



Western Regional Science Association Program

44th Annual Meeting of the Western Regional Science Association Hyatt Regency Islandia ~ San Diego, California ~ February 23–26, 2005

Greetings! Welcome to San Diego, to the Hyatt Regency Islandia, and to WRSA's 44th Annual Meeting.

There may have been some changes since you last checked the Preliminary Program on the Association's website. So please check the timing as well as the locations of the sessions in which you are involved or that you wish to attend.

The Program Participant Locator, found on Pages 15–18, should help you find when and where you and others are scheduled.

The hotel map on Page 20 shows the location of conference events. The box on Page 2 contains information about the format of the sessions.

This year's Annual Meeting includes a number of special features. The conference will formally open on Wednesday afternoon, at 4:00 PM, in the Mission Ballroom with a plenary session about the San Diego region economy. The traditional Welcoming Reception will be held immediately following the question period in Regency C. All full-conference registrants and those for whom a Banquet and Receptions ticket packet have been purchased may use the GREEN tickets for their first drinks from the bar. Drinks will, in addition, be available on a cash-bar basis. Everybody – all accompanying persons – are very much welcome to attend the Opening Session and Welcoming Reception!

The Annual Banquet Luncheon on Friday at 12:15 PM in the Regency Pavilion will feature the presentation ceremonies for the Springer-Verlag and Tiebout Prizes, as well as Lee Huskey's Presidential Address. Please bring your GOLD ticket to be seated. Accompanying persons attending the Luncheon must have purchased tickets to attend this event.

On Friday evening beginning at 5:30 PM, Lee Huskey will host the President's Reception. It will feature some nice appetizers made possible by the generous support of the College of Business and Public Policy, University of Alaska, Anchorage, and the Alaska Council on Economic Education. Again, everyone is welcome at this function – use the BLUE tickets for first drinks.

File copies of the papers being presented are available for perusal at our registration table. Extra blank transparencies and markers are also available. Throughout the duration of the conference, University of Arizona graduate students will be floating between sessions to assist with A/V setup and room lighting.

Best wishes for a productive and stimulating conference, a restful stay at the Hyatt Regency Islandia, and a memorable visit to San Diego.



Wednesday, February 23

- **8:00 – 10:00 AM, RSAI Council “Breakfast Study Session”** (By Invitation Only; Convenor: Robert J. Stimson, RSAI President; Hotel Coffee Shop)
- **10:00 AM (first tee times) through Lunch, WRSA Annual Golf Tournament** (Singing Hills Country Club; Organizer: Bob Formaini)
- **2:30 – 6:00 PM, Registration** (Mission Foyer)
- **4:00 – 6:45 PM, Opening Session and Welcoming Reception** (Mission Ballroom / Regency C)



Wednesday, 4:00 – 6:45 PM **Opening Session and Welcoming Reception** **Mission Ballroom**

*For All Meeting Participants and Accompanying Persons
Everyone Welcome!*

Chair: Sergio Rey, San Diego State Univ., USA

San Diego Regional Prosperity Strategy
Marney COX, Chief Economist,
San Diego Association of Governments

Welcoming Reception Follows Immediately in Regency C



Thursday, February 24

- **7:30 AM – 12:30 PM, Registration** (Mission Foyer)
- **8:00 or 8:45 AM – 12:15 PM, Six Concurrent Paper Sessions:**
 - 1A Knowledge, Social Capital, and Networks (Mission A)
 - 1B Location Patterns in the Service Sectors (Mission B)
 - 1C Regional Economies and Population Redistribution (Mission C)
 - 1D Tourism and Recreation (Islands A)
 - 1E Resources, Planning, and Dispute Resolution (Garden C)
 - 1F Emerging Issues in Transportation (Garden D)
- **8:00 AM – 12:15 PM, NE-1011 Business Meeting** (Islands B)
- **10:15–10:45 AM, Coffee Break** (Mission Patio)
- **12:15 – 1:45 PM, Lunch Break** (On your own this day)
- **1:30 – 5:30 PM, Registration Continues** (Mission Foyer)
- **1:45 – 5:15 or 6:00 PM, Seven Concurrent Paper Sessions:**
 - 2A NE-1011/WRSA Joint Session: Rural Labor Markets and Poverty (Mission A)
 - 2B Urban Development and Structure (Mission B)
 - 2C Clustering, Localization, and Specialization (Mission C)
 - 2D Innovation and Regional Growth (Islands A)
 - 2E Transportation Analysis, I (Garden C)
 - 2F Spatial Demography, I (Garden D)
 - 2G Regional Infrastructure (Islands B)
- **3:15 – 3:45 PM, Refreshment Break** (Mission Patio)
- **3:45 – 5:30 PM, WRSa Board Meeting** (Marlin Club; By Invitation Only)

Session Format and Etiquette

Per WRSa custom, each paper is given 45 full minutes of Program time, inclusive of discussion. Authors should plan on presentations of approximately 25–30 minutes. Discussants should prepare about 5–10 minutes of remarks, allowing at least 10 minutes for questions from, and open discussion with, session attendees.

Please arrive at your session 10 minutes early to make A/V preparations. As a courtesy to the presenters, all participants are asked to stay for the entire session.

Our Conference Venue:
Hyatt Regency Islandia
1441 Quivira Road
San Diego, California 92109-7898 USA
Phone: 619-224-1234



Thursday, 8:45 – 11:30 AM

Paper Session 1A ~ Mission A

Knowledge, Social Capital, and Networks

Chair: Roger BOLTON, Williams College,
 Williamstown, MA, USA

8:45–9:30

The Knowledge Network and Learning in a Competitive Environment: A Regional Perspective

HiroYuki SHIBUSAWA, Toyohashi Univ. of Technology, Japan
 Kingsley E. HAYNES and Lei DING, George Mason Univ.,
 Fairfax, USA, and Yoshinobu KUMATA, Chiba Commerce Univ.,
 Japan

Discussant: Frans BOEKEMA, Tilburg Univ., The Netherlands

9:30–10:15

Social Capital of a Knowledge-Intense Industry: A Comparison of the Biotech Industry in Sweden, California and Japan

Hans WESTLUND, Swedish Institute for Growth Policy Studies,
 Östersund, Sweden

Discussant: Mark I. WILSON, Michigan State Univ., East
 Lansing, USA

10:15–10:45, Coffee Break

10:45–11:30

The Role of Location and Regional Networks for Biotechnology Firms in Israel

Dan KAUFMAN and Dafna SCHWARTZ, Ben Gurion Univ.,
 Amnon FRENKEL and Daniel SHEFER, Israel Institute of
 Technology, Haifa

Discussant: Ulla KOTONEN, Lappeenranta Univ., Finland



Thursday, 8:45 AM – 12:15 PM

Paper Session 1B ~ Mission B

Location Patterns in the Service Sectors

Chair: Michael C. CARROLL,
 Bowling Green State Univ., OH, USA

8:45–9:30

New Lines? The Growth and Sustainability of the Call Centre Industry: Evidence from Wales

Gillian BRISTOW and Max MUNDAY, Cardiff Univ., and Peter
 GRIPAPOS, Plymouth Business School, Plymouth, UK

Discussant: Peter L. STENBERG, U.S. Dept. of Agriculture,
 Economic Research Service, Washington, DC, USA

9:30–10:15

High-Order Services and Spatial Change in the Central and Eastern European Countries

Lise BOURDEAU-LEPAGE, Université de Bourgogne, France

Discussant: Julie ARTHUR, Charles Sturt Univ., Bathurst,
 New South Wales, Australia

10:15–10:45, Coffee Break

10:45–11:30

Structural Changes in U.S. Commercial Banking: A Regional Analysis

Audrey E. CLARKE, George Mason Univ., Fairfax, VA, Brian
 HOLLY, U.S. Census Bureau, Washington, D.C., USA, and
 Alistair ROBSON, Univ. Queensland, Brisbane, Australia

Discussant: Terry L. CLOWER, Univ. North Texas, Denton,
 USA

11:30–12:15

Location of Foreign Firms' R&D Activities in Japan

Rolf D. SCHLUNZE, Otomon Gakuin Univ., Osaka, Japan
 Discussant: Jean-Marie HURIOT, Université de Bourgogne,
 France



Thursday, 8:45 AM– 12:15 PM

Paper Session 1C ~ Mission C

Regional Economies and Population Redistribution

Chair: Arthur GETIS, San Diego State Univ., USA

8:45–9:30

The Effect of Urbanization on Labor Turnover

Miles M. FINNEY, California State Univ., Los Angeles, and Janet E. KOHLHASE, Univ. Houston, TX, USA

Discussant: Jack W. OSMAN, San Francisco State Univ., USA

9:30–10:15

Is Growth Important for Migration and Is Migration Important for Growth? Some Evidence for Norwegian and Swedish Counties, 1980–2000

