition of civility

A Unique Enterprise

- The theme, sessions, and then presentations are crafted as a whole
 - Speakers are then recruited to speak on the desired topics

A Unique Enterprise

- The theme, sessions, and then presentations are crafted as a whole
 - Speakers are then recruited to speak on the desired topics
- The speakers and the audience are individually selected and invited
 - Audience participation is an important part of the program

A Unique Enterprise

- Steering committee members – representing a wide array of organizations and viewpoints – meet three times each year to help us craft the program

A Unique Enterprise

- Steering committee members – representing a wide array of organizations and viewpoints – meet three times each year to help us craft the program
- The programs have been designed and led by a remarkably small cadre of researchers and educators at UCLA

Arrowhead Program Designers

- **UCLA Extension Public Policy Program**
 - **LeRoy Graymer**
 - **Joanne Freilich**
 - **Catherine Showalter**

Arrowhead Program Designers

- **UCLA Extension Public Policy Program**
 - **LeRoy Graymer** (1991-2001, 2004)
 - **Joanne Freilich** (1991-2003)
 - **Catherine Showalter** (2005-)

Arrowhead Program Designers

- **UCLA Extension Public Policy Program**
 - LeRoy Graymer
 - Joanne Freilich
 - Catherine Showalter

- **UCLA School of Public Affairs**
 - Martin Wachs
 - Brian Taylor
 - Allison Yoh

Arrowhead Program Designers

- **UCLA Extension Public Policy Program**
 - LeRoy Graymer
 - Joanne Freilich
 - Catherine Showalter

- **UCLA School of Public Affairs**
 - **Martin Wachs** (1991-1996)
 - **Brian Taylor** (1997-)
 - **Allison Yoh** (2009-)

This year's program...

- Topical
- Critical
- Unique

Unique

- Combines perhaps the four most common – *and vaguely defined* – terms in the policy/planning lexicon

Unique

- Combines perhaps the four most common – *and vaguely defined* – terms in the policy/planning lexicon
 - “Infrastructure”
 - “Investment”
 - [for]
 - “Sustainable”
 - “Growth”

Unique

- Combines perhaps the four most common – *and vaguely defined* – terms in the policy/planning lexicon
 - “Infrastructure”
 - “Investment”
 - [for]
 - “Sustainable”
 - “Growth”
- Terms we can all come together and disagree about

A measure of programmatic success...

If we decamp on Tuesday with a better understanding of what *infrastructure*, *investment*, *sustainable*, and *growth* collectively mean for our future

What's ahead?



Agenda: *This Afternoon*

- **SEEKING SUSTAINABLE INFRASTRUCTURE FINANCE**

Agenda: *This Afternoon*

- **SEEKING SUSTAINABLE INFRASTRUCTURE FINANCE**
 - **Evaluating the economic and environmental sustainability of large-scale infrastructure projects**
 - *Jan Whittington*, University of Washington

Agenda: *This Afternoon*

- **SEEKING SUSTAINABLE INFRASTRUCTURE FINANCE**
 - Evaluating the economic and environmental sustainability of large-scale infrastructure projects
 - *Jan Whittington*, University of Washington
 - **An infrastructure bank and Villaraigosa's 30/10 plan**
 - *Denny Zane*, Move LA

Agenda: *This Afternoon*

- **SEEKING SUSTAINABLE INFRASTRUCTURE FINANCE**
 - Evaluating the economic and environmental sustainability of large-scale infrastructure projects
 - *Jan Whittington*, University of Washington
 - An infrastructure bank and Villaraigosa's 30/10 plan
 - *Denny Zane*, Move LA
 - **Public-private partnerships: a New Deal for infrastructure management in the 21st century?**
 - *Kome Ajise*, Caltrans

Agenda: *This Afternoon*

- **SEEKING SUSTAINABLE INFRASTRUCTURE FINANCE**

- Evaluating the economic and environmental sustainability of large-scale infrastructure projects
 - *Jan Whittington*, University of Washington
- An infrastructure bank and Villaraigosa's 30/10 plan
 - *Denny Zane*, Move LA
- Public-private partnerships: a New Deal for infrastructure management in the 21st century?
 - *Kome Ajise*, Caltrans
- **Federal transportation reauthorization: prospects and pitfalls for restructuring funding to support sustainable investment**
 - *Susan J. Binder*, Cambridge Systematics

