



Western Regional Science Association

53rd Annual Meeting

Paradise Point Resort and Spa, San Diego, California

February 16–19, 2014

Welcome to San Diego and to WRSA's 53rd annual meeting! For some of you this will be a new city, while for others the city—and even this resort—will be familiar territory.

As always, please be sure to read over the program carefully and to check your session assignments: late program changes are sadly unavoidable. A participant index follows the program and should assist you with this task. Monday and Wednesday sessions commence at 8 AM this year, and Tuesday's will start at 8:30 AM. Please also take a look at our session "format and etiquette" guidelines on Page 3 of this program; adhering to them helps maintain high session quality. Along with your program and name badge, you also received a set of colored tickets when you checked in at the registration desk—don't lose them; they are worth real money! To help orient you to our conference venue, the back page of the program indicates the locations of the meeting rooms we'll be using.

As always, a fairly full program awaits you over the next several days. John Weeks, a demographer and geographer from San Diego State University, will be our opening speaker on Sunday afternoon at the 4th Annual Lay James Gibson Plenary Session. The plenary will be held in Sunset Ballrooms I and II. Weeks' talk will be followed by our Welcoming Reception, which will take place out on the Sunset Ballroom deck (and in Sunset Ballrooms III & IV, for those shy of fresh air). Your LIGHT GREEN ticket is good for your first drink at the reception. Courtesy of AUBER, the Association of University Business and Economic Research, you also have a second—BRIGHT GREEN—ticket that gives you a second complimentary drink. Thanks, AUBER!

Following on last year's successful inaugural lecture, the 2nd Annual Getis-Ord Lecture in Spatial Analysis will be given by Luc Anselin on Monday afternoon in the Island Room. All meeting participants are welcome at this lecture, which will be followed by a light reception. As a bonus, the insert in your plenary program can be used for a first drink!

Tuesday is a busy day. At the Annual Banquet Luncheon, to be held in the Pacific Room, Serge Rey, WRSA's incoming President, will give his Presidential Address and the winners of the Tiebout and Springer awards will also be announced. Your BLUE ticket is required in order to be seated at the Luncheon; no exceptions will be made. Join us on the Paradise Terrace Tuesday evening for the Presidential Reception, hosted by Serge Rey. Your YELLOW ticket is good for one drink. Naturally, additional drinks may be purchased from the bar.

All the best for a memorable and productive meeting, with fair weather, stimulating sessions, and the camaraderie WRSA is known for.



Sunday, February 16

2:00–6:00 PM, **Registration** (Bay View / Sunset Foyer)

3:30–5:15 PM, **Plenary Opening Session**
(Sunset Ballrooms I & II)

5:30–7:00 PM, **Welcoming Reception**
(Sunset Ballrooms III & IV and Deck)

Sunday, 3:30–5:15 PM

Sunset Ballrooms I & II

The 4th Annual Lay James Gibson Plenary Opening Session



Chair: Lay James GIBSON, Univ. Arizona, Tucson, USA
and 39th WRSA President (1998–1999)

North of the Border:

The Changing Demographics of San Diego

John WEEKS, San Diego State Univ., California, USA

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



Sunday, 5:30–7:00 PM

Welcoming Reception

Sunset Ballrooms III & IV and Deck

*For all participants and accompanying persons:
Everyone welcome!*

Cosponsored by AUBER



Monday, February 17

7:30 AM–12:15 PM (and 1:15–5:45 PM),

Registration (Bay View / Sunset Foyer)

8:00 or 8:45–12:15 PM, **Concurrent Sessions:**

- 1A The Keith Schwer Memorial Western States Economic Outlook (Dockside Room)
- 1B Regional Analysis (Bay View Room)
- 1C Urban and Regional Demography (Sunset I)
- 1D Cities: Sprawl, Compactness, and Greenness (Sunset II)
- 1E Transportation and Environmental Considerations (Sunset III)
- 1F Regional Climate Impacts and Responses (Sunset IV)
- 1G Real Estate (Sunset V)

8:30–10:00 AM, **WRSA Board Meeting** By invitation only (Garden Room)

10:15–10:45 AM, **Coffee Break** (Sunset Deck)

12:15–1:30 PM, **Lunch Break** (On your own this day)

1:15–5:45 PM, **Registration Continues** (Bay View / Sunset Foyer)

1:30–4:45 PM, **Concurrent Sessions:**

- 2A Regional Economic Development (Dockside Room)
- 2B Trade (Bay View Room)
- 2C Transport System Analysis (Sunset I)
- 2D Environmental Technologies and Economic Performance (Sunset II)
- 2E Housing and Demography (Sunset III)
- 2F Entrepreneurship and Self-Employment (Sunset IV)

3:00–3:15 PM, **Coffee Break** (Sunset Deck)

5:00–7:30 PM

2nd Annual Getis-Ord Lecture in Spatial Analysis (Island Room and Foyer)



Monday, 8:00 AM–12:15 PM

Panel Session 1A ~ Dockside Room

The Keith Schwer Memorial

Western States Economic Outlook

(Cosponsored by AUBER)

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

Western States Overview

Dennis HOFFMAN, Arizona State Univ., Tempe, USA

Arizona

George HAMMOND, Univ. Arizona, Tucson, USA

Southern California

Esmael ADIBI, Chapman Univ., Orange, California, USA

Northern California

Jeffrey MICHAELS, Univ. Pacific, Stockton, California, USA

10:15–10:45, **Coffee Break**

10:45–12:15

Colorado

Richard WOBBEKIND, Univ. Colorado, Boulder, USA

Montana

Paul POLZIN, Univ. Montana, Missoula, USA

Nevada

Stephen BROWN, Univ. Nevada, Las Vegas, USA

Washington

Pete PARCELLS, Whitman College, Walla Walla, Washington, USA



Monday, 8:45 AM–12:15 PM

Paper Session 1B ~ Bay View Room

Regional Analysis

Chair: Anna Maria PINNA, Univ. Cagliari, Sardinia, Italy

8:45–9:30

An application of difference-in-difference models: Effects of prevailing wage legislation in mountain states of the U.S.

Thomas R. HARRIS, Sankar MUKHOPADHYAY, and Nathan WISEMAN, Univ. Nevada, Reno, USA

Discussant: Raffaele PACI, Univ. Cagliari, Sardinia, Italy

9:30–10:15

Job destruction or job creation: Are there any systematic differences among regions in Italy?

Bianca BIAGI and Maria Gabriela LADU, Univ. Sassari, Sardinia, Italy

Discussant: Irving LLAMOSAS-ROSAS, Univ. Arizona, Tucson, USA

10:15–10:45, **Coffee Break**

10:45–11:30

Resilience revisited: Assessing the impact of the 2007–2009 recession on 83 Canadian regions with closing thoughts on an elusive concept

Jean DUBÉ, Univ. Québec, Rimouski, and Mario POLÈSE, Univ. Québec, Montréal, Canada

Discussant: Marquise McGRAW, Univ. California, Berkeley, USA

11:30–12:15

East is East and West is West: A comparative analysis for Russia

Olga DEMIDOVA, National Research Univ., Moscow, Russia

Discussant: Maria Gabriela LADU, Univ. Sassari, Sardinia, Italy



Monday, 8:45 AM–12:15 PM

Paper Session 1C ~ Sunset I

Urban and Regional Demography

Chair: William B. BEYERS, Univ. Washington, Seattle, USA

8:45–9:30

Residential segregation and employment outcomes of rural migrant workers in China: Addressing self-selection bias with attitude information

Pengyu ZHU, Boise State Univ., Idaho, USA

Discussant: Deokho CHO, Daegu Univ., Korea

9:30–10:15

Schools and the decentralization of families in a metropolis

William A. TESTA, Federal Reserve Bank, Chicago, and William SANDER, DePaul Univ., Chicago, Illinois, USA

Discussant: SeongWoo LEE, Seoul National Univ., Korea

10:15–10:45, **Coffee Break**

10:45–11:30

Population composition, urban neighborhoods, and future scenarios: A crystal ball perspective, from past to future

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

Discussant: Viktor VENHORST, Univ. Groningen, The Netherlands

11:30–12:15

The role of income in determining fertility rates

Katherine CHALMERS and Julie YOUNG, California State Univ., Sacramento, and Walter SCHWARM, California Dept. Finance, USA