Olle WESTERLUND, Univ. Umeå, Sweden, and Stein ØSTBYE, Univ. Tromsø, Norway

Discussant: Timothy D. HOGAN, Arizona State Univ., Tempe, USA

10:15–10:45, Coffee Break

10:45–11:30

Preferences over Absolute and Relative Income: Evidence from Internal Migrants

Todd SORENSEN and Ron WHISLER, Univ. Arizona, Tucson, USA

Discussant: JiYoung PARK, Univ. Southern California, Los Angeles, USA

11:30–12:15

Population Growth in European Cities: Weather Matters – But Only Nationally

Paul CHESHIRE, London School of Economics, UK, and Stefano MAGRINI, Univ. Venice, Italy

Discussant: Simonetta LONGHI, Free Univ., Amsterdam, The Netherlands



Thursday, 8:45 AM – 12:15 PM

Paper Session 1D ~ Islands A

Tourism and Recreation, I

Chair: Y.H. FAN, National Taiwan Univ., Taipei

8:45–9:30

World's Fairs as a Strategy for Large-Scale Urban Redevelopment

Laura HUNTOON, Univ. Arizona, Tucson, USA

Discussant: Robert G. FLETCHER, California State Univ., Bakersfield, USA

9:30–10:15

Marine Conservation Educational Program: A Cross Cultural Comparison between Japanese and Western Visitors at Hanauma Bay

Juanita C. LIU and Maki HIROE, Univ. Hawaii, Manoa, USA

Discussant: Joseph E. McCLURE, McClure Consulting, LLC, Phoenix, AZ, USA

10:15–10:45, Coffee Break

10:45–11:30

The Social Costs of Gambling Addiction and the Influence of Comorbidity

R. Keith SCHWER, William N. THOMPSON, and Jason MAY, Univ. Nevada, Las Vegas, USA

Discussant: Brenda J. MOSCOVE, California State Univ., Bakersfield, USA

11:30–12:15

Sport and the Regional Economy – The Economic Character and Potential of Sporting Activity in the North East of England

Calvin JONES, Cardiff Business School, and Daniel ANDERSON, Locum Destination Consulting Ltd., Haywards Heath, West Sussex, UK

Discussant: L. Michael FARRELL, Université du Québec à Trois-Rivières, Canada



Thursday, 8:00 AM – 12:15 PM

Paper Session 1E ~ Garden C

Resources, Planning, and Dispute Resolution

Chair: Robert J. STIMSON, Univ. Queensland, Australia

8:00–8:45

The Economics of Transitions to Heat and Electricity Generation through Non-Conventional and Renewable Fuels

Thomas LOUDAT, TAL Associates, Honolulu, HI, and Prahlad KASTURI, Radford Univ., Blacksburg, VA, USA

Discussant: R. Pete PARCELLS, Whitman College, Walla Walla, WA, USA

8:45–9:30

Achieving Effective Implementation: An Evaluation of a Collaborative Land Use Planning Process

Karin H. ALBERT, Thomas I. GUNTUN, and J.C. DAY, Simon Fraser Univ., Burnaby, B.C., Canada

Discussant: Katharine L. JACOBS, Univ. Arizona, Tucson, USA

9:30–10:15

Environmental Restoration Projects in Arizona

Sharon MEGDAL, Univ. Arizona, Tucson, USA

Discussant: Phillip WATSON, Colorado State Univ., Ft. Collins, USA

10:15–10:45, Coffee Break

10:45–11:30

Theoretical and Applied Economics of Water Demand Management: All Dressed Up and Nowhere to Go

John E. KEITH, Utah State Univ., Logan, USA

Discussant: Thomas LOUDAT, TAL Associates, Honolulu, HI

11:30–12:15

Rural Regional Issues: The Cost of Conflicts and Regional Use of Rural Mediation Centers for Alternative Dispute Resolution

Eric THOR and Veronika LI, Arizona State Univ., Mesa, USA, and Danny ZACHARIAS, Univ. Kristen Satya Wacana, Indonesia

Discussant: Thomas E. VASS, Corporate Investment Center, Raleigh, North Carolina, USA

Thursday Morning Session Listings continue on Page 4...

Previous WRSA Meetings in San Diego:

- 34th ~ San Diego Princess Resort ~ 1995
- 28th ~ San Diego Princess Resort ~ 1989
- 24nd ~ Hotel Del Coronado ~ 1985
- 18th ~ Vacation Village Hotel ~ 1979
- 15th ~ Vacation Village Hotel ~ 1987
- 11th ~ Vacation Village Hotel ~ 1972
- 9th ~ Vacation Village Hotel ~ 1970
- 7th ~ Vacation Village Hotel ~ 1968



Thursday, 8:45 AM – 12:15 PM

Paper Session 1F ~ Garden D

Emerging Issues in Transportation

Chair: Christine BAE, Univ. Washington, Seattle, USA

8:45–9:30

Physically Active Travel: Environmental and Socio-Economic Correlates of Walking for Transportation or Recreation Purposes

Chanam LEE, Texas A&M Univ., College Station, and Anne Vernez MOULDON, Univ. Washington, Seattle, USA

Discussant: Donald SHOUP, Univ. California, Los Angeles, USA

9:30–10:15

Activity Purpose and the Transportation Mode of Choice of the Elderly

Sungyop KIM and Gudmundur ULFARSSON, Washington Univ., St. Louis, MO, USA

Discussant: Alison DAVIS, Univ. Nevada, Reno, USA

10:15–10:45, *Coffee Break*

10:45–11:30

The Impact of Freeway Air Pollution on Housing Prices in the Seattle Metropolitan Region

Christine BAE, Gail SANDIN, and Alon BASSOK, Univ. Washington, Seattle, and Sungyop KIM, Washington Univ., St. Louis, MO, USA

Discussant: David E. PITFIELD, Loughborough Univ., UK

11:30–12:15

Expansion of Toll Lanes or More Free Lanes: A Case Study of SR91 in Southern California

Harry W. RICHARDSON, Peter GORDON, James E. MOORE, and Sungbin CHO, Univ. Southern California, Los Angeles, USA

Discussant: Jean-Claude THILL, Univ. at Buffalo, Amherst, NY, USA



Thursday, 8:00 AM – 12:15 PM

NE-1011 Business Meeting ~ Islands B

Convenor: Joseph FRANCIS, Cornell Univ., Ithaca, NY, USA



Thursday, 1:45 – 5:15 PM

Paper Session 2A ~ Mission A

NE-1011/WRSA Joint Session:

Rural Labor Markets and Poverty

Chair: Steve COOKE, Univ. Idaho, Moscow, USA

1:45–2:30

How New Jobs Are Allocated Among Commuters, In-Migrants, and Local Residents in the 13 Southern States

Mitch RENKOW, North Carolina State Univ., Raleigh, USA

Discussant: Johan LUNDBERG, Umeå Univ., Sweden

2:30–3:15

Looking at Rural Poverty Through a Long, Narrow Lens: Lessons from the Journal of Farm Economics/American Journal of Agricultural Economics: 1919-2004

Alexander W. MARRE and Bruce A. WEBER, Oregon State Univ., Corvallis, USA

Discussant: Vera BITSCH, Michigan State Univ., E. Lansing, USA

3:15–3:45, *Refreshment Break*

3:45–4:30

The Impact on Average Wages and Income Distribution from Substituting Bad Jobs for Good Ones in the U.S. between 1978 and 1998

Steve COOKE, Univ. Idaho, Moscow, USA

Discussant: Henk FOLMER, Tilburg Univ., The Netherlands

4:30–5:15

Trickling Down: Does Local Job Growth Still Reduce Poverty?

Mindy S. CRANDALL, Oregon State Univ., Corvallis, USA

Discussant: Lawrence M. SOMMERS, Michigan State Univ., East Lansing, USA

5:15–6:00

Redefining Rural and Why It Should Revolutionize Research and Public Policy

Andrew M. ISSERMAN, Univ. Illinois, Urbana-Champaign, USA

Discussant: Bruce A. WEBER, Oregon State Univ., Corvallis, USA



Thursday, 1:45 – 6:00 PM

Paper Session 2B ~ Mission B

Urban Development and Structure

Chair: Thomas I. GUNTUN, Simon Fraser Univ., Burnaby, B.C., Canada

1:45–2:30

On Poles and Centers: Cities in the French Style

Lise BOURDEAU-LEPAGE and Jean-Marie HURIOT, Université de Bourgogne, France

Discussant: Sébastien BREAU, Univ. California, Los Angeles, USA

2:30–3:15

The Entrepreneurial City in the Global Marketplace

T.R. LAKSHMANAN and Lata CHATTERJEE, Boston Univ., USA

Discussant: Peter GORDON, Univ. Southern California, Los Angeles, USA

3:15–3:45, *Refreshment Break*

3:45–4:30

The “Città Diffusa” of the Veneto Region of Italy: Example of New Urban Development

Laura FREGOLENT, Università IUAV di Venezia, Italy

Discussant: Laura HUNTOON, Univ. Arizona, Tucson, USA

4:30–5:15

Entropy and Space

Eric J. HEIKKILA and Lingquian HU, Univ. Southern California, Los Angeles, USA

Discussant: Todd SORESENSEN, Univ. Arizona, Tucson, USA

5:15–6:00

The Greenbelt Effects on Urban Development: Infill or Leap-Frogging Development? The Case of Daegu Metropolitan Area, Korea

Jae Ik KIM and Hyun Wook CHUNG, Keimyung Univ., Daegu, Korea

Discussant: Eve HALPER, Univ. Arizona, Tucson, USA





Thursday, 1:45 – 5:15 PM

Paper Session 2C ~ Mission C

Clustering, Localization, and Specialization

Chair: John SPORING, Bureau of Economic Analysis,
Washington, DC, USA

1:45–2:30

Some Thoughts on Localization and Specialization

Gordon F. MULLIGAN and Charles SCHMIDT, Univ. Arizona,
Tucson, USA

Discussant: Daniel SHEFER, Israel Institute of Technology,
Haifa

2:30–3:15

Spatial Mobility and Geographic Concentration

Mohammad ARZAGHI, Brown Univ., Providence, RI, and James
C. DAVIS, U.S. Census Bureau, Washington, DC, USA.

