



# Western Regional Science Association

## 54<sup>th</sup> Annual Meeting

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### Loews Ventana Canyon Resort, Tucson, Arizona

### February 15–18, 2015

Welcome to the 54<sup>th</sup> annual meeting of the WRSA! Welcome, too, to Tucson—former longtime home of the WRSA. It's been a while since we met in southern Arizona and it's good to be back.

These introductory paragraphs serve to provide some helpful information regarding the meeting schedule. Read on! First, please be sure to double-check your program assignments. Unfortunately, late program changes are unavoidable and that paper you were assigned to discuss may have been moved or even canceled. An index to all participants is at the end of this program, and should help you locate your duties. The WRSA prides itself on well-run sessions. Please take a look at our session “format and guidelines” on page 7 for some helpful suggestions.

Now for the really key reminders: along with your meeting program, your registration packet contained your name badge and a set of colored tickets, which will admit you to Tuesday’s luncheon and, just as important, will be good for one free drink at each reception. Don’t lose them!

We have another busy program in store for you this year. The meeting opens on Sunday afternoon with the 5<sup>th</sup> Annual Lay James Gibson Plenary Opening Session, given this year by Vera Pavlakovich-Kochi and George Hammond. After the plenary, please join us for the Welcoming Reception on the Cascade Terrace. Use your lilac ticket for a first drink!

Monday morning’s sessions start at 8 AM, leaving time for the Getis-Ord Lecture in Spatial Analysis at 11:45 AM. This year’s speaker is Harry Kelejian, noted spatial econometrician and longtime WRSA member. Please plan to attend! Light snacks will be available before the plenary.

Tuesday is another full day, with sessions beginning at 8:30 AM and then the Annual Banquet Luncheon at 12:15, where Bruce Newbold will give his Presidential Address and the Tiebout and Springer Prizes will be awarded. Use your gold ticket to gain admittance to the luncheon in Salon B. No ticket, no admission, no exceptions. The President’s Reception is at 6:15 PM on the Kiva Patio (and in Kiva A should the weather refuse to cooperate). Your light green ticket will be good for a first drink. Wednesday’s sessions start at 8:45 AM, giving you a little extra time to get your day started.

All the best for a memorable and fun meeting. May the sessions be stimulating, the company good, and the weather perfect. And, of course, may you also find time to get out and see the sites—Tucson is a wonderful and special part of the world!



#### Sunday, February 15

**2:00–6:00 PM, Registration** (Grand Ballroom Foyer)  
**3:30–5:15 PM, Plenary Opening Session** (Catalina Ballroom)  
**5:30–7:00 PM, Welcoming Reception** (Cascade Terrace)

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#### Sunday, 3:30–5:15 PM

Catalina Ballroom



#### The 5<sup>th</sup> Annual Lay James Gibson Plenary Opening Session

Chair: Lay J. GIBSON, Univ. Arizona, Tucson, USA  
and 39<sup>th</sup> WRSA President (1998–1999)

**“Desert Bloom? Perspectives on Arizona’s Border Trade,  
the Great Recession, and the Little Recovery”**  
Vera PAVLAKOVICH-KOCHI and George W. HAMMOND,  
Univ. Arizona, Tucson, USA

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



#### Sunday, 5:30–7:00 PM Welcoming Reception

Cascade Terrace

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



## Monday, February 16

7:30 AM–1:15 PM (and 2:15–5:45 PM),

**Registration** (Grand Ballroom Foyer)

8:00 or 8:45–11:30 AM, **Concurrent Sessions:**

- 1A Input-Output Applications (Coronado)
- 1B Transportation I (Rincon)
- 1C Segregation and Spatial Inequality (Santa Rita)
- 1D Disastrous Regional Science I (Salon D)
- 1E Innovation and Development (Salon E)
- 1F The Keith Schwer Memorial Western States Economic Outlook (Salon F)
- 1G Social Mobility and Poverty (Sabino)

9:30–10:00 AM, **Coffee Break** (Grand Ballroom Foyer)

11:45 AM–1:00 PM,

**3<sup>rd</sup> Annual Getis-Ord Lecture in Spatial Analysis**  
(Catalina Ballroom)

1:00–2:15 PM, **Lunch Break** (On your own this day)