Discussant: Sungyop KIM, Univ. Missouri, Kansas City, USA



Monday, 8:00 AM–12:15 PM

Paper Session 1D ~ Sunset II**Cities: Sprawl, Compactness, and Greenness**Chair: Mark D. PARTRIDGE, Ohio State Univ., Columbus, USA
8:00–8:45**Stockholm – from ugly duckling to Europe's first green capital**
Björn HÅRSMAN and Bo WIJMARK, Royal Inst. Technology, Stockholm, Sweden

Discussant: Tracy STOBBE, Trinity Western Univ., Langley, British Columbia, Canada

8:45–9:30

Compact development and preference heterogeneity in residential location choice behavior: A latent class analysis

Haifeng Felix LIAO, Steven FARBER, and Reid EWING, Univ. Utah, Salt Lake City, USA

Discussant: Daoqin TONG, Univ. Arizona, Tucson, USA

9:30–10:15

Urban sprawl and local governmental cost in Japan

Tomoya IDA and Hiroshi ONO, Oita Univ., Japan

Discussant: Qian AN, Univ. Southern California, Los Angeles, USA

10:15–10:45, Coffee Break

10:45–11:30

Compactness vs. sprawl: Counties, metropolitan areas and urbanized areas compared

Harry W. RICHARDSON, Autonomous Univ. State of Mexico, Toluca, Reid EWING and Shima HAMIDI, Univ. Utah, Salt Lake City, and Christine BAE, Univ. Washington, Seattle, USA

Discussant: Mats JOHANSSON, Royal Inst. Technology, Stockholm, Sweden

11:30–12:15

Municipal planning and urban land use change dynamics in Southern California

Jae Hong KIM, John R. HIPPE, Victoria BASOLO, and Harya S. DILLON, Univ. California, Irvine, USA

Discussant: Mark D. PARTRIDGE, Ohio State Univ., Columbus, USA



Monday, 8:30–10:00 AM

WRSA Board Meeting

(By invitation only)

Garden Room

Convenor: Rachel Franklin,
Brown Univ., Providence, Rhode Island, USA,
and WRSA Executive Director

Monday, 8:00 AM–12:15 PM

Paper Session 1E ~ Sunset III**Transportation and Environmental Considerations**

Chair: Olof NETZELL, Royal Inst. Technology, Stockholm, Sweden

8:00–8:45

The high cost of minimum parking requirements

Donald SHOUP, Univ. California, Los Angeles, USA

Discussant: Sungwon LEE, Univ. Illinois, Urbana-Champaign, USA

8:45–9:30

Distance charges and fuel taxes on trucks – effects from strategic interactions

Stef PROOST, Katholieke Univ., Leuven, Belgium, and Svante MANDELL, Royal Inst. Technology, Stockholm, Sweden

Discussant: Zhenhua CHEN, George Mason Univ., Arlington, Virginia, USA

9:30–10:15

Does smart growth work better under higher fuel prices?**Complementary effects of land use planning and pricing on VMT reduction**

Sungwon LEE and Bumsoo LEE, Univ. Illinois, Urbana-Champaign, USA

Discussant: Mohja RHOADS, Univ. Southern California, Los Angeles, USA

10:15–10:45, Coffee Break

10:45–11:30

Balancing mobility and CO2 reduction by an optimal mode share scheme

Dohyung KIM, California State Polytechnic Univ., Pomona, Jooil LEE, The Seoul Inst., Korea, and Simon CHOI, Southern California Assoc. Governments, Los Angeles, USA

Discussant: Michael OLSSON, Univ. Skövde, Sweden

11:30–12:15

Which one is better? One big city region vs. independent smaller cities on the aspect of CO2 in the transportation sector at the national scale

Jaebin LIM and Myounggu KANG, Univ. Seoul, and Changmu JUNG, Seoul National Univ., Korea

Discussant: Dohyung KIM, California State Polytechnic Univ., Pomona, USA

Notes on Session Format and Etiquette

- Per WRSA custom, each paper is allocated 45 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.
- Participants: Please arrive at your session 10 minutes early to make A/V preparations (i.e., load presentations onto a laptop).
- At least one of the participants needs to bring a laptop for use by presenters in the session.
- Chairs: Please do not change the order of presentations listed in the program, and please adhere to the scheduled times.
- As a courtesy to other presenters, all participants are asked to stay for the entire session. —Thanks!

Monday morning program continues on page 4...



Monday, 8:45 AM–12:15 PM

Paper Session 1F ~ Sunset IV

Regional Climate Impacts and Responses

Chair: Adam ROSE, Univ. Southern California, Los Angeles, USA
8:45–9:30

A new perspective on climate-induced migration: Feedback from the labor and housing markets

Qin FAN, California State Univ., Fresno, Karen FISHER-VANDEN, Pennsylvania State Univ., University Park, and H. Allen KLAIBER, Ohio State Univ., Columbus, USA

Discussant: Bryan ROBERTS, Univ. Southern California, Los Angeles, USA

9:30–10:15

The state-level economic impacts of U.S. federal emissions trading policy

Fynnwin PRAGER, Univ. Southern California, Los Angeles, USA
Discussant: Steven PIPER, U.S. Bureau Reclamation, Denver, Colorado, USA

10:15–10:45, Coffee Break

10:45–11:30

The impact of climate change on agriculture in the South-West United States: The Ricardian approach revisited

Sandy DALL'ERBA and Francina DOMINGUEZ, Univ. Arizona, Tucson, USA

Discussant: Ataru NAKAMURA, Univ. Tokyo, Japan

11:30–12:15

Dynamics of energy transitions under climate change in northwest Germany

Matthias RUTH and Onur ÖZGÜN, Northeastern Univ., Boston, Massachusetts, USA, Jakob WACHSMUTH, Univ. Bremen, Germany, Andrew BLOHM and Rebecca GASPER, Univ. Maryland, College Park, USA, Stefan GÖBLING-REISEMANN, Univ. Bremen, Germany, Tobias EICKEMEIER, BeOne Hamburg, Germany, Nana KARLSTETTER, Univ. Oldenburg, Germany, and Sönke STÜHRMANN, Univ. Bremen, Germany

Discussant: Hyun KIM, Univ. Wisconsin, Madison, USA



Monday, 8:00 AM–12:15 PM

Paper Session 1G ~ Sunset V

Real Estate

Chair: Larry A. BISSETT, Systems Research Group, Seattle, Washington, USA

8:00–8:45

School accountability ratings and housing prices: Testing No Child Left Behind

Douglas P. WOODWARD, Joseph C. VON NESSEN, and Paulo GUIMARAES, Univ. South Carolina, Columbia, and Marcus T. ALLEN, Florida Gulf Coast Univ., Fort Myers, USA

Discussant: Abukar WARSAME, Royal Inst. Technology, Stockholm, Sweden

8:45–9:30

The residential value of energy efficient housing

Marie H. WAHLSTRÖM, Royal Inst. Technology, Stockholm, Sweden

Discussant: Brian H.S. KIM, Seoul National Univ., Korea

9:30–10:15

Reliable accessibility: Does travel time reliability impact real estate markets?

Paul WADDELL and Fletcher FOTI, Univ. California, Berkeley, USA

Discussant: Yuting HOU, Univ. Southern California, Los Angeles, USA

10:15–10:45, Coffee Break

10:45–11:30

Forced sales and its impact on real estate sale prices

Herman DONNER, Han-Suck SONG, and Mats WILHELMSSON, Royal Inst. Technology, Stockholm, Sweden

Discussant: Andy KRAUSE, Univ. Washington, Seattle, USA

11:30–12:15

A method to determine capitalization in small data samples

Fredrik KOPSCH, Royal Inst. Technology, Stockholm, Sweden

Discussant: Ralph B. McLAUGHLIN, San Jose State Univ., California, USA

Monday, 12:15–1:30 PM

Lunch Break (On your own this day)



Monday, 1:30–4:45 PM

Paper Session 2A ~ Dockside Room

Regional Economic Development

Chair: George HAMMOND, Univ. Arizona, Tucson, USA

1:30–2:15

A literature review of recent research on the role of innovation for regional development

Irene BERNHARD, Royal Inst. Technology, Stockholm, Sweden

Discussant: Timothy F. SLAPER, Indiana Univ., Bloomington, USA

2:15–3:00

Clusters, entrepreneurship and regional economic growth:

Assessment and policy analysis

Roger R. STOUGH, George Mason Univ., Arlington, Virginia, USA

Discussant: Matthew Robert GRAY, Univ. North Texas, Denton, USA

3:00–3:15, Coffee Break

3:15–4:00

Do federal programs promote growth in the recipient counties?