Agenda: *This Evening*

- **OPERATIONALIZING “LIVEABLE” AND SUSTAINABLE INFRASTRUCTURE: FROM CONCEPT TO PRACTICE**

Agenda: *This Evening*

- **OPERATIONALIZING “LIVEABLE” AND SUSTAINABLE INFRASTRUCTURE: FROM CONCEPT TO PRACTICE**
 - **Keynote Speaker**
 - *Heather Fargo*, California Natural Resources Agency

Agenda: *This Evening*

- **OPERATIONALIZING “LIVEABLE” AND SUSTAINABLE INFRASTRUCTURE: FROM CONCEPT TO PRACTICE**

- **Keynote Speaker**

- *Heather Fargo*, California Natural Resources Agency

- **Panelists**

- *Julia Lester*, ENVIRON International Corporation
- *Randall Lewis*, Lewis Operating Corporation
- *Katherine Perez*, Urban Land Institute
- *Alan E. Pisarski*, Independent Consultant

Agenda: *Tomorrow Morning*

- **GOING GREEN: PUBLIC AND PRIVATE SECTOR EFFORTS TO RE-MAKE GOODS MOVEMENT**

Agenda: *Tomorrow Morning*

- **GOING GREEN: PUBLIC AND PRIVATE SECTOR EFFORTS TO RE-MAKE GOODS MOVEMENT**
 - Tradeoffs in multimodal handling of goods: balancing the environment and economics
 - *John Husing*, Economics & Politics, Inc.

Agenda: *Tomorrow Morning*

- **GOING GREEN: PUBLIC AND PRIVATE SECTOR EFFORTS TO RE-MAKE GOODS MOVEMENT**
 - Tradeoffs in multimodal handling of goods: balancing the environment and economics
 - *John Husing*, Economics & Politics, Inc.
 - **Greening our trade corridors: goods movement and green ports in California**
 - *S. David Freeman*, former president of the LA Harbor Commission

Agenda: *Tomorrow Morning*

- **GOING GREEN: PUBLIC AND PRIVATE SECTOR EFFORTS TO RE-MAKE GOODS MOVEMENT**
 - Tradeoffs in multimodal handling of goods: balancing the environment and economics
 - *John Husing*, Economics & Politics, Inc.
 - Greening our trade corridors: goods movement and green ports in California
 - *S. David Freeman*, former president of the LA Harbor Commission
 - **Mitigating the negative effects of capacity improvements: environmental justice and infrastructure**
 - *Thomas O'Brien*, Cal State Long Beach

Agenda: *Tomorrow, Late Morning*

- **MANAGING THE GREEN ROAD INFRASTRUCTURE IN THE YEARS AHEAD**

Agenda: *Tomorrow, Late Morning*

- **MANAGING THE GREEN ROAD INFRASTRUCTURE IN THE YEARS AHEAD**
 - **Environmental assessment of pavement alternatives: decision-making in light of current knowledge and unresolved questions**
 - *John Harvey*, UC Davis

Agenda: *Tomorrow, Late Morning*

- **MANAGING THE GREEN ROAD INFRASTRUCTURE IN THE YEARS AHEAD**
 - Environmental assessment of pavement alternatives: decision-making in light of current knowledge and unresolved questions
 - *John Harvey*, UC Davis
 - **Managing terminal facilities (i.e. parking) as infrastructure**
 - *Richard Willson*, Cal Poly Pomona

Agenda: *Tomorrow, Late Morning*

- **MANAGING THE GREEN ROAD INFRASTRUCTURE IN THE YEARS AHEAD**
 - Environmental assessment of pavement alternatives: decision-making in light of current knowledge and unresolved questions
 - *John Harvey*, UC Davis
 - Managing terminal facilities (i.e. parking) as infrastructure
 - *Richard Willson*, Cal Poly Pomona
 - **Sustainable Transportation Access Rating System (STARS): a performance-based system to integrate economic & environmental sustainability**
 - *Peter Hurley*, North American Sustainable Transportation Council