2:15–5:45 PM, **Registration Continues**  
(Grand Ballroom Foyer)

2:15–5:45 PM, **Concurrent Sessions:**

- 2A Input-Output Techniques (Coronado)
- 2B Transportation II (Rincon)
- 2C Entrepreneurship and New Firms (Santa Rita)
- 2D Disastrous Regional Science II (Salon D)
- 2E Sources and Impacts of Innovation (Salon E)

3:45–4:15 PM, **Coffee Break** (Grand Ballroom Foyer)

4:15–5:45 PM, **WRSA Board Meeting** By invitation only  
(Sabino)



### Monday 8:00–11:30 AM Paper Session 1A ~ Coronado Input-Output Applications

Chair: Randall JACKSON, West Virginia Univ.,  
Morgantown, USA

8:00–8:45

**The economic impact of a new solar power plant in Arizona: An IO analysis by JEDI and IMPLAN**

Sandy DALL ERBA and Jinwon BAE, Univ. Arizona, Tucson, USA

Discussant: Fernando DEPAOLIS, Middlebury College-Monterey Inst., California, USA

8:45–9:30

**National and regional economic consequences of an influenza outbreak in the United States**

Fynnwin PRAGER and Dan WEI, Univ. Southern California, Los Angeles, Zhenhua CHEN, George Mason Univ., Arlington, Virginia, Adam Z. ROSE, Univ. Southern California, Los Angeles, USA

Discussant: Kijin KIM, Univ. Illinois, Urbana-Champaign, USA

*Coffee Break: 9:30–10:00*

10:00–10:45

**An input-output analysis of the impact of federally-funded investments in science, research and technology in Arizona**  
Jaewon LIM, Univ. Nevada, Las Vegas, Sandy DALL ERBA, Univ. Arizona, Tucson, USA

Discussant: Stuart MCINTYRE, Univ. Strathclyde, Glasgow, United Kingdom

10:45–11:30

**An empirical analysis of domestic raw and intermediate input use in food industry in Korea: An input-output model approach**  
Donghwan AN, Kwansoo KIM, and Yongjoon KIM, Seoul National Univ., Korea

Discussant: Bokjin ROH, Univ. Arizona, Tucson, USA



### Monday 8:45–11:30 AM Paper Session 1B ~ Rincon Transportation I

Chair: Russell W. MILLS, Bowling Green State Univ., Ohio, USA  
8:45–9:30

**Forecasting urban travel: Past, present and future**

David BOYCE, Northwestern Univ., Evanston, Illinois, USA, Huw WILLIAMS, Cardiff Univ., United Kingdom

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

*Coffee Break: 9:30–10:00*

10:00–10:45

**The effects of urban spatial structure on travel behavior and transportation energy efficiency in Korea**

Kichan NAM, Korea Research Inst. Human Settlements, and Daeyoung KWON and Brian H.S. Hong Sok KIM, Seoul National Univ., Korea

Discussant: Russell W. MILLS, Bowling Green State Univ., Ohio, USA

10:45–11:30

**The influence of travel behavior on the acceptance of commercially available alternative fueled vehicles: Evidence from major U.S. cities**

Bradley W. LANE and Rachel M. KRAUSE, Univ. of Kansas, Lawrence, Sanya CARLEY, Indiana Univ., Bloomington, and John D. GRAHAM, Indiana Univ., Bloomington, USA

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



### Monday 8:00–11:30 AM Paper Session 1C ~ Santa Rita Segregation and Spatial Inequality

Chair: Waldo R. TOBLER, Univ. California, Santa Barbara, USA  
8:00–8:45

**Measuring segregation using patterns of daily travel behavior: A social interaction based model of exposure**

Steven FARBER, Univ. Toronto, Scarborough, Canada, Tijs NEUTENS, Univ. Ghent, Belgium, and Morton O'KELLY and Harvey J. MILLER, Ohio State Univ., Columbus, USA

Discussant: William A. CLARK, Univ. California, Los Angeles, USA

8:45–9:30

***The anatomy of declining racial segregation: Large U.S. metropolitan areas, 1970–2009***

Janice Fanning MADDEN, Univ. Pennsylvania, Philadelphia, USA  
 Discussant: Christian REDFEARN, Univ. Southern California, Los Angeles, USA