Sandy DALL'ERBA and Irving LLAMOSAS-ROSAS, Univ. Arizona, Tucson, USA

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

4:00–4:45

(Perhaps) The sky's the limit? Assessing the historical effect of smaller airports on the local economy

Marquise McGRAW, Univ. California, Berkeley, USA

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





Monday, 1:30–4:45 PM
Paper Session 2B ~ Bay View Room
Trade

Chair: Claude GRUEN, Gruen Gruen + Associates,
 San Francisco, California, USA

1:30–2:15

Eurozone and East Asian crises: Similarities, differences and implications for regionalism

Sasidaran GOPALAN, George Mason Univ., Arlington, Virginia, USA

Discussant: Jaewon LIM, Univ. Nevada, Las Vegas, USA

2:15–3:00

Symmetric and asymmetric effects of proximities: The case of M & A deals in Italy

Ron BOSCHMA, Lund Univ., Sweden, and Utrecht Univ., The Netherlands, Emanuela MARROCU, and Raffaele PACI, Univ. Cagliari, Sardinia, Italy

Discussant: Therese NORMAN, Jönköping International Business School, Sweden

3:00–3:15, Coffee Break

3:15–4:00

Panama canal expansion and U.S. trade diversion from West Coast seaports

ChangKeun PARK, Univ. Georgia, Athens, and JiYoung PARK, Univ. Buffalo, New York, USA

Discussant: Rafael GARDUÑO-RIVERA, Centro de Investigación y Docencia Económicas, Mexico

4:00–4:45

The impact on the U.S. economy of change in wait times at ports of entry

Bryan ROBERTS, Adam ROSE, Nathaniel HEATWOLE, Dan WEI, Misak AVETISYAN, Oswin CHAN, and Isaac MAYA, Univ. Southern California, Los Angeles, USA

Discussant: Tony H. GRUBESIC, Oregon State Univ., Corvallis, USA



Monday, 1:30–4:45 PM
Paper Session 2C ~ Sunset I
Transport System Analysis

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

1:30–2:15

Multilevel assessment of public transportation infrastructure: A spatial econometric computable general equilibrium approach

Zhenhua CHEN, George Mason Univ., Arlington, Virginia, USA

Discussant: Henk FOLMER, Univ. Groningen, The Netherlands

2:15–3:00

New data, new applications: Using transportation system data for regional monitoring

Genevieve GIULIANO, Mohja RHOADS, and Sandip CHAKRABARTI, Univ. Southern California, Los Angeles, USA

Discussant: Jaebin LIM, Univ. Seoul, Korea

3:00–3:15, Coffee Break



3:15–4:00

A guide to entropy maximization in transport analysis

Michael OLSSON, Univ. Skövde, Sweden

Discussant: Asao ANDO, Tohoku Univ., Japan

4:00–4:45

Using “big data” for transportation analysis: A case study of L.A. Metro Expo line

Genevieve GIULIANO, Sandip CHAKRABARTI, and Mohja RHOADS, Univ. Southern California, Los Angeles, USA

Discussant: Jae Hong KIM, Univ. California, Irvine, USA



Monday, 1:30–4:45 PM
Paper Session 2D ~ Sunset II
Environmental Technologies and Economic Performance

Chair: Harry W. RICHARDSON,
 Autonomous Univ. State of Mexico, Toluca

1:30–2:15

Economic evaluation of the demand-driven services for irrigation facilities of rice cropping: A case study of Aichi irrigation project

Katsuhiro SAKURAI, Risscho Univ., Tokyo, Ataru NAKAMURA, Univ. Tokyo, Hiroyuki SHIBUSAWA, Toyohashi Univ.

Technology, and Hajime TANJI, National Agriculture and Food Research Org., Ibaraki, Japan

Discussant: Prahlad KASTURI, Radford Univ., Virginia, USA

2:15–3:00

The willingness to pay for water conservation devices: Analysis of Southern California smart timer data

Steven PIPER, U.S. Bureau Reclamation, Denver, Colorado, USA

Discussant: Thomas R. HARRIS, Univ. Nevada, Reno, USA

3:00–3:15, Coffee Break

3:15–4:00

Evaluation of green building preferences using rank-ordered logit model: Case of Seoul Metropolitan Area

Tongjoo SUH, Sujung PARK, Daeyoung KWON, and Brian H.S. KIM, Seoul National Univ., Korea

Discussant: Marlon BOARNET, Univ. Southern California, Los Angeles, USA

4:00–4:45

Evaluating the economic impact of hybrid and electric vehicles in Asia: An input-output application

Hiroyuki SHIBUSAWA and Yuzuru MIYATA, Toyohashi Univ. Technology, and Katsuhiro SAKURAI, Risscho Univ., Tokyo, Japan

Discussant: Svante MANDELL, Royal Inst. Technology, Stockholm, Sweden



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

Annual Meeting participants are cordially invited to submit their papers to WRSA's official journal, *The Annals of Regional Science*. All three of the coeditors, Börje Johansson, Euijune Kim and Janet Kohlhasse, are here in San Diego and will be happy to discuss potential submissions.

Monday afternoon program continues on page 6...



Monday, 1:30–4:45 PM
Paper Session 2E ~ Sunset III
Housing and Demography

Chair: Paul WADDELL, Univ. California, Berkeley, USA
 1:30–2:15

The potential poverty of “ageing” baby boomers as the house poor

Gil Hwan PARK and Deokho CHO, Daegu Univ., and Ji Young LEE, Yeungnam Univ., Korea

Discussant: Han-Suck SONG, Royal Inst. Technology, Stockholm, Sweden

2:15–3:00

Housing type, tenure, and location choices of older households in the Southern California region

Sungyop KIM, Univ. Missouri, Kansas City, and Simon CHOI, Southern California Assoc. Governments, Los Angeles, USA

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

3:00–3:15, *Coffee Break*

3:15–4:00

Does education matter for homeowner’s relocation decision? Empirical evidence from Seoul, Korea

JaeHee HWANG, JongHoon PARK, and SeongWoo LEE, Seoul National Univ., Korea

Discussant: William SANDER, DePaul Univ., Chicago, Illinois, USA

4:00–4:45

Demography as a determinant for housing construction

Fredrik KOPSCH and Abukar WARSAME, Royal Inst. Technology, Stockholm, Sweden

Discussant: Paul WADDELL, Univ. California, Berkeley, USA



Monday, 1:30–4:45 PM
Paper Session 2F ~ Sunset IV
Entrepreneurship and Self-Employment

Chair: Stephen BROWN, Univ. Nevada, Las Vegas, USA

1:30–2:15

Entrepreneurial interest of university students in the Netherlands

Tüzin BAYCAN, Istanbul Technical Univ., Turkey

Discussant: Jouke VAN DIJK, Univ. Groningen, The Netherlands

2:15–3:00

Is there evidence that wage and salary workers turned to self-employment in the Great Recession?

William B. BEYERS, Univ. Washington, Seattle, USA

Discussant: Mario POLÈSE, Univ. Québec, Montréal, Canada

3:00–3:15, *Coffee Break*

3:15–4:00

Human capital and self-employment propensity

Johan KLAESSON and Johan P. LARSSON, Jönköping International Business School, Sweden

Discussant: Elizabeth A. MACK, Arizona State Univ., Tempe, USA

4:00–4:45

The early careers of self-employed students

Viktor VENHORST and Sierdjan KOSTER, Univ. Groningen, The Netherlands

Discussant: Norma GOMEZ, Ohio State Univ., Columbus, USA

5:00–7:30 PM

Island Room and Foyer

2nd Annual

Getis-Ord Lecture in Spatial Analysis

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

Big Data, Spatial Analysis and CyberGIScience

Luc ANSELIN, Arizona State University, Tempe, USA

Discussant: Henk FOLMER, Univ. Groningen, The Netherlands

A reception will follow the lecture

All session attendees welcome!