Discussant: Gordon F. MULLIGAN, Univ. Arizona, Tucson,
USA

3:15–3:45, Refreshment Break

3:45–4:30

A Spatial Perspective of Industry Cluster Analysis: The Case of the Baltimore Metropolitan Region

Guang YANG, David WONG, and Roger STOUGH, George
Mason Univ., Fairfax, VA, USA

Discussant: David RIGBY, Univ. California, Los Angeles,
USA

4:30–5:15

Implementing Cluster-Based Economic Development

Michael C. CARROLL, Bowling Green State Univ., and NEIL
REID, Univ. Toledo, OH, USA

Discussant: Audrey E. CLARKE, George Mason Univ.,
Fairfax, VA, USA



Thursday, 1:45 – 5:15 PM

Paper Session 2D ~ Islands A

Innovation and Regional Growth

Chair: Magnus SJÖSTRÖM, Umeå Univ., Sweden

1:45–2:30

Regional Endogenous Growth: The Role of Leadership and Institutions

Robert J. STIMSON, Univ. Queensland, Brisbane, Australia, and
Roger R. STOUGH, George Mason Univ., Fairfax, VA, USA

Discussant: Roel RUTTEN, Tilburg Univ., The Netherlands

2:30–3:15

Innovation Diffusion Theory: 100 Years of Development

Michael SONIS, Bar Ilan Univ., Ramat-Gan, Israel

Discussant: Lawrence A. BROWN, Ohio State Univ.,
Columbus, USA

3:15–3:45, Refreshment Break

3:45–4:30

A Note on the Relation between Space and Learning

Roel RUTTEN and Frans BOEKEMA, Tilburg Univ., The
Netherlands

Discussant: Mats WILHELMSSON, Royal Institute of
Technology, Stockholm, Sweden

4:30–5:15

Regional Innovation Systems and Development Organizations, Case: South Karelia, Finland

Ulla KOTONEN, Jyky AHOLA, and Saku LAAPIO, Lappeenranta
Univ., Finland

Discussant: Donald G. FREEMAN, Sam Houston State Univ.,
Houston, TX, USA



Thursday, 1:45 – 5:15 PM

Paper Session 2E ~ Garden C

Transportation Analysis, I

Chair: James E. MOORE, Univ. Southern California, Los Angeles

1:45–2:30

GIS-Based, All Hazard Evacuation Planning at the Community Level

Edd HAUSER, Sherry M. ELMES, and Christian P.

TEMPLETON, Univ. North Carolina, Charlotte, USA

Discussant: T. John KIM, Univ. Illinois, Champaign-Urbana,
USA

2:30–3:15

Trip Making, Induced Travel Demand, and Accessibility

Jean-Claude THILL, Univ. at Buffalo, Amherst, NY, USA

Discussant: Lei ZHANG, Univ. Minnesota, Minneapolis, USA

3:15–3:45, Refreshment Break

3:45–4:30

The Impact of Market Shares of the Entry of Ryanair on a Sector: An Intervention Analysis

David E. PITFIELD, Loughborough Univ., UK

Discussant: Jon R. MILLER, Univ. Idaho, Moscow, USA

4:30–5:15

A Productivity Analysis of U.S. Regional and Major Airlines

Bijan VASIGH, Embry-Riddle Aeronautical Univ., Daytona

Beach, FL, USA

Discussant: Derek K.Y. WONG, Loughborough Univ., UK



Thursday, 1:45 – 5:15 PM

Paper Session 2F ~ Garden D

Spatial Demography, I

Chair: Janet E. KOHLHASE, Univ. Houston, TX, USA

1:45–2:30

A Meta-Analytic Assessment of the Effect of Immigration on Wages

Simonetta LONGHI and Peter NIJKAMP, Free Univ., Amsterdam,
Netherlands, and Jacques POOT, Univ. Waikato, Hamilton, New
Zealand

Discussant: Miles M. FINNEY, California State Univ., Los
Angeles, USA

2:30–3:15

Do Korean Immigrants Have Better Living Environments in the US? Determinants and Consequences of Korean Immigration to the US

SeongWoo LEE, Seoul National Univ., Korea, and JiYoung

PARK, Univ. Southern California, Los Angeles, USA

Discussant: Stein ØSTBYE, Univ. Tromsø, Norway

3:15–3:45, Refreshment Break

3:45–4:30

Housing Costs and the Geography of Family Migration Outcomes

Suzanne DAVIES WITHERS, Univ. Washington, Seattle, and
William A.V. CLARK, Univ. California, Los Angeles, USA

Discussant: Patrick TINGVALL, Stockholm School of
Economics, Sweden

4:30–5:15

Rethinking Our Understanding of Racial/Ethnic Spatial Patterning of US Cities: Columbus, Ohio MSA, 1990–2000

Lawrence A. BROWN and Su-Yeul CHUNG, Ohio State Univ.,
Columbus, USA

Discussant: Suzanne DAVIES WITHERS, Univ.
Washington, Seattle, USA

Thursday Afternoon Session Listings Continue on Page 6...



Thursday, 1:45 – 6:00 PM

Paper Session 2G ~ Islands B

Regional Infrastructure

Chair: Lars LUNDQVIST, Royal Institute of Technology,
Stockholm, Sweden

1:45–2:30

Regional Impacts of European Transport Investment and Pricing Policies

Lars LUNDQVIST, Royal Institute of Technology, Stockholm, Sweden

Discussant: Kingsley E. HAYNES, George Mason Univ.,
Fairfax, VA, USA

2:30–3:15

Asset Concentration and the Geographic Dimensions of Cascading Failure

Tony H. GRUBESIC, Univ. Cincinnati, and Alan T. MURRAY,
Ohio State Univ., Columbus, USA

Discussant: Rolf D. SCHLUNZE, Otemon Gakuin Univ.,
Osaka, Japan

3:15–3:45, Refreshment Break

3:45–4:30

Policy Implications of Ubiquitous Computing: A Case Study of the Internet in Michigan

Kenneth E. COREY and Mark I. WILSON, Michigan State Univ.,
East Lansing, USA

Discussant: Michael LUGER, Univ. North Carolina, Chapel
Hill, USA

4:30–5:15

An Investigation of Key Factors Influencing the Diffusion of Telecommunications Infrastructure in China

Lei DING, George Mason Univ., Fairfax, VA, USA

Discussant: Max MUNDAY, Cardiff Univ., Wales, UK

5:15–6:00

An Alternative Choice in Construction Type for Public Investment under Economic Growth

Yoji KUNIMITSU, National Institute for Rural Engineering, Japan

Discussant: Tony H. GRUBESIC, Univ. Cincinnati, OH USA



Thursday 3:45 – 5:30 PM

WRSA Board Meeting ~ Marlin Club

(By Invitation Only)

Convenor: David A. PLANE, Univ. Arizona, Tucson, USA

Submitting Annual Meeting Papers to: *The Annals of Regional Science*

Conference participants are invited to submit their papers to WRSA's official journal, *The Annals of Regional Science*. The coeditors would be pleased to discuss potential submissions:

T. John Kim, Department of Urban and Regional Planning, University of Illinois, 611 East Lorado Taft Drive, Champaign, IL 61820, USA; e-mail: tjohnkim@uiuc.edu

Roger R. Stough, The School of Public Policy, George Mason University, Fairfax, VA 22030-4444, USA; e-mail: rstough@gmu.edu

Börje Johansson, Jönköping International Business School, Jönköping University, P.O. Box 1026, S-55111 Jönköping, Sweden; e-mail: jobo@jibs.hj.se



Friday, February 25

■ **7:30 AM – 12:00 PM, Registration Continues** (Mission Foyer)

■ **8:00 or 8:45 AM – 12:15 PM, Seven Concurrent Paper Sessions:**

3A Papers in Honor of Art Getis (Mission A)

3B Regional Economic Modeling and Data (Mission B)

3C Mobility and Spatial Structure (Mission C)

3D Spatial Demography, II (Islands A)

3E Industrial Location and Trade (Garden C)

3F NE-1011/WRSA Joint Session: Community Network Analysis (Garden D)

3G Tourism and Recreation, II (Islands B)

■ **10:15–10:45 AM, Coffee Break** (Mission Patio)

■ **12:15 – 2:00 PM, Annual Banquet Luncheon** (Regency Pavilion; For All Meeting Registrants; Tickets Required for Accompanying Persons)

■ **2:00 – 5:30 PM, Registration Continues** (Mission Foyer)

■ **2:15 – 4:30 or 5:15 PM, Six Concurrent Paper Sessions:**

4A Urban Spatial Structure (Mission A)

4B Spatial Distribution of Growth and Economic Activity, I (Mission B)

4C Space-Time Models (Mission C)

4D Policy and Regional Evolution (Islands A)

4E Resource and Environmental Economics (Garden C)

4F Public Finance (Garden D)

Note: Due to the preceding luncheon and the reception that follows immediately afterwards, no regular refreshment break will be held this afternoon; however, brief (5-minute) mid-session breaks may be taken at the discretion of the chairs.