Coffee Break: 9:30–10:00

10:00–10:45

***There goes the neighborhood: Does tipping exist amongst income groups?***

Thom MALONE, Univ. Southern California, Los Angeles, USA  
 Discussant: Richard RIJNKS, Univ. Groningen, The Netherlands

10:45–11:30

***Comparative spatial inequality dynamics: The case of Mexico and the United States***

Serge REY, Arizona State Univ., Tempe, USA, Myrna L. SASTRÉ GUTIÉRREZ, Univ. Autónoma de Coahuila, Mexico  
 Discussant: Mark BROWN, Statistics Canada, Ottawa



Monday 8:00–11:30 AM

***Paper Session 1D ~ Salon D  
Disastrous Regional Science I***

Chair: Cameron SPEIR, National Marine Fisheries Service, USA  
 8:00–8:45

***Tropical and extratropical cyclone damages under climate change***

Matthias RUTH, Northeastern Univ., Boston, USA  
 Discussant: Takahisa YOKOI, Tohoku Univ., Japan

8:45–9:30

***The day after the disaster: Forced migration and income loss***

Seong Do YUN and Brigitte Susanne WALDORF, Purdue Univ., West Lafayette, Indiana, USA  
 Discussant: Hyun KIM, Univ. Wisconsin, Madison, USA

Coffee Break: 9:30–10:00

10:00–10:45

***The game-theoretic national interstate economic model: An integrated framework to quantify the economic impacts of cyber-terrorist behavior***

JiYoung PARK and Ha HWANG, Univ. Buffalo, New York, USA, and Dongin CHO, Sungkyunkwan Univ., Seoul, Korea

Discussant: Mylinh HUANG, Univ. Southern California, Los Angeles, USA

10:45–11:30

***China, the U.S. and climate change***

Eric J. HEIKKILA, Univ. Southern California, Los Angeles, USA  
 Discussant: Kh Md NAHIDUZZAMAN, King Fahd Univ. Petroleum and Minerals, Dhahran, Saudi Arabia

***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*. Two of the three coeditors, Martin Andersson and Janet Kohlhase, are here in Tucson and will be happy to discuss potential submissions.



Monday 8:00–11:30 AM

***Paper Session 1E ~ Salon E******Innovation and Development***

Chair: Jon R. MILLER, Univ. Idaho, Moscow, USA  
 8:00–8:45

***Spatial and organizational dimensions of the network:  
Hybridization between management science and economic geography***

Lucian Ion CEAPRAZ, Maryem CHERNI, and Gaelle KOTBI, Polytechnic Inst. LaSalle, Beauvais, France

Discussant: Tina WALLIN, Jönköping International Business School, Sweden

8:45–9:30

***ICT and the spatial evolution of mature cities***

Danny CZAMANSKI, Technion - Israel Inst. Technology

Discussant: Sofia WIXE, Jönköping International Business School, Sweden

Coffee Break: 9:30–10:00

10:00–10:45

***The significance of cyber-space for urban agglomerations: A review of impacts of digital data systems on smart cities***

Peter NIJKAMP, Karima KOURTIT, and John STEENBRUGGEN, VU Univ., Amsterdam, The Netherlands

Discussant: Charlie KARLSSON, Jönköping International Business School, Sweden

10:45–11:30

***The successful city needs both: Diversity and specialization in city productivity***

Martin ANDERSSON, Lund Univ., Johan P. LARSSON, Jönköping International Business School, and Joakim LUNDBLAD, Lund Univ., Sweden

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



Monday 8:00–11:30 AM

***Panel Session 1F ~******The Keith Schwer******Memorial Western States Economic Outlook***

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

***Western States Overview***

Dennis HOFFMAN, Arizona State Univ., Tempe, USA

***Arizona***

George HAMMOND, Univ. Arizona, Tucson, USA

***Colorado***

Richard WOBBEKIND, Univ. Colorado, Boulder, USA

Coffee Break: 9:30–10:00

***Montana***

Paul POLZIN, Univ. Montana, Missoula, USA

***Nevada***

Constant TRA, Univ. Nevada, Las Vegas, USA

***New Mexico***

Jeff MITCHELL, Univ. New Mexico, Albuquerque, USA

***Washington***

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

Monday morning program continues on page 4...