Tuesday, February 18

8:00 AM–12:15 PM (and 2:15–6:00 PM),

Registration (Bay View / Sunset Foyer)

8:30 AM–12:00 PM, **Concurrent Sessions:**

3A Firm Growth (Dockside Room)

3B Methods and Models in Regional Science I (Bay View Room)

3C Remote Regions I: The Economy of Remote Regions (Sunset I)

3D Transportation and Economic Performance (Sunset II)

3E Regional Variation: Causes and Effects (Sunset III)

3F Infrastructure and Service Provision (Sunset IV)

3G Population Aging and Regional Impacts: The Case of Southern California (Sunset V)

10:00–10:30 AM, **Coffee Break** (Sunset Deck)

12:15–2:15 PM, **Annual Banquet Luncheon**

(Pacific Ballroom)

2:15–6:00 PM, **Registration Continues**

(Bay View / Sunset Foyer)

2:30–5:45 PM, **Concurrent Sessions:**

4A Transportation: Accessibility and Land Use Implications (Dockside Room)

4B Methods and Models in Regional Science II (Bay View Room)

4C Remote Regions II: Wellbeing in Remote Areas (Sunset I)

4D Energy, Environment, and Economic Performance (Sunset II)

4E Labor Markets and Productivity (Sunset III)

4F Urban-Rural Interactions and Interdependencies (Sunset IV)

4G Topics in Regional Science (Sunset V)

4:00–4:15 PM, **Coffee Break** (Sunset Deck)

6:00–7:30 PM, **President’s Reception** (Paradise Terrace)



Tuesday, 8:30 AM–12:00 PM
Paper Session 3A ~ Dockside Room
Firm Growth

Chair: Roger R. STOUGH, George Mason Univ.,
 Arlington, Virginia, USA

8:30–9:15

The influence of diversity on the formation, survival and growth of new firms

Mikaela BACKMAN, Jönköping International Business School, Sweden, and Janet KOHLHASE, Univ. Houston, Texas, USA

Discussant: Jangik JIN, Univ. Wisconsin, Madison, USA

9:15–10:00

Gazelles as innovators in Scandinavia

Mikko MOILANEN and Stein ØSTBYE, Arctic Univ. Norway, Tromsø, and Ossi PESÄMAA, Hanken School Economics, Helsinki, Finland

Discussant: Roger R. STOUGH, George Mason Univ.,
 Arlington, Virginia, USA

10:00–10:30, *Coffee Break*

10:30–11:15

Looking for high growth firms – of gazelles, mice and elephants: A micro-data analysis of Austrian firms 2002–2011

Michael STEINER, Univ. Graz, and Michael WAGNER-PINTER, Synthesis Vienna, Austria

Discussant: Emanuela MARROCU, Univ. Cagliari, Sardinia, Italy

11:15–12:00

Regional determinants of productivity in the Swedish wholesale sector

Therese NORMAN, Jönköping International Business School, Sweden

Discussant: ChangKeun PARK, Univ. Georgia, Athens, USA



Tuesday, 8:30 AM–12:00 PM
Paper Session 3B ~ Bay View Room
Methods and Models in Regional Science I

Chair: Myounggu KANG, Univ. Seoul, Korea

8:30–9:15

An integrated environmental and economic modeling framework for technological transitions

Randall W. JACKSON, West Virginia Univ., Morgantown, USA

Discussant: Fynnwin PRAGER, Univ. Southern California, Los Angeles, USA

9:15–10:00

To what extent does air pollution affect happiness? The case of the Jinchuan mining area, China

Zhengtao LI and Henk FOLMER, Univ. Groningen, The Netherlands, and Jianhong XUE, Northwest AF Univ., Yangling, China

Discussant: Sandy DALL'ERBA, Univ. Arizona, Tucson, USA

10:00–10:30, *Coffee Break*

10:30–11:15

The analysis of the link between capital flows and macro-financial-spatial income distribution indicators: Combining financial CGE and perception models

Hee Hwa MIN, Cornell Univ., Ithaca, New York, USA

Discussant: Yuko AKUNE, Reitaku Univ., Chiba, Japan

11:15–12:00

Spatial price equilibrium and the transport sector: A trade-consistent SCGE model

Asao ANDO, Tohoku Univ., and Bo MENG, Inst. Developing Economies, Japan

Discussant: Robert J. STIMSON, Univ. Melbourne, Australia



Tuesday, 8:30 AM–12:00 PM
Paper Session 3C ~ Sunset I
Remote Regions I:

The Economy of Remote Regions

Chair: Gérard DUHAIME, Univ. Laval, Québec, Canada

8:30–9:15

Capital cities and “Regional Hubs” in Canada’s north and peripheral small provincial capitals: an analysis of socio-economic differences

Pierre-Marcel DESJARDINS, Univ. Moncton, New Brunswick, Canada

Discussant: David NATCHER, Univ. Saskatchewan, Saskatoon, Canada

9:15–10:00

That’s where my money goes: Resource rents and the Yukon economy

Lee HUSKEY, Univ. Alaska, Anchorage, USA and Chris

SOUTHCOTT, Lakehead Univ., Thunder Bay, Ontario, Canada

Discussant: Gérard DUHAIME, Univ. Laval, Québec, Canada

10:00–10:30, *Coffee Break*

10:30–11:15

Studying remote economies: A proposal for an undergraduate course on remote regions

Wayne EDWARDS, Middlebury College, Vermont, USA

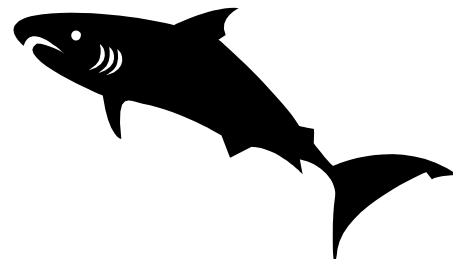
Discussant: Mouhcine GUETTABI, Univ. Alaska, Anchorage, USA

11:15–12:00

ACES high or low? The impact of a severance tax change on Alaskan oil production

Matthew REIMER and Mouhcine GUETTABI, Univ. Alaska, Anchorage, USA

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



Tuesday morning program continues on page 8...



Tuesday, 8:30 AM–12:00 PM
Paper Session 3D ~ Sunset II
Transportation Networks and Efficiencies

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

8:30–9:15

Essential air service in the United States: Exploring strategies to enhance spatial and operational efficiencies

Tony H. GRUBESIC, Oregon State Univ., Corvallis, Alan T. MURRAY, Arizona State Univ., Tempe, and Ran WEI and Fangwu WEI, Oregon State Univ., Corvallis, USA

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

9:15–10:00

Nonwork travel times and city size: Testing variances as well as means

Qian AN, Peter GORDON, and James E. MOORE II, Univ. Southern California, Los Angeles, USA

Discussant: David BRASINGTON, Univ. Cincinnati, Ohio, USA

10:00–10:30, *Coffee Break*

10:30–11:15

Traffic congestion, polycentricity and intra-urban firm location choices: A study of Los Angeles metropolitan area

Yuting HOU, Univ. Southern California, Los Angeles, USA
 Discussant: Haifeng Felix LIAO, Univ. Utah, Salt Lake City, USA

11:15–12:00

Regional impact of public transportation infrastructure: A spatial panel assessment of the U.S. Northeast megaregion

Zhenhua CHEN and Kingsley E. HAYNES, George Mason Univ., Arlington, Virginia, USA

Discussant: Daniel ARRIBAS-BEL, VU University, Amsterdam, The Netherlands



Tuesday, 8:30 AM–12:00 PM
Paper Session 3E ~ Sunset III
Regional Variation: Causes and Effects

Chair: Olga DEMIDOVA, National Research Univ.,
 Moscow, Russia

8:30–9:15

Price discovery over space in office markets

Lovisa HÖGBERG, Svante MANDELL, and Olof NETZELL, Royal Inst. Technology, Stockholm, Sweden

Discussant: John I. CARRUTHERS, George Washington Univ., Washington, D.C., USA

9:15–10:00

Data aggregation and stability within measures of regional specialization

Matthew Robert GRAY, Univ. North Texas, Denton, USA

Discussant: Pardis NABAVI, Royal Inst. Technology, Stockholm, Sweden

10:00–10:30, *Coffee Break*

10:30–11:15

Value added in college education: A regional approach

Norma GOMEZ and Alessandra FAGGIAN, Ohio State Univ., Columbus, USA

Discussant: Douglas P. WOODWARD, Univ. South Carolina, Columbia, USA

11:15–12:00

Regions and human capital: The regional level of human capital and its determinants