■ **2:15 – 5:15 PM, Panel Session 4G: The Economic Implications of Public and Private Debt in the U.S.** (Islands B)

■ **5:30 – 7:00 PM, President's Reception** (Regency Pavilion; For All Meeting Participants and Accompanying Persons – Everyone Welcome!)



Friday, 8:45 AM – 12:15 PM

Paper Session 3A ~ Mission A

Papers in Honor of Art Getis

Chair: T. John KIM, Univ. Illinois, Urbana-Champaign, USA

8:45–9:30

Territorial Competition and Cooperation in Economic Development with a Case Analysis of the Washington Metropolitan Region

Roger R. STOUGH, Rajendra G. KULKARNI, and Jean H.P. PAELINCK, George Mason Univ., Fairfax, VA, USA

Discussant: Michael LAHR, Rutgers Univ., New Brunswick, NJ, USA

9:30–10:15**Identification of Spatial Clustering of Firms in the San Diego Region**

Young-Sik KIM, San Diego State Univ., CA, USA

Discussant: Hans WESTLUND, Swedish Institute for Growth Policy Studies, Östersund, Sweden

10:15–10:45, Coffee Break**10:45–11:30****Intelligent Transportation System (ITS) Management Using Boolean Networks**

Kingsley E. HAYNES, Rajendra G. KULKARNI, Laurie A. SCHINTLER, and Roger R. STOUGH, George Mason Univ., Fairfax, VA, USA

Discussant: T.R. LAKSHMANAN, Boston Univ., USA

11:30–12:15**Spatio-Temporal Models for Network Economic Loss Analysis Under Unscheduled Events: A Conceptual Design**

John Sung LEE and T. John KIM, Univ. Illinois, Urbana-Champaign, USA

Discussant: Sungyop KIM, Washington Univ., St. Louis, MO, USA

**Friday, 8:45 AM – 12:15 PM****Paper Session 3B ~ Mission B****Regional Economic Modeling and Data**

Chair: John KORT, Bureau of Economic Analysis, Washington, DC, USA

8:45–9:30**A Park by any Other Name: National Park Designation as a Natural Experiment in Signaling**

Stephan WEILER, Federal Reserve Bank, Kansas City, MO, USA

Discussant: Paul POLZIN, Univ. Montana, Missoula, USA

9:30–10:15**Identifying Long-Run Cointegrating Relations: An Application to the Hawaii Tourism Model**

Allison ZHOU, Carl BONHAM, and Byron GANGES, Univ. Hawaii, Honolulu, USA

Discussant: Harry H. KELEJIAN, Univ. Maryland, College Park, USA

10:15–10:45, Coffee Break**10:45–11:30****On the Geographical Scope of Metropolitan Areas**

Eckhardt BODE, Institute for World Economics, Kiel, Germany

Discussant: Paul CHESHIRE, London School of Economics, UK

11:30–12:15**Further Integrating BEA's Economic Accounts: Introducing Annual Input-Output Estimates into the Gross State Product by Industry Accounts**

John SPORING, Jr., George K. DOWNEY, and John R. KORT, Bureau of Economic Analysis, Washington D.C., USA

Discussant: David HOLLAND, Washington State Univ., Pullman, USA

**Friday, 8:45 AM – 12:15 PM****Paper Session 3C ~ Mission C****Mobility and Spatial Structure**

Chair: Sharon MEGDAL, Univ. Arizona, Tucson, USA

8:45–9:30**Regional Variations in Walking for Different Purposes: The South East Queensland Quality of Life Study**

Eva LESLIE, Rod MCCREA, Ester CERIN, and Robert STIMSON, Univ. Queensland, Australia

Discussant: Chanam LEE, Texas A&M Univ., College Station, USA

9:30–10:15**Cars, Parking, People and Cities**

Michael MANVILLE and Donald SHOUP, Univ. California, Los Angeles, USA

Discussant: Qisheng PAN, Texas Southern Univ., Houston, USA

10:15–10:45, Coffee Break**10:45–11:30****Micro- and Meso-Level Commuting Patterns and Spatial Patterns of Residence and Work**

Richard MORRILL, Univ. Washington, Seattle, USA

Discussant: Bumsoo LEE, Univ. Southern California, Los Angeles, USA

11:30–12:15**Smart Growth Policy and Mobility: Has Portland's Urban Growth Boundary Affected Commuting Time?**

Myung-Jin JUN, Chung-Ang Univ., South Korea

Discussant: Gudmundur ULFARSSON, Washington Univ., St. Louis, MO, USA

**Friday, 8:45 AM – 12:15 PM****Paper Session 3D ~ Islands A****Spatial Demography, II**

Chair: Linda ANDERSSON, Univ. Umeå, Sweden

8:45–9:30**Parameter Constrained Models of Space-Time Migration Structure**

Stuart H. SWEENEY and Kevin J. KONTY, University of California, Santa Barbara, USA

Discussant: K. Bruce NEWBOLD, McMaster Univ., Hamilton, Ontario, Canada

9:30–10:15**Different Indicators of the Divorce Rate: A Cross-National Analysis**

Xiang LI, Univ. New Mexico, Albuquerque, USA

Discussant: Rachel S. FRANKLIN, Univ. Maryland, College Park, USA

10:15–10:45, Coffee Break**10:45–11:30****The Sex Composition of U.S. Immigration from Europe, 1820–1929: An Econometric Analysis**

Michael J. GREENWOOD, Univ. Colorado, Boulder, USA

Discussant: Jesús LÓPEZ-RODRIGUEZ, London School of Economics, UK

11:30–12:15**Short-Term Changes to the Canadian Immigrant Settlement System**

K. Bruce NEWBOLD, McMaster Univ., Hamilton, Ontario, Canada

Discussant: Ronald WHISLER, Univ. Arizona, Tucson, USA



Friday, 8:00 AM – 12:15 PM

Paper Session 3E ~ Garden C Industrial Location and Trade

Chair: W. Mark BROWN, Statistics Canada, Ottawa

8:00–8:45

Industrial Re-dispersion: A Synthesis of Chamberlin and Ricardo

Dao-Zhi ZENG, Kagawa Univ., Japan

Discussant: Hoje KANG, Cleveland State Univ., OH, USA

8:45–9:30

Urban Spatial Structure as Complex Systems: An Empirical Evaluation

Mukesh KUMAR, Jackson State Univ., MS, USA

Discussant: Eric J. HEIKKILA, Univ. Southern California, Los Angeles, USA

9:30–10:15

Prospects for Los Angeles in an Era of Globalization

David L. RIGBY and Sébastien BREAU, University of California, Los Angeles, USA

Discussant: Eckhardt BODE, Institute for World Economics, Kiel, Germany

10:15–10:45, Coffee Break

10:45–11:30

Impact of North American Integration on the Manufacturing Sector of Canadian Regions 1974–1999

John R. BALDWIN and W. Mark BROWN, Statistics Canada, Ottawa, Canada

Discussant: Brian HOLLY, U.S. Census Bureau, Washington, DC, USA

11:30–12:15

Infrastructure Investment and Regional Productivity of Manufacturing Industries in Mexico

Cesar M. FUENTES, Univ. Texas, El Paso, USA

Discussant: Fernando DE PAOLIS, Monterey Institute of International Studies, CA, USA



Friday, 8:45 AM – 12:15 PM

Paper Session 3F ~ Garden D NE-1011/WRSA Joint Session: Community Network Analysis

Chair: Bruce WEBER, Oregon State Univ., Corvallis, OR, USA

8:45–9:30

Network Analysis for Communities

Maureen KILKENNY, Iowa State Univ., Ames, USA

Discussant: Geoffrey J.D. HEWINGS, Univ. Illinois, Champaign-Urbana, USA

9:30–10:15

The Importance of Habermas's "Communicative Action" for Social Capital and Social Network Theory