Agenda: *Tomorrow Afternoon*

- **TRANSIT INFRASTRUCTURE INVESTMENT**

Agenda: *Tomorrow Afternoon*

- **TRANSIT INFRASTRUCTURE INVESTMENT**
 - **Assessing the financial and operational sustainability of public transit in the U.S.: Are we getting the most transit bang from our subsidy buck?**
 - *Brian Taylor, UCLA*

Agenda: *Tomorrow Afternoon*

- **TRANSIT INFRASTRUCTURE INVESTMENT**

- Assessing the financial and operational sustainability of public transit in the U.S.: Are we getting the most transit bang from our subsidy buck?
 - *Brian Taylor*, UCLA
- **The transit capacity challenges to “green” policy mandates in the years ahead**
 - *Duncan Watry*, BART

Agenda: *Tomorrow Afternoon*

- **TRANSIT INFRASTRUCTURE INVESTMENT**

- Assessing the financial and operational sustainability of public transit in the U.S.: Are we getting the most transit bang from our subsidy buck?
 - *Brian Taylor*, UCLA
- The transit capacity challenges to “green” policy mandates in the years ahead
 - *Duncan Watry*, BART
- **Challenges to and opportunities for sustainable streams of operating support for public transit**
 - *Carl Sedoryk*, Monterey-Salinas Transit

Agenda: *Tomorrow Evening*

- **FULL SPEED AHEAD? EVALUATING OUR SUBSTANTIAL COMMITMENTS TO HIGH-SPEED RAIL IN CALIFORNIA AND THE U.S.**

Agenda: *Tomorrow Evening*

- **FULL SPEED AHEAD? EVALUATING OUR SUBSTANTIAL COMMITMENTS TO HIGH-SPEED RAIL IN CALIFORNIA AND THE U.S.**
 - **Laying the tracks: an overview and status report on high speed rail development in California**
 - ***Rod Diridon***, California High Speed Rail Authority; Mineta Transportation Institute

Agenda: *Tomorrow Evening*

- **FULL SPEED AHEAD? EVALUATING OUR SUBSTANTIAL COMMITMENTS TO HIGH-SPEED RAIL IN CALIFORNIA AND THE U.S.**
 - Laying the tracks: an overview and status report on high speed rail development in California
 - *Rod Diridon*, California High Speed Rail Authority; Mineta Transportation Institute
 - **Forecasting the cost, benefits, and use of HSR in the years ahead**
 - *Samer Madanat*, UC Berkeley

Agenda: *Tomorrow Evening*

- **FULL SPEED AHEAD? EVALUATING OUR SUBSTANTIAL COMMITMENTS TO HIGH-SPEED RAIL IN CALIFORNIA AND THE U.S.**
 - Laying the tracks: an overview and status report on high speed rail development in California
 - *Rod Diridon*, California High Speed Rail Authority; Mineta Transportation Institute
 - Forecasting the cost, benefits, and use of HSR in the years ahead
 - *Samer Madanat*, UC Berkeley
 - **Going green? High-speed rail investments in the U.S. as an energy and environmental policy strategy**
 - *Anthony Perl*, Simon Fraser University

Agenda: *Tomorrow Evening*

- **FULL SPEED AHEAD? EVALUATING OUR SUBSTANTIAL COMMITMENTS TO HIGH-SPEED RAIL IN CALIFORNIA AND THE U.S.**
 - Laying the tracks: an overview and status report on high speed rail development in California
 - *Rod Diridon*, California High Speed Rail Authority; Mineta Transportation Institute
 - Forecasting the cost, benefits, and use of HSR in the years ahead
 - *Samer Madanat*, UC Berkeley
 - Going green? High-speed rail investments in the U.S. as an energy and environmental policy strategy
 - *Anthony Perl*, Simon Fraser University
 - Thinking about HSR investment as an economic development strategy
 - *David Levinson*, University of Minnesota

Agenda: *Tuesday Morning, Early*

- **BREAKFAST SESSION “SMALL TABLE”
DISCUSSIONS**
 - Everyone is invited to participate