Mikaela BACKMAN and Pia NILSSON, Jönköping International Business School, Sweden

Discussant: Christian L. REDFEARN, Univ. Southern California, Los Angeles, USA



Tuesday, 8:30 AM–12:00 PM
Paper Session 3F ~ Sunset IV
Infrastructure and Service Provision

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

8:30–9:15

Variations in the broadband-business connection across the urban hierarchy

Elizabeth A. MACK, Arizona State Univ., Tempe, USA

Discussant: Tüzün BAYCAN, Istanbul Technical Univ., Turkey

9:15–10:00

To market, to market to buy...what? A consumer survey at farmers' markets in the lower mainland and Fraser Valley of British Columbia

Tracy STOBBE, Trinity Western Univ., Langley, British Columbia, Canada

Discussant: Wuyang HU, Univ. Kentucky, Lexington, USA

10:00–10:30, *Coffee Break*

10:30–11:15

The effects of corrupt municipal governance on the production of urban infrastructure: The case of Montréal, Québec

Michael FARRELL, Univ. Québec, Trois-Rivières, and Gerard MARCIL, Canada

Discussant: Woohyung LEE, Keimyung Univ., Korea

11:15–12:00

Public budget crisis conflicts and issues: Reducing cost of conflicts and increasing state by state use of rural mediation centers

Eric THOR, Arizona State Univ., Tempe, Janet WERTSCH, Arizona Agriculture Mediation Inst., Phoenix, Arizona, and Shika RAWATT, Arizona State Univ., Tempe, USA

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





Tuesday, 8:30 AM–12:00 PM

Paper Session 3G ~ Sunset V

**Population Aging and Regional Impacts:
The Case of Southern California**

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

8:30–9:15

Population aging and land use

Dohyung KIM, California State Univ., and Simon CHOI, Southern
California Assoc. Governments, Los Angeles, USA

Discussant: Hsi-Hwa HU, Southern California Assoc.
Governments, Los Angeles, USA

9:15–10:00

Population aging and transportation, air quality and health

Christine BAE, Univ. Washington, Seattle, USA

Discussant: Simon CHOI, Southern California Assoc.
Governments, Los Angeles, USA

10:00–10:30, Coffee Break

10:30–11:15

**Land use and travel behavior of elderly population: Implications
for greenhouse gas emissions from transportation in the
Southern California region**

Hsi-Hwa HU, Simon CHOI, and Frank WEN, Southern California
Assoc. Governments, Los Angeles, USA

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

11:15–12:00

Population aging and public and transportation finance

Sungyop KIM, Univ. Missouri, Kansas City, and Frank WEN,
Southern California Assoc. Governments, Los Angeles, USA

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



Tuesday, 12:15–2:15 PM

Annual Banquet Luncheon

Pacific Ballroom

(For all registered and paid participants; tickets required)

Chair: Peter GORDON, 53rd WRSA President (2012–2013)

Announcements:

Rachel FRANKLIN, WRSA Executive Director
Lay James GIBSON, 39th WRSA President (1998–1999)

The 18th Annual Springer-Verlag Prize

Euijune KIM and Janet E. KOHLHASE
Editors, *The Annals of Regional Science*

The 28th Charles M. Tiebout Prize

Presented by: Robert J. STIMSON,
51st WRSA President (2010–2011)
and Chair, 2013–2014 Reading Committee

NARSC David Boyce Award

Presented by: Neil REID, Executive Director, NARSC

Presidential Address: Open Regional Science

Sergio J. REY, 55th WRSA President (2014–2015)

Discussant:

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



Tuesday, 2:30–5:45 PM

Paper Session 4A ~ Dockside Room

Transportation: Accessibility and Land Use Implications

Chair: Simon CHOI, Southern California Assoc. Governments,
Los Angeles, USA

2:30–3:15

**Using time geography as an analytical framework for measuring
accessibility in public transportation**

Bradley W. LANE, Univ. Kansas, Lawrence, USA

Discussant: Alan T. MURRAY, Arizona State Univ., Tempe,
USA

3:15–4:00

Culture and transportation systems: A case in Saudi Arabia

Tschangho John KIM, Univ. Illinois, Urbana-Champaign, USA

Discussant: Kh. Md. NAHIDUZZAMAN, King Fahd Univ.
Petroleum and Minerals, Dhahran, Saudi Arabia

4:00–4:15, Coffee Break

4:15–5:00

Rider preferences and economic values for equestrian trails

Wuyang HU, Univ. Kentucky, Lexington, Ping QING, Huazhong
Agricultural Univ., Wuhan, China, and Marie PELTON and
Angelos PAGOULATOS, Univ. Kentucky, Lexington, USA

Discussant: Marie H. WAHLSTRÖM, Royal Inst.
Technology, Stockholm, Sweden

5:00–5:45

**Reconsidering the impact of access to transit on local land
markets**

Christian L. REDFEARN, Univ. Southern California, Los Angeles,
USA

Discussant: Herman DONNER, Royal Inst. Technology,
Stockholm, Sweden



Tuesday, 2:30–5:45 PM

Paper Session 4B ~ Bay View Room

Methods and Models in Regional Science II

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

2:30–3:15

Who should control public firms: Central or local government?

Woohyung LEE and Ki-Dong LEE, Keimyung Univ., Korea

Discussant: Tomoya IDA, Oita Univ., Japan

3:15–4:00

Nonlinear von Thunen rents, a counter-argument

Larry A. BISSETT, Systems Research Group, Seattle, Washington,
USA

Discussant: Tatsuyoshi MIYAKOSHI, Hosei Univ., Japan

4:00–4:15, Coffee Break

4:15–5:00

**Economic evaluation of interregional green tea clusters: Usage of
a two-region CGE model**

Yuko AKUNE, Reitaku Univ., Chiba, Japan

Discussant: Sasidaran GOPALAN, George Mason Univ.,
Arlington, Virginia, USA

5:00–5:45

ODA and public good for input: Indochinese Peninsula

Tatsuyoshi MIYAKOSHI, Hosei Univ., Japan

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

Tuesday afternoon program continues on page 10...



Tuesday, 2:30–5:45 PM
Paper Session 4C ~ Sunset I
Remote Regions II:
Wellbeing in Remote Areas

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

2:30–3:15

Capabilities and social stratification in the Arctic

Gérard DUHAIME, Univ. Laval, Québec, Canada

Discussant: Greg POELZER, Univ. Saskatchewan, Saskatoon, Canada

3:15–4:00

The cross-border dimensions of Vuntut Gwitchin food security

David NATCHER, Univ. Saskatchewan, Saskatoon, Canada

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

4:00–4:15, *Coffee Break*

4:15–5:00

Is there a trade-off between remote living and healthy living?
Impact of remoteness on body weight

Mouhcine GUETTABI, Univ. Alaska, Anchorage, USA

Discussant: Paul MICHEL, Univ. Northern British Columbia, Prince George, Canada

5:00–5:45

Where are the babies? The importance of Indigenous babies to service planning in remote Australia

Andrew TAYLOR, Charles Darwin Univ., Darwin, Australia

Discussant: Heather HUDSON, Univ. Alaska, Anchorage, USA



Tuesday, 2:30–5:45 PM
Paper Session 4D ~ Sunset II
Energy, Environment, and Economic Performance

Chair: Matthias RUTH, Northeastern Univ., Boston, Massachusetts, USA

2:30–3:15

Encouraging sustainable coastal development with economic resilience to natural disasters

Hyun KIM, Univ. Wisconsin, Madison, USA

Discussant: Qin FAN, California State Univ., Fresno, USA

3:15–4:00

Regional economic impact of unexpected events using an SCGE model of Korea

Euijune KIM, Younghyun John KWON, and In-Hyoun SON, Seoul National Univ., Korea

Discussant: Randall W. JACKSON, West Virginia Univ., Morgantown, USA

4:00–4:15, *Coffee Break*

4:15–5:00

Is there any relationship between energy and TFP? A panel cointegration approach for Italian regions

Maria Gabriela LADU and Marta MELEDDU, Univ. Sassari, Sardinia, Italy

Discussant: Junming ZHU, Yale Univ., New Haven, USA

5:00–5:45

Hawaii's seed crop industry: Current and potential economic and fiscal contributions

Thomas LOUDAT, TAL & Associates, and Prahlad KASTURI, Radford Univ., Virginia, USA

Discussant: Hiroyuki SHIBUSAWA, Toyohashi Univ. Technology, Japan



Tuesday, 2:30–5:45 PM
Paper Session 4E ~ Sunset III
Labor Markets and Productivity

Chair: Katherine CHALMERS, California State Univ., Sacramento, USA

2:30–3:15

Labour productivity growth as panacea for ageing? How the Netherlands can keep up its level of welfare

Lourens BROERSMA, Inge NOBACK, and Jouke VAN DIJK, Univ. Groningen, The Netherlands

Discussant: Johan P. LARSSON, Jönköping International Business School, Sweden

3:15–4:00

Increasing wage gap, spatial structure and market access: Evidence from Swedish micro-data

Pardis NABAVI, Royal Inst. Technology, Stockholm, Sweden

Discussant: Michael STEINER, Univ. Graz, Austria

4:00–4:15, *Coffee Break*

4:15–5:00

International trade and local labor markets: Are foreign and domestic shocks created differently?