Roger BOLTON, Williams College, Williamstown, MA, USA

Discussant: David KRAYBILL, Ohio State Univ., Columbus, USA

10:15–10:45, Coffee Break

10:45–11:30

Market, State, and Civil Society Networks and Social Capital in Iowa Communities

Jan FLORA and Cornelia BUTLER-FLORA, Iowa State Univ., Ames, USA

Discussant: Tom JOHNSON, Univ. Missouri, Columbia, USA

11:30–12:15

Keystone Sectors and Local Tax Policy: An Analysis of a Cross-Section of Small Communities

Cynthia L. ROGERS, Univ. Oklahoma, Norman, USA

Discussant: Tom HARRIS, Univ. Nevada, Reno, USA



Friday, 8:00 AM – 12:15 PM

Paper Session 3G ~ Islands B Tourism and Recreation, II

Chair: Joseph E. MCCLURE, McClure Consulting, Phoenix, AZ, USA

8:00–8:45

Tourism Development in China

Sen-dou CHANG, Univ. Hawaii, Manoa, USA

Discussant: Robert G. FLETCHER, Univ. California, Bakersfield, USA

8:45–9:30

Estimating the Economic Impact of Nature Tourists: A Study of Participants in the Potholes and Prairie Birding Festival

Nancy M. HODUR, F. Larry LEISTRITZ, and Kara L. WOLFE, North Dakota State Univ., Fargo, USA

Discussant: Antoine S. BAILLY, Univ. Geneva, Switzerland

9:30–10:15

The Alaska Cruise Industry: Recent Developments and Economic Impacts

Warren G. GILL and Jock M. MUNRO, Simon Fraser Univ., Burnaby, B.C., Canada

Discussant: Juanita C. LIU, Univ. Hawaii, Manoa, USA

10:15–10:45, Coffee Break

10:45–11:30

Economic and Fiscal Impacts of Championship Horseracing: The Case of the Breeder's Cup at Lone Star Park at Grand Prairie

Terry L. CLOWER and Bernard L. WEINSTEIN, Univ. North Texas, Denton, USA

Discussant: Calvin JONES, Cardiff Business School, Wales, UK

11:30–12:15

The Economic and Resource Use Implications of Colorado's Golf Industry

Phillip WATSON, Stephen DAVIS, and Dawn THILMANY, Colorado State Univ., Fort Collins, USA

Discussant: Denis Maillat, Université de Neuchâtel, Switzerland





Friday, 12:15 – 2:00 PM

**Annual Banquet Luncheon
Regency Pavilion**

For All Meeting Registrants; Tickets Required

Chair: Juanita C. LIU, 45th WRSA President (2004–2005)

Presentation Ceremonies:

The 10th Annual Springer-Verlag Prize

Presented by:

T. John KIM, Roger R. STOUGH, and Börje JOHANSSON,
Co-editors, *The Annals of Regional Science*
and
Katharina WETZEL-VANDAI, Springer-Verlag Publishers

The 19th Annual Charles M. Tiebout Prize

Presented by:

Roger R. STOUGH, 43rd WRSA President (2002–2003)

Presidential Address:

Limits to Growth: Remote Regions, Remote Institutions

Lee HUSKEY, Univ. Alaska, Anchorage, USA,
and 44th WRSA President (2005–2006)

Discussant: Jon R. MILLER, Univ. Idaho, Moscow, USA,
and 37th WRSA President (1996–1997)



Friday, 2:15 – 5:15 PM

**Paper Session 4A ~ Mission A
Urban Spatial Structure**

Chair: Genevieve GUILIANO, Univ. Southern California,
Los Angeles, USA

2:15–3:00

**'Edge' or 'Edgeless Cities'? Growth Patterns of US Metropolitan
Employment Centers, 1980 to 2000**

Bumsoo LEE, Univ. Southern California, Los Angeles, USA

Discussant: Janet KOHLHASE, Univ. Houston, TX, USA

3:00–3:45

Employment Subcenters in Houston: 1990 – 2000

Qisheng PAN, Texas Southern Univ., Houston, USA

Discussant: Myung-Jin JUN, Chung-Ang Univ., Korea

3:45–4:30

**Not All Sprawl: Evolution of Employment Centers in Los
Angeles, 1980 – 2000**

Genevieve GUILIANO, Christian REDFEARN, Ajay
AGARWAL, Chen LI, and Duan ZHUAN, Univ. Southern
California, Los Angeles, USA

Discussant: Frank G. MITTELBAACH, Univ. California, Los
Angeles, USA

4:30–5:15

**Neighborhood Attributes and Commuting Behavior: Travel
Times**

Peter GORDON, Bumsoo LEE, James E. MOORE, Harry W.
RICHARDSON, and Christopher WILLIAMSON, Univ. Southern
California, Los Angeles, USA

Discussant: Richard MORRILL, Univ. Washington, Seattle,
USA



Friday, 2:15 – 5:15 PM

Paper Session 4B ~ Mission B

Spatial Distribution of Growth and Economic Activity, I

Chair: Jack OSMAN, San Francisco State Univ., USA

2:15–3:00

Urban Spatial Econometrics to Analysis Local Growth in Sweden

Johan LUNDBERG, Umeå Univ., Sweden

Discussant: Arthur GETIS, San Diego State Univ., USA

3:00–3:45

**Knowledge Accessibility and Regional Economic Growth – An
Exploratory Study on Swedish Municipalities**

Charlie KARLSSON and Martin ANDERSSON, Jönköping
International Business School, Sweden

Discussant: Hiroyuki SHIBUSAWA, Toyohashi Univ. of
Technology, Japan

3:45–4:30

**Higher Education, Localization and Innovation: Evidence from
a Natural Experiment**

Roland ANDERSSON, Royal Institute of Technology, Stockholm,
John QUIGLEY, Univ. California, Berkeley, USA, and Mats
WILHELMSSON, Royal Institute of Technology, Stockholm,
Sweden

Discussant: Michael J. GREENWOOD, Univ. Colorado,
Boulder, USA

4:30–5:15

Spatial Intermediation in the Market for Educational Services

L. Michael FARRELL, Université du Québec à Trois-Rivières,
Canada

Discussant: David M. BRASINGTON, Louisiana State Univ.,
Baton Rouge, USA



Friday, 2:15 – 5:15 PM

**Paper Session 4C ~ Mission C
Space-Time Models**

Chair: Raymond J.G.M. FLORAX, Purdue Univ.,
West Lafayette, IN, USA

2:15–3:00

**A Geostatistical Framework for Linear Regression with Spatially
Correlated Areal Data**

Nicholas NAGLE, Univ. California, Santa Barbara, USA

Discussant: Jean H.P. PAELINCK, George Mason Univ.,
Fairfax, VA, USA

3:00–3:45

Prediction Efficiencies in Spatial Models with Spatial Lags

Harry H. KELEJIAN and Ingmar R. PRUCHA, Univ. Maryland,
College Park, USA

Discussant: Carl BONHAM, Univ. Hawaii, Manoa, USA

3:45–4:30

STARS: Space-Time Analysis of Regional Systems

Sergio J. REY and Mark V. JANIKAS, San Diego State Univ.,
CA, USA

Discussant: Michael SONIS, Bar Ilan Univ., Ramat-Gan, Israel

4:30–5:15

**Convergence in Per Capita GCP Across EU-NUTS2 Regions
Using Panel Data Models Extended to Spatial Autocorrelation
Effects**

Giuseppe ARBIA, Univ. G.D'Annunzio, Pescara, and Gianfranco
PIRAS, Tor Vergata Univ., Rome, Italy

Discussant: Brigitte WALDORF, Purdue Univ., West
Lafayette, IN, USA

Friday Afternoon Session Listings Continue on Page 10...