*Monday 8:00–11:30 AM*  
**Paper Session 1G ~**  
**Social Mobility and Poverty**

- Chair: SeongWoo LEE, Seoul National Univ., Korea  
*8:00–8:45*  
**From rags to riches in Oscarian Norway? The urban revolution and social mobility in 19th century Scandinavia**  
 Sindre MYHR and Mikko MOILANEN, Univ. Tromsø, and Stein ØSTBYE, Uit - The Arctic Univ. Norway  
 Discussant: Özge ÖNER, Jönköping International Business School, Sweden  
*8:45–9:30*  
**The effect of time limits on welfare dependence: Assessing the intergenerational transmission and duration of participation in the Temporary Assistance for Needy Families program**  
 Clare CHO, Ohio State Univ., Columbus, USA  
 Discussant: Sindre MYHR, Univ. Tromsø, Norway  
*Coffee Break: 9:30–10:00*  
*10:00–10:45*  
**Analyzing welfare policy orientations using supplemental welfare perception data**  
 Deokho CHO, Daegu Univ., Korea  
 Discussant: Maki KATO, Yokohama National Univ., Japan  
*10:45–11:30*  
**Arkansas poverty index**  
 Melody MULDROW, Univ. Arkansas, Little Rock, USA  
 Discussant: Timothy SLAPER, Indiana Univ., Bloomington, USA

*Monday 11:45 AM–1:00 PM*  
**Catalina Ballroom**

**3rd Annual**  
**Getis-Ord Lecture in Spatial Analysis**

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

- Issues Relating to Spatial Models**  
 Harry KELEJIAN, Univ. Maryland, College Park, USA  
 Discussants:  
 Raymond J.G.M. FLORAX, Purdue Univ., West Lafayette, Indiana, USA  
 Henk FOLMER, Univ. Groningen, The Netherlands

*Light snacks will be available before and after the talk.*

*Monday, 1:00–2:15 PM*  
**Lunch Break** (On your own this day)



*Monday 2:15–5:45 PM*  
**Paper Session 2A ~ Coronado**  
**Input-Output Techniques**

- Chair: Vera PAVLAKOVICH-KOCHI, Univ. Arizona, Tucson, USA  
*2:15–3:00*  
**Estimating the economic impact of natural disasters by input-output: Literature review, methodology and possible extensions**  
 Bokjin ROH and Sandy DALL ERBA, Univ. Arizona, Tucson, USA  
 Discussant: Fynnwin PRAGER, Univ. Southern California, Los Angeles, USA  
*3:00–3:45*  
**Toward consistent cross-hauling estimation for input-output regionalization**  
 Christa Dean COURT, MRIGlobal, Morgantown, West Virginia, and Randall JACKSON, West Virginia Univ., Morgantown, USA  
 Discussant: Sandy DALL ERBA, Univ. Arizona, Tucson, USA  
*Coffee Break: 3:45–4:15*  
*4:15–5:00*  
**The extended regional econometric input-output model with heterogeneous household demand system**  
 Kijin KIM, Univ. Illinois, Urbana-Champaign, USA  
 Discussant: Donghwan AN, Seoul National Univ., Korea  
*5:00–5:45*  
**Applying network analysis techniques (NAT) to input-output (I-O) modeling**  
 Fernando DEPAOLIS, Middlebury College-Monterey Inst., California, USA  
 Discussant: Jaewon LIM, Univ. Nevada, Las Vegas, USA



*Monday 2:15–5:45 PM*  
**Paper Session 2B ~ Rincon**  
**Transportation II**

Chair: David BOYCE, Northwestern Univ., Evanston, Illinois, USA

- 2:15–3:00*  
**Effects of airline industry changes on small and non-hub airports**  
 Michael C. CARROLL and Russell W. MILLS, Bowling Green State Univ., Ohio, USA  
 Discussant: Yusuke TERAJI, Tezukayama Univ., Nara, Japan  
*3:00–3:45*  
**Price competition of airports and its effect on the airline network when the domestic trip is present**  
 Yusuke TERAJI, Tezukayama Univ., Nara, Japan  
 Discussant: Dominique A. BOUF, Univ. Lumière Lyon 2, France  
*Coffee Break: 3:45–4:15*