Mark D. PARTRIDGE, Ohio State Univ., Columbus, Dan RICKMAN and Ying TAN, Oklahoma State Univ., Stillwater, and M. Rose OLFERT, Univ. Saskatchewan, Saskatoon, Canada

Discussant: Gium Dagnachew ABATE, Aarhus Univ., Denmark

5:00–5:45

The rise of China from a U.S. economic perspective

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

Discussant: Maki KATO, Yokohama National Univ., Sendai, Japan



Tuesday, 2:30–5:00 PM
Paper Session 4F ~ Sunset IV
Urban-Rural Interactions and Interdependencies

Chair: Harvey GOLDSTEIN, MODUL Univ., Vienna

2:30–3:15

Urbanity, rurality and duality: Old forms, new forms – Swedish experiences

Mats JOHANSSON, Royal Inst. Technology, Stockholm, Sweden

Discussant: Joseph C. VON NESSEN, Univ. South Carolina, Columbia, USA

3:15–4:00

What is smart rural development?

Lucia NALDI, Pia NILSSON, Hans WESTLUND, and Sofia WIXE, Jönköping International Business School, Sweden

Discussant: Sierdjan KOSTER, Univ. Groningen, The Netherlands

4:00–4:15, *Coffee Break*

4:15–5:00

Measuring urban-rural interactions and regional success

Eveline VAN LEEUWEN and Daniel ARRIBAS-BEL, VU University, Amsterdam, The Netherlands

Discussant: Björn HÄRSMAN, Royal Inst. Technology, Stockholm, Sweden



Tuesday, 2:30–5:45 PM
Paper Session 4G ~ Sunset V
Topics in Regional Science

Chair: Pete PARCELLS, Whitman College,
 Walla Walla, Washington, USA

2:30–3:15

Market potential and distance decay—growth and decline of sectors across locations in urban regions

Johan KLAESSON and Börje JOHANSSON, Jönköping International Business School, Royal Inst. Technology, and Lund Univ., Sweden

Discussant: Stein ØSTBYE, Arctic Univ. Norway, Tromsø

3:15–4:00

Quality, regional and reputational considerations in designating wine bargains

Jon R. MILLER, Robert W. STONE, and Eric T. STUEN, Univ. Idaho, Moscow, USA

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

4:00–4:15, *Coffee Break*

4:15–5:00

Effect of tariff liberalization on Mexico's income distribution in the presence of migration

Rafael GARDUÑO-RIVERA, Centro de Investigación y Docencia Económicas, Mexico, and Kathy BAYLIS, Univ. Illinois, Urbana-Champaign, USA

Discussant: Keisuke KONDO, Kobe Univ., Japan

5:00–5:45

Industrial composition and economic stability: Implications for regional unemployment and income inequality

Danya KIM and Jangik JIN, Univ. Wisconsin, Madison, USA

Discussant: Irene BERNHARD, Royal Inst. Technology, Stockholm, Sweden



Tuesday, 6:00–7:30 PM
 Paradise Terrace
President's Reception

For all participants and accompanying persons



Wednesday, February 19

7:30 AM–12:15 PM, Registration

(Bay View / Sunset Foyer)

8:00 or 8:45 AM–12:15 PM, Concurrent Sessions:

- 5A** Migration (Dockside Room)
- 5B** American Metropolitan Economies (Bay View Room)
- 5C** Remote Regions III: Institutional Development (Sunset I)
- 5D** Spatial Econometrics (Sunset II)
- 5E** Exports and Firms (Sunset III)
- 5F** Determinants of Knowledge Production (Sunset IV)
- 5G** Issues in Urban Infrastructure and Land Use (Sunset V)

10:15–10:45 AM, Coffee Break (Sunset Deck)

12:15–1:30 PM, Lunch Break (On your own this day)

1:30–5:00 PM, Concurrent Sessions:

- 6A** Regional Aspects of Manufacturing (Dockside Room)
- 6B** All About Firms (Bay View Room)
- 6C** Remote Regions IV: The Politics of Regionalism (Sunset I)
- 6D** Network Complexity and Management (Sunset II)
- 6E** Labor Markets (Sunset III)
- 6F** Migration and Human Capital (Sunset IV)

3:00–3:30 PM, Coffee Break (Sunset Deck)

(5:00 PM, End of Conference)



Wednesday, 8:00 AM–12:15 PM
Paper Session 5A ~ Dockside Room
Migration

Chair: Suzanne WITHERS, Univ. Washington, Seattle, USA
 8:00–8:45

Migration patterns of the Hispanic population in Nevada during the recent economic crisis

Jaewon LIM, John TUMAN, and David DAMORE, Univ. Nevada, Las Vegas, USA

Discussant: Lina AHLIN, Lund Univ., Sweden

8:45–9:30

Canada's multiculturalism and domestic migration

Michael R. BETZ, Ohio State Univ., Columbus, M. Rose OLFERT, Univ. Saskatchewan, Saskatoon, Canada, and Mark D. PARTRIDGE, Ohio State Univ., Columbus, USA

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

9:30–10:15

A method for indirectly estimating historical U.S. Migration patterns: 1850–1880

Jani LITTLE and Andrei ROGERS, Univ. Colorado, Boulder, USA

Discussant: Martin ANDERSSON, Lund Univ., Sweden

10:15–10:45, *Coffee Break*

10:45–11:30

Is the tied returnee male or female? The trailing spouse thesis reconsidered

Jan AMCOFF, Uppsala Univ., and Thomas NIEDOMYSL, Lund Univ., Sweden

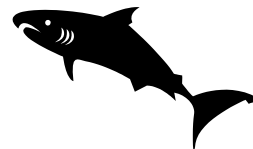
Discussant: Matloob PIRACHA, Univ. Kent, United Kingdom

11:30–12:15

Migration as an option: Repeat migration, "foresight," and the primary migration decision

Jeremiah ALLEN, Univ. Lethbridge, Alberta, Canada

Discussant: Alessandra FAGGIAN, Ohio State Univ., Columbus, USA



Wednesday morning program continues on page 12...