Friday, 2:15 – 5:15 PM

Paper Session 4D ~ Islands A

Policy and Regional Evolution

Chair: Mindy S. CRANDALL, Oregon State Univ.,
Corvallis, USA

2:15–3:00

Stakeholder Beliefs and Model Specification in Policy Analysis: Application to the U.S. – Mexico Maquiladora Program

Arthur L. SILVERS, Univ. Arizona, Tucson, USA

Discussant: Robert CORONADO, Federal Reserve Bank of
Dallas, El Paso, TX, USA

3:00–3:45

Approaches to Spatial Analysis of Consequences of the Recent Enlargement of the European Union

Lars Olof PERSSON and Lisa VAN WELL, Royal Institute of
Technology, and Jorg NEUBAUER, Nordic Centre for Spatial
Development, Stockholm, Sweden

Discussant: Laura FREGOLENT, Università IUAV di
Venezia, Italy

3:45–4:30

Applying the Biological Metaphor of Population Genetics to Regional Economic Evolution

Thomas VASS, Corporate Investment Center, Raleigh, North
Carolina, USA

Discussant: Roger BOLTON, Williams College,
Williamstown, MA, USA

4:30–5:15

Knowledge Capacity and Capability: The Confluence of Policy and Practice in University Regional Engagement in Rural, Regional Australia

Julie ARTHUR, Charles Sturt Univ., Bathurst, New South Wales,
and Paul COLLITS, Department of State and Regional
Development, Sydney, Australia

Discussant: Eric THOR, Arizona State Univ., Tempe, USA



Friday, 2:15 – 5:15 PM

Paper Session 4E ~ Garden C

Resource and Environmental Economics

Chair: Yoshinobu KUMATA, Chiba Univ., Japan

2:15–3:00

Population Structure, Income Inequality, and Pollution: The Environmental Kuznets Curve Revisited

Rachel S. FRANKLIN and Matthias RUTH, Univ. Maryland,
College Park, USA

Discussant: John KEITH, Utah State Univ., Logan, USA

3:00–3:45

International Fisheries Agreements: The Feasibility and Impacts of Partial Cooperation

Kim Hang Pham DO and Henk FOLMER, Tilburg Univ.,
Netherlands

Discussant: Stephan WEILER, Federal Reserve Bank, Kansas
City, MO, USA

3:45–4:30

The Potential Economic Effects of an Enhanced Renewable Portfolio Standard for Electric Utilities in New Jersey

Frank FELDER, Michael LAHR, Nancy MANTELL, and Scott
WEINER, Rutgers Univ., New Brunswick, USA

Discussant: Sharon MEGDAL, Univ. Arizona, Tucson, USA

4:30–5:15

Empowering Risk Communication in Decision Process of Public Choice to Improve Citizen Participation

Yoshinobu KUMATA, Midori MIYAZAKI, and Daigo
YOSHIDA, Chiba University of Commerce, and Toshizumi
OHTA, University of Electro-Communications, Japan.

Discussant: Matthias RUTH, Univ. Maryland, College Park,
USA



Friday, 2:15 – 5:15 PM

Paper Session 4F ~ Garden D

Public Finance

Chair: Marshall VEST, Univ. Arizona, Tucson, USA

2:15–3:00

Equalization and Saskatchewan's Resource Revenues

Gary TOMPKINS, Univ. Regina, Saskatchewan, Canada

Discussant: Richard WOBBEKIND, Univ. Colorado, Boulder,
USA

3:00–3:45

Urban and Rural Differences in Utilization of State Earned Income Tax Credit Programs: Minnesota's Experience

Donald P. HIRASUNA and Thomas F. STINSON, Univ.
Minnesota, Minneapolis, USA

Discussant: Lee A. REYNIS, Univ. New Mexico,
Albuquerque, USA

3:45–4:30

Tax Revenue Impacts of Exempting Arkansas Manufacturers from Sales Taxes on Energy: An Assessment

Gregory L. HAMILTON, Univ. Arkansas, Little Rock, USA

Discussant: Prahlad KASTURI, Radford Univ., Blacksburg,
VA, USA

4:30–5:15

Fiscal Decentralization and Regional Income Disparities: Evidence From the Colombian Experience

Jaime BONET, Edificio Banco de la Republica, Cartagena,
Colombia

Discussant: Gary TOMPKINS, Univ. Regina, Saskatchewan,
Canada



Friday, 2:15 – 5:15 PM

Panel Session 4G ~ Islands B

The Economic Implications of

Public and Private Debt in the U.S.

Chair: Robert FORMAINI, Federal Reserve Bank of Dallas, USA

Theme:

Americans are now experiencing record levels of personal debt at the same time the government is running large fiscal and trade deficits. Future pension and medical entitlements increase the future debt load considerably. Given this unprecedented debt situation, what are the implications for potential economic performance and future tax rates?

Panelists:

Terry L. CLOWER, University of North Texas, Denton, USA
Jared E. HAZLETON, University of North Texas, Denton, USA
Bernard L. WEINSTEIN, University of North Texas, Denton, USA
Robert FORMAINI, Federal Reserve Bank of Dallas, TX, USA

Everyone welcome to participate!



Friday, 5:30 – 6:45 PM

**President's Reception
Regency Pavilion**

*For All Meeting Participants and
Accompanying Persons; Everyone Welcome!*

Hosted by:
Lee HUSKEY, 44th WRSA President (2005–2006)

*Generous Financial Support for This Event Has
Been Provided by:*

**The College of Business and Public Policy,
University of Alaska, Anchorage,
and
The Alaska Council on Economic Education**



Saturday, February 26

- **7:45 AM – 12:00 PM, Registration continues** (Mission Foyer)
- **8:00 or 8:45 AM – 12:15 PM, Seven Concurrent Paper Sessions:**
 - 5A** AUBER / WRSA Joint Session: Western States' Economic Outlook (Mission A)
 - 5B** Remote Regions, I: Surprises and Policy Changes in Northern Economies (Mission B)
 - 5C** Transportation Analysis, II (Mission C)
 - 5D** International Development (Islands A)
 - 5E** Disparities in Education and Wages (Garden C)
 - 5F** Housing Markets, Land Use, and Amenities, I (Garden D)
 - 5G** Spatial Distribution of Growth and Economic Activity, II (Islands B)
- **10:15 – 10:45 AM, Coffee Break** (Mission Patio)
- **12:15 – 1:45 PM, Lunch Break** (On your own this day)
- **1:45 – 5:15 PM, Six Concurrent Paper Sessions:**
 - 6A** Spatial Distribution of Growth and Economic Activity, III (Mission A)
 - 6B** Housing Markets, Land Use, and Amenities, II (Mission B)
 - 6C** Remote Regions, II: Innovation and Development in Remote Regions (Mission C)
 - 6D** Rural and Agricultural Issues (Islands A)
 - 6E** Regional Development Strategies (Garden C)
 - 6F** Industrial Location (Garden D)
- **1:45 – 5:15 PM, Panel Session 6G: Regional Data: Issues and Prospects** (Islands B)
- **3:15 – 3:45 PM, Refreshment Break** (Mission Patio)
- **5:15 PM, Conference Ends**



Saturday, 8:00 AM – 12:15 PM

Paper Session 5A ~ Mission A

AUBER / WRSA Joint Session:

Western States' Economic Outlook

Chair: Timothy D. HOGAN, Arizona State Univ., Tempe, USA
Arizona

Marshall VEST, Univ. Arizona, Tucson, USA

California

Esmael ADIBI, Chapman University, Orange, CA, USA

Colorado

Richard WOBBEKIND, Univ. Colorado, Boulder, USA

Hawaii

Carl BONHAM, Univ. Hawaii, Honolulu, USA

Montana

Paul POLZIN, Univ. Montana, Missoula, USA

Nevada

Keith SCHWER, Univ. Nevada, Las Vegas, USA

10:15–10:45, Coffee Break

New Mexico

Lee A. REYNIS, Univ. New Mexico, Albuquerque, USA

Oregon

R. Pete PARCELLS and Laura BAKKENSEN, Whitman College, Walla Walla, WA, USA

Texas

Bruce KELLISON, Univ. Texas, Austin, USA

Washington

Hart HODGES, Western Washington Univ, Bellingham, USA



Saturday, 8:00 AM – 12:15 PM

Paper Session 5B ~ Mission B

Remote Regions, I: Surprises and Policy Changes in Northern Economies

Chair: Lee HUSKEY, Univ. Alaska, Anchorage, USA

8:00–8:45

Black Swans and Wild Cards: The Role of Random Chance in Alaska's Economic History

Terrence COLE, Univ. Alaska, Fairbanks, USA

Discussant: Greg PROTASEL, Univ. Alaska, Anchorage, USA

8:45–9:30

The Effects of Environmental Change on an Arctic Eskimo Community: Evaluation Using Local Cultural Perceptions

Carl SHEPRO, Univ. Alaska, Anchorage and Jerry MCBEATH, Univ. Alaska, Fairbanks, USA

Discussant: Lee HUSKEY, Univ. Alaska, Anchorage, USA

9:30–10:15

Economic Development Through State Ownership of Oil and Gas: Evaluating Alaska's Royalty-In-Kind Program

Matt BERMAN, Univ. Alaska, Anchorage, USA

Discussant: Christine CHARLES, Newmont Australia, Adelaide, South Australia

10:15–10:45, Coffee Break

10:45–11:30

Liberalization of Finland's Alkohopolitik in the Context of European Integration

Mary ERLANDER, Univ. Alaska, Fairbanks, USA

Discussant: Matt BERMAN, Univ. Alaska, Anchorage, USA

11:30–12:15

EU Enlargement and Political Marginalization: The Impact of Economic Development on the Traditional Livelihood of the Indigenous Minorities of Northern Russia