4:15–5:00

***Spatial equity of high speed train: The example of France***

Dominique A. BOUF, Univ. Lumière Lyon 2, France

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

5:00–5:45

***From local to regional focus: Sustainable urban form for VMT and GHG emissions reduction***

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

Discussant: Yiming WANG, Univ. College London, United Kingdom



Monday 2:15–5:00 PM

***Paper Session 2C ~ Santa Rita  
Entrepreneurship and New Firms***Chair: George W. HAMMOND, Univ. Arizona, Tucson, USA  
2:15–3:00***Market potential, start-up size and the survival of new firms***

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

Discussant: Deokho CHO, Daegu Univ., Korea

3:00–3:45

***Regional determinants of self-employment in the retail and wholesale sector in Sweden***

Therese NORMAN, Jönköping International Business School, Sweden

Discussant: Eunok IM, Univ. Southern California, Los Angeles, USA

Coffee Break: 3:45–4:15

4:15–5:00

***Economic restructure posed by ICT innovation: The case of Japan***

Osamu SUGIMOTO, Keio Univ., Michael FLYNN, Stanford Univ., Palo Alto, California, USA, Jun MURAI, Keio Univ., and Asao ANDO, Tohoku Univ., Japan

Discussant: George W. HAMMOND, Univ. Arizona, Tucson, USA



Monday 2:15–5:45 PM

***Paper Session 2D ~ Salon D  
Disastrous Regional Science II***

Chair: Constant TRA, Univ. Nevada, Las Vegas, USA

2:15–3:00

***Considering disaster vulnerability and resiliency: The case of hurricane effects on tourism-based economies***

Hyun KIM, Univ. Wisconsin, Madison, USA

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

3:00–3:45

***Multi-criteria analysis in climate change adaptation decision making: A conceptual framework for Can Tho city in Vietnam***

Mylinh HUANG, Univ. Southern California, Los Angeles, USA

Discussant: Matthias RUTH, Northeastern Univ., Boston, USA

Coffee Break: 3:45–4:15

4:15–5:00

***Flood induced vulnerability in strategic plan making process: A retrospective review***

Kh Md NAHIDUZZAMAN, Adel S. ALDOSARY, and Muhammad T. RAHMAN, King Fahd Univ. Petroleum and Minerals, Dhahran, Saudi Arabia

Discussant: Ha HWANG, Univ. Buffalo, New York, USA  
5:00–5:45***Impact of the risk of building collapse on land transaction prices: Spatial model analysis of data from metropolitan Tokyo before and after the Great East Japan Earthquake***

Takahisa YOKOI, Tohoku Univ., and Haruhisa ISHIZUKA, Japan Real Estate Inst.

Discussant: JiYoung PARK, Univ. Buffalo, New York, USA



Monday 2:15–5:45 PM

***Paper Session 2E ~ Salon E  
Sources and Impacts of Innovation***Chair: Danny CZAMANSKI, Technion - Israel Inst. Technology  
2:15–3:00***Access to financial capital - influence on firm innovativeness***

Tina WALLIN and Mikaela BACKMAN, Jönköping International Business School

Discussant: Danny CZAMANSKI, Technion - Israel Inst. Technology

3:00–3:45

***An examination of the role of local and distant knowledge spillovers on the U.S. regional knowledge creation***

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

Discussant: Gaelle KOTBI, Polytechnic Inst. LaSalle, Beauvais, France

Coffee Break: 3:45–4:15

4:15–5:00

***Social capital and economic performance: From theory to data***

Timothy SLAPER, Indiana Univ., Bloomington, and Michael F. THOMPSON, Univ. North Texas, Denton, USA

Discussant: Maryem CHERNI, Polytechnic Inst. LaSalle, Beauvais, France

5:00–5:45

***Firm knowledge, neighborhood diversity and innovation***

Sofia WIXE, Jönköping International Business School, Sweden

Discussant: Martin ANDERSSON, Lund Univ., Sweden

Monday, 4:15–5:45 PM

***WRSA Board Meeting***

(By invitation only)