Wednesday, 8:00 AM–12:15 PM

Paper Session 5B ~ Bay View Room

American Metropolitan Economies

(organized by Neil REID, Univ. Toledo, Ohio, USA)

Chair: Terry CLOWER, Univ. North Texas, Denton, USA

8:00–8:45

“Prometheus Unbound”: A spatial and economic analysis of the contemporary American megalopolis

John I. CARRUTHERS and Raymond VON CULIN, George Washington Univ., Washington, D.C., USA

Discussant: Francisco ROWE, Univ. Queensland, Brisbane, Australia

8:45–9:30

The current health of metropolitan labor markets in the United States

Gordon F. MULLIGAN, Univ. Arizona, Tucson, and Neil REID and Michael S. MOORE, Univ. Toledo, Ohio, USA

Discussant: Giovanni SULIS, Univ. Cagliari, Sardinia, Italy

9:30–10:15

Inter-metropolitan location patterns of craft brewing in the United States

Ralph B. McLAUGHLIN, San Jose State Univ., California, and Neil REID and Michael S. MOORE, Univ. Toledo, Ohio, USA

Discussant: Ran LI, Univ. Arizona, Tucson, USA

10:15–10:45, Coffee Break

10:45–11:30

Intra-metropolitan location of brewpubs in American metropolitan areas

Michael S. MOORE, Univ. Toledo, Ohio, USA

Discussant: Özge ÖNER, Jönköping International Business School, Sweden

11:30–12:15

Piece-by-Piece: An analysis of low-rise redevelopment in Seattle

Andy KRAUSE, Univ. Washington, Seattle, USA

Discussant: Fredrik KOPSCH, Royal Inst. Technology, Stockholm, Sweden



Wednesday, 8:45 AM–12:15 PM

Paper Session 5C ~ Sunset I

Remote Regions III:

Institutional Development

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

8:45–9:30

Northern capacity building: Creating opportunity and expertise for Northern Saskatchewan

Greg POELZER, Univ. Saskatchewan, Saskatoon, Canada

Discussant: Pierre-Marcel DESJARDINS, Univ. Moncton, New Brunswick, Canada

9:30–10:15

Let 100 subsidiaries grow: The proliferation of Alaska Native Corporation noncompetitive contracting

Greg PROTASEL, Univ. Alaska, Anchorage, USA

Discussant: Bonita BEATTY, Univ. Saskatchewan, Saskatoon, Canada

10:15–10:45, Coffee Break

10:45–11:30

Broadband in remote Indigenous regions: An analysis of policies in Alaska and Northern Canada

Heather HUDSON, Univ. Alaska, Anchorage, USA

Discussant: Wayne EDWARDS, Middlebury College, Vermont, USA

11:30–12:15

Social entrepreneurship and Indigenous people

Paul MICHEL, Univ. Northern British Columbia, Prince George, Canada

Discussant: Lassi HEININEN, Univ. Lapland, Rovaniemi, Finland



Wednesday, 8:45 AM–12:15 PM

Paper Session 5D ~ Sunset II

Spatial Econometrics

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

8:45–9:30

A spatial model of school district open enrollment choice

David BRASINGTON, Univ. Cincinnati, Ohio, Alfonso FLORES-LAGUNES, State Univ. New York, Binghamton, and Ledia GUCI, Bureau Economic Analysis, USA

Discussant: Xinyue YE, Kent State Univ., Ohio, USA

9:30–10:15

Macroeconomic volatility and growth: A spatial econometrics perspective

Girum Dagnachew ABATE, Aarhus Univ., Denmark

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

10:15–10:45, Coffee Break

10:45–11:30

Spatial dependence in regional business cycles: Evidence from Mexican states

Keisuke KONDO, Kobe Univ., Japan

Discussant: Hee Hwa MIN, Cornell Univ., Ithaca, New York, USA

11:30–12:15

Estimating standard errors in spatial panel models with time varying spatial correlation

Frank DAVENPORT, Univ. California, Santa Barbara, USA

Discussant: Sergio J. REY, Arizona State Univ., Tempe, USA



Wednesday, 8:00 AM–12:15 PM

Paper Session 5E ~ Sunset III

Exports and Firms

Chair: Charlie KARLSSON,

Jönköping International Business School, Sweden

8:00–8:45

Welfare analysis of export – Platform FDI with endogenous wage determination

Ki-Dong LEE and Woohyung LEE, Keimyung Univ., Daegu, Korea

Discussant: Charlie KARLSSON, Jönköping International Business School, Sweden

8:45–9:30

How to finance innovation persistently? A panel data study on exporting firms across regions

Hans LÖÖF and Pardis NABAVI, Royal Inst. Technology, Stockholm, Sweden

Discussant: Marta MELEDDU, Univ. Sassari, Sardinia, Italy

9:30–10:15

Broadening or jumping? An analysis of the first export market of EU firms

Anna Maria PINNA, Vania Manuela LICIO, and Rinaldo BRAU, Univ. Cagliari, Sardinia, Italy

Discussant: Zuzana MACUCHOVA, Dalarna Univ., Falun, Sweden

10:15–10:45, *Coffee Break*

10:45–11:30

Diversity in local labour markets and the impact on export varieties

Tina WALLIN, Jönköping International Business School, Sweden

Discussant: Juan Julio GUTIERREZ, George Mason Univ., Arlington, Virginia, USA

11:30–12:15

Internal and external knowledge sources of new export products

Börje JOHANSSON and Peter WARDA, Jönköping International Business School, Sweden

Discussant: Afshan DAR-BRODEUR, Statistics Canada, Ottawa



Wednesday, 8:45–11:30 AM

Paper Session 5F ~ Sunset IV**Determinants of Knowledge Production**

Chair: Hans WESTLUND, Royal Inst. Technology, Stockholm and Jönköping International Business School, Sweden

8:45–9:30

The ecological conditions conducive for the generation of university spin-offs: A case study of Vienna

Harvey GOLDSTEIN, MODUL Univ., Vienna, Verena PEER, Univ. Life Sciences and Natural Resources, Vienna, and Sabine SEDLACEK, MODUL, Univ., Vienna, Austria

Discussant: Hans WESTLUND, Royal Inst. Technology, Stockholm and Jönköping International Business School, Sweden

9:30–10:15

The relationship between cultural diversity and scientific knowledge creation: An empirical analysis

Maki KATO, Yokohama National Univ., and Asao ANDO, Tohoku Univ., Sendai, Japan

Discussant: Pia NILSSON, Jönköping International Business School, Sweden

10:15–10:45, *Coffee Break*

10:45–11:30

The role of federal funding and interregional patent citation on knowledge production across U.S. counties

Sandy DALL'ERBA and Dongwoo KANG, Univ. Arizona, Tucson, USA

Discussant: Danya KIM, Univ. Wisconsin, Madison, USA



Wednesday, 8:00 AM–12:15 PM

Paper Session 5G ~ Sunset V**Issues in Urban Infrastructure and Land Use**

Chair: Kingsley E. HAYNES, George Mason Univ., Arlington, Virginia, USA

8:00–8:45

The effects of urban heat islands on racial and income distribution: A case study in Houston

Qisheng PAN, Texas Southern Univ., Houston, USA

Discussant: Pengyu ZHU, Boise State Univ., Idaho, USA

8:45–9:30

Characterizing the spatial and temporal patterns of farmers' market visits

James MACK and Daoqin TONG, Univ. Arizona, Tucson, USA

Discussant: Kingsley E. HAYNES, George Mason Univ., Arlington, Virginia, USA

9:30–10:15

Accessibility to public transportation in Obregon, Mexico

Liz Ileana RODRÍGUEZ-GÁMEZ, Colegio de Sonora, Hermosillo, Mexico

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

10:15–10:45, *Coffee Break*

10:45–11:30

Measuring food accessibility and the role of independent stores in the greater Tucson area, Arizona

Katharine Y. BAO, Daoqin TONG, and David A. PLANE, Univ. Arizona, Tucson, USA

Discussant: Bradley W. LANE, Univ. Kansas, Lawrence, USA

11:30–12:15

Organic spatialization of the third places: Cognitive planning for urban cohesion

Kh. Md. NAHIDUZZAMAN, King Fahd Univ. Petroleum and Minerals, Dhahran, Saudi Arabia

Discussant: Michael FARRELL, Univ. Québec, Trois-Rivières, Canada

Wednesday, 12:15–1:30 PM

Lunch Break (On your own this day)

Wednesday, 1:30–5:00 PM

Paper Session 6A ~ Dockside Room**Regional Aspects of Manufacturing**

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

1:30–2:15

The determinants of agglomeration redux

Kristian BEHRENS, Univ. Québec, Montréal, Mark BROWN, Statistics Canada, Ottawa, and Théophile BOUGNA, Univ. Québec, Montréal, Canada

Discussant: Peter WARDA, Jönköping International Business School, Sweden

2:15–3:00

Innovation heterogeneity in manufacturing establishments

Juan Julio GUTIERREZ, George Mason Univ., Arlington, Virginia, USA

Discussant: Michael S. MOORE, Univ. Toledo, Ohio, USA

3:00–3:30, *Coffee Break*

3:30–4:15

Productivity convergence in manufacturing: A state-by-state comparison

Timothy F. SLAPER, Indiana Univ., Bloomington, USA

Discussant: Neil REID, Univ. Toledo, Ohio, USA

4:15–5:00

Location and technological change: Impacts of China's energy saving policy on manufacturing industries

Junming ZHU, Yale Univ., New Haven, Connecticut, USA

Discussant: Mark BROWN, Statistics Canada, Ottawa

Wednesday afternoon program continues on page 14...