Agenda: *Tuesday Morning*

- **BUILDING TRUST AND CONSENSUS FOR CHANGE:
POLITICAL COMMUNICATION AND THE
CHALLENGES OF CREATING ROOM FOR FAILURE**

Agenda: *Tuesday Morning*

- **BUILDING TRUST AND CONSENSUS FOR CHANGE: POLITICAL COMMUNICATION AND THE CHALLENGES OF CREATING ROOM FOR FAILURE**
 - Interlocutor
 - *Carol Whiteside*, California Strategies, LLC

Agenda: *Tuesday Morning*

- **BUILDING TRUST AND CONSENSUS FOR CHANGE: POLITICAL COMMUNICATION AND THE CHALLENGES OF CREATING ROOM FOR FAILURE**
 - **Interlocutor**
 - *Carol Whiteside*, California Strategies, LLC
 - **Featured speaker**
 - *Alan Lowenthal*, California State Senator

Agenda: *Tuesday Morning*

- **BUILDING TRUST AND CONSENSUS FOR CHANGE: POLITICAL COMMUNICATION AND THE CHALLENGES OF CREATING ROOM FOR FAILURE**
 - Interlocutor
 - *Carol Whiteside*, California Strategies, LLC
 - Featured speaker
 - *Alan Lowenthal*, California State Senator
 - **Reports from moderators of the breakfast discussions**
 - *LeRoy Graymer*, UCLA Extension Public Policy Program
 - *Jolene Hayes*, Port of Long Beach
 - *Leslie Rogers*, Federal Transit Administration
 - *Joan Sollenberger*, UC Davis

Agenda: *Closing Discussion*

- **ARROWHEAD LESSONS FROM THE PAST TWO DAYS AND LAST TWO DECADES**

Agenda: *Closing Discussion*

- **ARROWHEAD LESSONS FROM THE PAST TWO DAYS AND LAST TWO DECADES**
 - **Discussants**
 - ***Dave Calkins***, Sierra Nevada Air Quality Group
 - ***Genevieve Giuliano***, USC
 - ***Hasan Ikhrata***, Southern California Association of Governments

Circling back to this session...



This session's moderator

- Allison Yoh
 - Associate Director, UCLA Lewis Center
 - Associate Director, UCLA Institute of Transportation Studies

Agenda: *This session*

- **TRANSPORTATION INFRASTRUCTURE AND SUSTAINABILITY**

Agenda: *This session*

- **TRANSPORTATION INFRASTRUCTURE AND SUSTAINABILITY**
 - **Transportation policy, environmental quality, and sustainability: looking back, looking forward**
 - *Martin Wachs*, Director of the Transportation, Space and Technology Program, RAND Corporation

Agenda: *This session*

- **TRANSPORTATION INFRASTRUCTURE AND SUSTAINABILITY**
 - Transportation policy, environmental quality, and sustainability: looking back, looking forward
 - *Martin Wachs*, Director of the Transportation, Space and Technology Program, RAND Corporation
 - **The state of transportation infrastructure: the challenges of rebuilding America**
 - *Sue McNeil*, Professor, Department of Civil and Environmental Engineering, University of Delaware

Agenda: *This session*

- **TRANSPORTATION INFRASTRUCTURE AND SUSTAINABILITY**
 - **Transportation policy, environmental quality, and sustainability: looking back, looking forward**
 - *Martin Wachs*, Director of the Transportation, Space and Technology Program, RAND Corporation
 - **The state of transportation infrastructure: the challenges of rebuilding America**
 - *Sue McNeil*, Professor, Department of Civil and Environmental Engineering, University of Delaware
 - **Public policies to better manage the supply of and demand for infrastructure**
 - *JayEtta Hecker*, Director of Transportation Advocacy, Bipartisan Policy Center

Infrastructure Investment for Sustainable Growth

The Transportation – Land Use – Environment Connection



UCLA
Conference Center

*PLEASE WELCOME
OUR FIRST SPEAKER:*

MARTIN WACHS

At Lake Arrowhead

UCLA
Institute of Transportation Studies