Lennard SILLANPAA, Univ. Helsinki, Finland

Discussant: Lassi HEININEN, Univ. Lapland, Finland



Saturday, 8:45 AM – 12:15 PM

Paper Session 5C ~ Mission C

Transportation Analysis, II

Chair: Edd HAUSER, Univ. North Carolina, Charlotte, USA

8:45–9:30

Pricing, Investment, and Network Equilibrium

Lei ZHANG, Univ. Minnesota, Minneapolis, USA

Discussant: Lei DING, George Mason Univ., Fairfax, VA, USA

9:30–10:15

Translating a Trip into a Choice: The Consequence of a One Dimensional Choice

Alison DAVIS, Univ. Nevada, Reno, USA

Discussant: Genevieve GUILIANO, Univ. Southern California, Los Angeles, USA

10:15–10:45, Coffee Break

10:45–11:30

The Macroeconomic Environment and Airline Profitability:

A Study of U.S. Regional Airlines

Ismail GENC and Jon R. MILLER, Univ. Idaho, Moscow, and

Dogan GURSOY, Washington State Univ., Pullman, USA

Discussant: Bijan VASIGH, Embry-Riddle Aeronautical Univ., Daytona Beach, FL, USA

11:30–12:15

An Approach to Airport Risk Assessment Using Normal Operations Data with Bootstrapped Logistic Regression

Derek K.Y. WONG, Andrew J. APPELYARD, Robert E. CAVES, and David E. PITFIELD, Loughborough Univ., UK

Discussant: Alan T. MURRAY, Ohio State Univ., Columbus, USA



Saturday, 8:00 AM – 12:15 PM

Paper Session 5D ~ Islands A

International Development

Chair: Lawrence D. SOMMERS, Michigan State Univ., East Lansing, USA

8:00–8:45

A Study of Ranking of Nation-States

Y. H. FAN, National Taiwan University, Taipei

Discussant: Mark T. MATTSO, Temple Univ., Philadelphia, PA, USA

8:45–9:30

Industrial Structure and Economic Complementarities in City Pairs on the Texas-Mexico Border

Robert W. GILMER and Jesus CAÑAS, Federal Reserve Bank of Dallas, El Paso, TX, USA

Discussant: Arthur L. SILVERS, Univ. Arizona, Tucson, USA

9:30–10:15

The Effects of Remittances and Foreign Direct Investment on Gross Capital Formation: The Case of Mexico

J. Ulyses BALDERAS, Sam Houston State Univ., Huntsville, TX, USA

Discussant: Donald P. HIRASUNA, Univ. Minnesota, Minneapolis, USA

10:15–10:45, Coffee Break

10:45–11:30

A Regional Economic Policy for Colombia

Juan David BARON, Gerson Javier PÉREZ V., and Peter ROWLAND, Banco de la República, Cartagena, Colombia

Discussant: Gregory L. HAMILTON, Univ. Arkansas, Little Rock, USA

11:30–12:15

The Change in Regional Development Patterns in Turkey through Liberalization of Industrial Activities

Mete Başar BAYPINAR, Istanbul Technical Univ., Turkey

Discussant: Jaime BONET, Banco de la República, Cartagena, Colombia



Saturday, 8:45 AM – 12:15 PM

Paper Session 5E ~ Garden C

Disparities in Education and Wages

Chair: Nasser DANESHVARY, Univ. Nevada, Las Vegas, USA

8:45–9:30

Human Capital Accumulation and Geography: Empirical Evidence in the European Union

Jesús LÓPEZ-RODRIGUEZ, London School of Economics, UK, and Univ. of A Coruña, J. Andres FAINA MEDIN and Jose LOPEZ RODRIGUEZ, University of A Coruña, Spain

Discussant: Charlie KARLSSON, Jönköping International Business School, Sweden

9:30–10:15

Rural School Quality: Does it Matter for Rural Students and Communities

Robert M. GIBBS, U.S. Dept. of Agriculture, Washington D.C., USA

Discussant: Warren GILL, Simon Fraser Univ., Burnaby, B.C., Canada

10:15–10:45, Coffee Break

10:45–11:30

School Vouchers and the Flight to Private Schools: To What Extent Are Public and Private Schools Substitutes?

David M. BRASINGTON, Louisiana State Univ., Baton Rouge, USA

Discussant: Mats WILHELMSSON, Royal Institute of Technology, Stockholm, Sweden

11:30–12:15

The Wage/Health-Insurance Tradeoff and the Size of the Gender-Wage Gap

Nasser DANESHVARY and Terrence M. CLAURETIE, Univ. Nevada, Las Vegas, USA

Discussant: Maureen KILKENNY, Iowa State Univ., Ames, USA



Saturday, 8:00 AM – 12:15 PM

Paper Session 5F ~ Garden D

Housing Markets, Land Use, and Amenities, I

Chair: Frank G. MITTELBAACH, Univ. California, Los Angeles, USA

8:00–8:45

Property Markets and Public Policy – Spillovers through Collateral Effect

Nan-Kuang CHEN, National Taiwan Univ., Taipei, and Charles Ka Yui LEUNG, Chinese Univ., Shatin, Hong Kong

Discussant: John QUIGLEY, Univ. California, Berkeley

8:45–9:30

A Hedonic Valuation of Riparian Corridors in Semi-Arid Regions Using Remotely Sensed Vegetation Indices

Rosalind H. BARK-HODGINS, Univ. Arizona, Tucson, Daniel E. OSGOOD, Columbia Univ., New York, and Bonnie G. COLBY, Univ. Arizona, Tucson, USA

Discussant: Alessandro DE PINTO, Univ. Redlands, CA, USA

9:30–10:15**House-Price Variation across Local Housing Markets:****A Supply-Side View**

Bengte EVENSON, Univ. Nevada, Las Vegas, USA

Discussant: Aaron SWOBODA, Univ. California, Berkeley, USA

10:15–10:45, Coffee Break**10:45–11:30****Hopscotch Equilibrium: A Suggestion for Dealing with Household Diversity Over a Large Urban Space in Amenity and Attribute Valuation**

Michael C. FARMER, Georgia Institute of Technology, Atlanta, USA

Discussant: John I. CARRUTHERS, Mundy Associates, Seattle, WA, USA

11:30–12:15**The Location of Illegal Drug Markets: Is It Economic or Social Determinants?**

George F. RENGERT and Jerry RATCLIFFE, Temple Univ., Philadelphia, USA

Discussant: Christopher BITTER, Univ. Arizona, Tucson, USA

**Saturday, 8:45 AM – 12:15 PM****Paper Session 5G ~ Islands B
Spatial Distribution of Growth
and Economic Activity, II**

Chair: Neil REID, Univ. Toledo, OH, USA

8:45–9:30**Growth and Dispersion: Spatial Production Function and the Case of US Industry 1969–2000**

Zouoquan ZHAO, George Mason Univ., Fairfax, VA, USA

Discussant: Mukesh KUMAR, Jackson State Univ., MS, USA

9:30–10:15**Possible Sources of Wage Divergence Among Metropolitan Areas of the United States**

Matthew P. DRENNAN, Univ. California, Los Angeles, USA

Discussant: Discussant: Brigitte WALDORF, Purdue Univ., West Lafayette, IN, USA

10:15–10:45, Coffee Break**10:45–11:30****A Survey of Growth Empirics and Space**

Maria ABREU, Henri L.F. DE GROOT and Raymond J.G.M. FLORAX, Free University, Amsterdam, Netherlands

Discussant: Stuart H. SWEENEY, Univ. California, Santa Barbara, USA

11:30–12:15**Wages, Rent, Unemployment and Amenities**

Steven DELLER, Univ. Wisconsin, Madison, USA

Discussant: Roger RIEFLER, Univ. Nebraska, Lincoln, USA

**Saturday, 1:45 – 5:15 PM****Paper Session 6A ~ Mission A
Spatial Distribution of Growth and
Economic Activity, III**

Chair: Hart HODGES, Western Washington Univ., Bellingham

1:45–2:30**Poverty in Metropolitan Areas of the U.S.: Causes and Consequences**

Donald G. FREEMAN, Sam Houston State Univ., Houston, TX, and Vijay K. MATHUR, Cleveland State Univ., OH, USA

Discussant: Robert GIBBS, U.S. Department of Agriculture, Economic Research Service, Washington, DC

2:30–3:15**Geography, Cost-of-Living, and Determinants to Economic Growth: A Study of the Swedish Regions, 1911–1993**

Patrik TINGVALL, Stockholm School of Economics and FIEF, and Joakim PERSSON, Trade Union Institute for Economic Research (FIEF), Sweden

Discussant: Matthew P. DRENNAN, Univ. California, Los Angeles, USA

3:15–3:45, Refreshment Break**3:45–4:30****Effects on Regional Growth and Net Migration of Military Close Downs: The Case of Sweden**

Linda ANDERSSON, Johan LUNDBERG, and Magnus SJÖSTRÖM, Umeå Univ., Sweden

Discussant: Keith SCHWER, Univ. Nevada, Las Vegas, USA

4:30–5:15**State Patterns of Occupation Earnings: Implications for Long-term Growth**