Wednesday, 1:30–5:00 PM
Paper Session 6B ~ Bay View Room
All About Firms

Chair: Börje JOHANSSON, Jönköping International Business School, Royal Inst. Technology, and Lund Univ., Sweden

1:30–2:15

Returns to location in retail: Investigating the relevance of market size and regional hierarchy

Özge ÖNER, Jönköping International Business School, Sweden
 Discussant: Gordon F. MULLIGAN, Univ. Arizona, Tucson, USA

2:15–3:00

Networks, proximities and inter-firm knowledge exchanges

Stefano USAI, Emanuela MARROCU, and Raffaele PACI, Univ. Cagliari, Sardinia, Italy

Discussant: Hans LÖÖF, Royal Inst. Technology, Stockholm, Sweden

3:00–3:30, *Coffee Break*

3:30–4:15

Predicting entry of Swedish wholesale firms into local markets

Johan HÅKANSSON, Zuzana MACUCHOVA, and Niklas RUDHOLM, Dalarna Univ., Falun, Sweden

Discussant: Ki-Dong LEE, Keimyung Univ., Korea

4:15–5:00

Market potential and start-up size

Johan KLAESSON and Charlie KARLSSON, Jönköping International Business School, Sweden

Discussant: Dongwoo KANG, Univ. Arizona, Tucson, USA



Wednesday, 1:30–4:15 PM
Paper Session 6C ~ Sunset I
Remote Regions IV:
The Politics of Regionalism

Chair: Andrew TAYLOR, Charles Darwin Univ., Darwin, Australia

1:30–2:15

Aboriginal engagement: Making northern politics work for Aboriginal communities

Bonita BEATTY, Univ. Saskatchewan, Saskatoon, Canada
 Discussant: Matthew REIMER, Univ. Alaska, Anchorage, USA

2:15–3:00

We hate Seattle: Metropolitan dominance and the control of Alaska

Terrence COLE, Univ. Alaska, Fairbanks, USA
 Discussant: Andrew TAYLOR, Charles Darwin Univ., Darwin, Australia

3:00–3:30, *Coffee Break*

3:30–4:15

Sovereignty and national borders in the globalized Arctic

Lassi HEININEN, Univ. Lapland, Rovaniemi, Finland
 Discussant: Lee HUSKEY, Univ. Alaska, Anchorage, USA



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Wednesday, 1:30–5:00 PM
Paper Session 6D ~ Sunset II

Network Complexity and Management

Chair: Richard CHURCH, Univ. California, Santa Barbara, USA

1:30–2:15

Weighted network Voronoi and urban streets

Xinyue YE, Kent State Univ., Ohio, USA

Discussant: Richard CHURCH, Univ. California, Santa Barbara, USA

2:15–3:00

A school bus routing problem enabling stop sharing in urban area

Ran LI and Daoqin TONG, Univ. Arizona, Tucson, USA

Discussant: Osamu SUGIMOTO, Tohoku Univ., Japan

3:00–3:30, *Coffee Break*

3:30–4:15

The shortest covering path problem: A new perspective and model

Timothy NIBLETT and Richard CHURCH, Univ. California, Santa Barbara, USA

Discussant: Katharine Y. BAO, Univ. Arizona, Tucson, USA

4:15–5:00

Optimization of warehouse location for an e-commerce startup using Excel solver

Osamu SUGIMOTO, Tohoku Univ., Sendai, Michael FLYNN, Stanford Univ., Palo Alto, California, and Asao ANDO, Tohoku Univ., Sendai, Japan

Discussant: Frank DAVENPORT, Univ. California, Santa Barbara, USA



Wednesday, 1:30–5:00 PM
Paper Session 6E ~ Sunset III

Labor Markets

Chair: Euijune KIM, Seoul National Univ., Korea

1:30–2:15

Immigrant status and commute distance: An exploratory study based on Toronto's commuter shed

K. Bruce NEWBOLD and Darren SCOTT, McMaster Univ., Hamilton, Ontario, Canada

Discussant: Tina WALLIN, Jönköping International Business School, Sweden

2:15–3:00

Micro and macro drivers of long-distance commuting in Chile: The role of spatial distribution of economic activities and population

Francisco ROWE, Univ. Queensland, Brisbane, Australia

Discussant: Ralph B. McLAUGHLIN, San Jose State Univ., California, USA

3:00–3:30, *Coffee Break*

3:30–4:15

On the potential interaction between labour market institutions and immigration policies

Claudia CIGAGNA and Giovanni SULIS, Univ. Cagliari, Sardinia, Italy

Discussant: Liz Ileana RODRÍGUEZ-GÁMEZ, Colegio de Sonora, Hermosillo, Mexico

4:15–5:00

The effect of access to employment opportunities on the labor market outcomes

Jangik JIN and Kurt PAULSEN, Univ. Wisconsin, Madison, USA

Discussant: Rachel S. FRANKLIN, Brown University, Providence, Rhode Island, USA



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55 th	2014–2015	Serge Rey

Wednesday afternoon program concludes on page 16...



Wednesday, 1:30–5:00 PM
Paper Session 6F ~ Sunset IV
Migration and Human Capital

Chair: Andrei ROGERS, Univ. Colorado, Boulder, USA
 1:30–2:15

Spatial sorting of human capital—a study of university graduates

Lina AHLIN and Martin ANDERSSON, Lund Univ., and Per THULIN, Royal Inst. Technology, Sweden

Discussant: Norman MALDONADO, Ohio State Univ., Columbus, USA

2:15–3:00

Dutch graduates' first decade in the labour market: A longitudinal analysis

Viktor VENHORST and Jouke VAN DIJK, Univ. Groningen, The Netherlands

Discussant: M. Rose OLFERT, Univ. Saskatchewan, Saskatoon, Canada

3:00–3:30, *Coffee Break*

3:30–4:15

Immigrants' educational mismatch and the penalty of over-education

Eleni KALFA and Matloob PIRACHA, Univ. Kent, United Kingdom

Discussant: Jeremiah ALLEN, Univ. Lethbridge, Alberta, Canada

4:15–5:00

Migration, strategic behavior and children's human capital in Mexico

Norman MALDONADO, Ohio State Univ., Columbus, USA

Discussant: Thomas NIEDOMYSL, Lund Univ., Sweden

(Conference ends at 5:00 PM)

**Many Thanks to the 2013–2014
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7th	Vacation Village Hotel, San Diego, CA
6th	(Meeting site unknown), Las Vegas, NV
5th	Santa Barbara Inn, Santa Barbara, CA
4th	(1965 meeting site and dates unknown)
3rd	Student Union, Arizona State Univ., Tempe, AZ
2nd	Student Union, Univ. Oregon, Eugene, OR
1st	Univ. California, Berkeley, Berkeley, CA



Program Participant Locator

Session assignments are listed following each participant's name:

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

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

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

OS = Opening Session on Sunday Afternoon

WB = WRSA Board Meeting on Monday morning

GO = Getis-Ord Lecture in Spatial Analysis on Monday afternoon

AL = Annual Banquet Luncheon on Tuesday

Roman typeface (regular font) indicates a paper author, panelist, or speaker; **Boldface** indicates a session chair; *Italics* indicate a paper discussant.

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A WRSA Homecoming in 2015...

Next year, when the short days, the snow, and the cold have got you down, come join us in Tucson, Arizona (erstwhile home of the WRSA) for our 54th Annual Meeting. Our 2015 conference will be held February 15–18 at Loews Ventana Canyon Resort, up in the foothills of the Catalina mountains—with easy access to Tucson’s urban amenities, as well as the sort of desert wilderness southern Arizona is known for. For next year’s meeting we’ve negotiated a room rate of \$189/night (plus taxes), which includes complimentary parking, spa access, and room internet. If you’ve never experienced Tucson and the Sonoran desert, you’re in for quite a treat!

As always, keep in mind the October 15 deadline for paper submissions. It’s never too early to start planning for next year’s meeting! Further details will be forthcoming in the Spring/Summer 2014 WRSA *Newsletter*.

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