Roger F. RIEFLER, Univ. Nebraska, Lincoln, USA

Discussant: Bruce KELLISON, Univ. Texas, Austin, USA

**Saturday, 1:45 – 5:15 PM****Paper Session 6B ~ Mission B
Housing Markets, Land Use, and Amenities, II**

Chair: George RENGERT, Temple Univ., Philadelphia, USA

1:45–2:30**Estimation of Consumer Willingness to Pay for “Greenness” in Tucson, Arizona**

Eve HALPER, Univ. Arizona, Tucson, USA

Discussant: Michael C. FARMER, Georgia Institute of Technology, Atlanta, USA

2:30–3:15**Land Use Change with Spatially Explicit Data: A True Dynamic Approach**

Alessandro DE PINTO, Univ. Redlands, CA, USA

Discussant: Rosalind H. BARK-HODGINS, Univ. Arizona, Tucson, USA

3:15–3:45, Refreshment Break**3:45–4:30****Diagnostics on a Land Use Based Regional Adjustment Model**

John I. CARRUTHERS, Mundy Associates, Seattle, WA and Gordon F. MULLIGAN, Univ. Arizona, Tucson, USA

Discussant: Bengte EVENSON, Univ. Nevada, Las Vegas, USA

4:30–5:15**The Implicit Market for Land and the Neo-Classical Urban Economic Equilibrium**

Aaron SWOBODA, Univ. California, Berkeley, USA

Discussant: Charles Ka Yui LEUNG, Chinese Univ., Shatin, Hong Kong

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Saturday, 1:45 – 5:15 PM

Paper Session 6C ~ Mission C Remote Regions, II: Innovation and Development in Remote Regions

Chair: Doug JONES, Ohio State Univ., Columbus, USA

1:45–2:30

Partnerships for the Future – Aligning Mining and Indigenous Aspirations

Christine CHARLES, Newmont Australia, Adelaide, South Australia

Discussant: Jerry MCBEATH, Univ. Alaska, Fairbanks, USA

2:30–3:15

Role of an Interplay between Science and Politics in Northern Region Stage Building

Lassi HEININEN, Univ. Lapland, Finland

Discussant: Mary ERLANDER, Univ. Alaska, Anchorage, USA

3:15–3:45, Refreshment Break

3:45–4:30

Entrepreneurs and Enterprise in Alaska History

Claus NASKE, Univ. Alaska, Fairbanks, USA

Discussant: Doug JONES, Ohio State Univ., Columbus, USA

4:30–5:15

Reframing the Alaska Anti-commons

Greg PROTASEL and Lee HUSKEY, Univ. Alaska, Anchorage, USA

Discussant: Terrence COLE, Univ. Alaska, Fairbanks, USA



Saturday, 1:45 – 5:15 PM

Paper Session 6D ~ Islands A Rural and Social Policy Issues

Chair: Tom HARRIS, Univ. Nevada, Reno, USA

1:45–2:30

The Resource-based Theory as a Framework to Analyze Human Resource Management in Agriculture

Amin W. MUGERA and Vera BITSCH, Michigan State Univ., E. Lansing, USA

Discussant: Jan FLORA, Iowa State Univ., Ames, USA

2:30–3:15

The Effects of Mad Cow Disease Discovery on U.S. Cattle and Beef Industry

Stephen DEVADOSS, David HOLLAND, Leroy STODICK, and Joydeep GHOSH, Washington State Univ. Pullman, USA

Discussant: Steve COOKE, Univ. Idaho, Moscow, USA

3:15–3:45, Refreshment Break

3:45–4:30

Diffusion of New Telecom Services: Myths and Realities in a Rural-Urban Difference

Peter L. STENBERG, U.S. Department of Agriculture, Economic Research Service, Washington, DC, USA

Discussant: Cynthia L. ROGERS, Univ. Oklahoma, Norman, USA

4:30–5:15

A Standard Chart for Social Accounts for an Institution to Assist Disabled People: The Case of Landeswohlfahrtsverband Sachsen

Peter FRIEDRICH and Alina POPESCU, University of the Federal Armed Forces of Germany, Munich

Discussant: R. Pete PARCELLS, Whitman College, Walla Walla, WA, USA



Saturday, 1:45 – 5:15 PM

Paper Session 6E ~ Garden C Regional Development Strategies

Chair: Jon R. MILLER, Univ. Idaho, Moscow, USA

1:45–2:30

Information and Communication Technology and the Places Left Behind

Michael LUGER, Univ. North Carolina, Chapel Hill, USA

Discussant: Jesus CAÑAS, Federal Reserve Bank of Dallas, El Paso, TX, USA

2:30–3:15

Exported Retail Sales Along the Texas-Mexico Border

Keith R. PHILLIPS, Federal Reserve Bank of Dallas, San Antonio, TX, and Roberto CORONADO, Federal Reserve Bank of Dallas, El Paso, TX, USA

Discussant: Fernando DE PAOLIS, Monterey Institute of International Studies, CA, USA

3:15–3:45, Refreshment Break

3:45–4:30

A Metropolitan Philadelphia Regional Indicators Project and the Development of a Community Typology

Mark T. MATTSON, Josh FREELY, Carolyn T. ADAMS, David BARTELT, David ELESH, Leonard LOSCIUTO, Temple Univ., Philadelphia, PA, USA

Discussant: Lay James GIBSON, Univ. Arizona, Tucson, USA

4:30–5:15

How Can Western China Attract FDI? A Case of Japanese Investment

Shaoming CHENG, George Mason Univ., Fairfax, VA, USA

Discussant: J. Ulyses BALDERAS, Sam Houston State Univ., Huntsville, TX, USA



Saturday, 1:45 – 5:15 PM

Paper Session 6F ~ Garden D Industrial Location

Chair: Yoji KUNIMITSU, National Institute for Rural Engineering, Tsukuba, Japan

1:45–2:30

Industrial Complexes Revisited

Jean H.P. PAELINCK, George Mason Univ., Fairfax, VA, USA

Discussant: Oleg SMIRNOV, San Diego State Univ., CA, USA

2:30–3:15

A Theory of Spatial Production

Oleg SMIRNOV, San Diego State Univ., CA, USA

Discussant: Dao-Zhi ZENG, Kanagawa Univ., Japan

3:15–3:45, Refreshment Break

3:45–4:30

Mors tua, vita mea? The Rise and Fall of Industrial Clusters

Mario A. MAGGIONI, Catholic Univ. Milan, Italy

Discussant: Cesar M. FUENTES, Univ. Texas, El Paso, USA

4:30–5:15

Detecting Agglomeration Processes in the Product Life Cycle and Sudden Changes Using Space-Time Clustering Analyses

Hoje KANG, Cleveland State Univ., OH, USA

Discussant: Nicholas NAGLE, Univ. California, Santa Barbara, USA



Saturday, 1:45 – 5:15 PM

Panel Session 6G ~ Islands B

Regional Data: Issues and Prospects

Chair: Stuart H. SWEENEY, Univ. California,
Santa Barbara, USA

Presentations:

Regional Research Using Census Bureau Micro Data at the Center for Economic Studies

James C. DAVIS and Brian P. HOLLY, U.S. Census Bureau,
Washington, DC

Integrated Employer-Employee Data: New Frontiers in Regional Data Analysis

Julia I. LANE, National Science Foundation, Arlington, VA,
and Bryce E. STEPHENS, U.S. Census Bureau, Washington,
DC

Pandora's Box: The Potential and Peril of Migration Data from the American Community Survey

Rachel S. FRANKLIN, Univ. Maryland, College, Park, and
David A. PLANE, Univ. Arizona, Tucson, USA

Interstate Trade: A Key Component in Understanding Regional Growth and Development

Geoffrey J.D. HEWINGS, Univ. Illinois, Urbana-Champaign,
USA

Discussant:

John KORT, U.S. Bureau of Economic Analysis, Washington, DC

5:15 PM, Conference Ends

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Make your plans now to participate at WRSA's 45th Annual Meeting to be held in the Land of Enchantment, and in one of North America's most singular cities: Santa Fe, New Mexico. Get working on a paper for submittal by the customary October 15 deadline!

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Program Participant Locator

Session assignments are listed following each participant's name:

1A, 1B, 1C, 1D, 1E, 1F **on Thursday Morning**
2A, 2B, 2C, 2D, 2E, 2F, 2G **on Thursday Afternoon**

3A, 3B, 3C, 3D, 3E, 3F, 3G **on Friday Morning**
4A, 4B, 4C, 4D, 4E, 4F, 4G **on Friday Afternoon**

5A, 5B, 5C, 5D, 5E, 5F, 5G **on Saturday Morning**
6A, 6B, 6C, 6D, 6E, 6F, 6G **on Saturday Afternoon**

OS = Opening Session **on Wednesday Afternoon**

NE = NE-1011 Business Meeting **on Thursday Morning**

WB = WRSA Board Meeting **on Thursday Afternoon**

AB = Annual Banquet Luncheon **on Friday**

➤ Roman typeface (regular font) for a session number indicates a Paper Author, Panelist, or Speaker

➤ **Boldface** indicates a Session Chair.

➤ *Italics* indicate a Discussant.

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