Sabino

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



## Tuesday, February 17

8:00 AM–12:15 PM (and 2:15–6:15 PM),

**Registration** (Grand Ballroom Foyer)

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

- 3A Topics in Regional Science (Coronado)
- 3B Transportation, Infrastructure, and Supply-Chain Networks (Rincon)
- 3C Migration (Santa Rita)
- 3D Environmental Issues (Salon D)
- 3E Predicting Industry and Firm Success (Salon E)
- 3F Economic Growth and Development (Salon F)

10:00–10:30 AM, **Coffee Break** (Grand Ballroom Foyer)

12:15–2:15 PM, **Annual Banquet Luncheon** (Salon B)

2:15–6:15 PM, **Registration Continues** (Grand Ballroom Foyer)

2:30–6:00 PM, **Concurrent Sessions:**

- 4A Estimating Economic Productivity (Coronado)
- 4B Commuting (Rincon)
- 4C Migration and Human Capital (Santa Rita)
- 4D Agriculture and Environmental Risk (Salon D)
- 4E Remote Regions I: Arctic Urban Sustainability in the Russian North (Salon E)
- 4F Land Value and Economic Growth (Salon F)
- 4G Location and Economic Development (Sabino)

4:00–4:30 PM, **Coffee Break** (Grand Ballroom Foyer)

6:15–7:45 PM, **President's Reception** (Kiva Patio/Kiva A)



Tuesday 8:30 AM–12:00 PM

## Paper Session 3A ~ Coronado Topics in Regional Science

Chair: Roger COUPAL, Univ. Wyoming, Laramie, USA

8:30–9:15

**Securing the future of regional science: Conditions for a core discipline**

Antoine S. BAILLY, Univ. Geneva, Switzerland, and Lay J. GIBSON, Univ. Arizona, Tucson, USA

Discussant: David BOYCE, Northwestern Univ., Evanston, Illinois, USA

9:15–10:00

**Understanding and shaping expectations**

Jae Hong KIM, Univ. California, Irvine, USA

Discussant: Stein ØSTBYE, Uit - The Arctic Univ. Norway

*Coffee Break: 10:00–10:30*

10:30–11:15

**Social factors relating to gender differences in tertiary education: An international perspective**

Maki KATO, Yokohama National Univ., Japan

Discussant: Clare CHO, Ohio State Univ., Columbus, USA

11:15–12:00

**Determining social capital by social accounting**

Peter FRIEDRICH, Univ. Tartu, Estonia

Discussant: Melody MULDROW, Univ. Arkansas, Little Rock, USA



Tuesday 8:30 AM–12:00 PM

## Paper Session 3B ~ Rincon Transportation, Infrastructure, and Supply-Chain Networks

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

8:30–9:15

**The ties that bind: Economic and freight transportation implications of U.S.-Canada border bridges using a bi-national transportation network-combined economic model**  
Ha HWANG, JiYoung PARK, ShenHao CHANG, Nathan ATTARD, Samuel WELLS, Changhyun KWON, and Kathryn FRIEDMAN, Univ. Buffalo, New York, USA

Discussant: Andrew CASSEY, Washington State Univ., Pullman, USA

9:15–10:00

**Using proxies to describe the metropolitan freight landscape**  
Genevieve GIULIANO, Sanggyun KANG, and Quan YUAN, Univ. Southern California, Los Angeles, USA

Discussant: Sungyup CHUNG, Univ. Illinois, Urbana-Champaign, USA

*Coffee Break: 10:00–10:30*

10:30–11:15

**The impact of the widening of the Panama Canal on U.S. ports and regional development**

Harry Ward RICHARDSON, Autonomous Univ. of the State of Mexico, JiYoung PARK, Univ. Buffalo, New York, and ChangKeun PARK, Univ. Georgia, Athens, USA

Discussant: Ashkan MASOUNMAN, Univ. Wollongong, Australia

11:15–12:00

**Supply chain internationalization in East Asia: Inclusiveness and risks**

Nobuaki HAMAGUCHI, Kobe Univ., Japan

Discussant: Peter HALLER, Inst. Employment Research (IAB), Germany

## Many Thanks to the 2014–2015 Program Committee!

John Carruthers, George Washington Univ.

Sandy Dall'Erba, Univ. Arizona

Alessandra Faggian, Ohio State Univ.

Art Getis, San Diego State Univ.

Lee Huskey, Univ. Alaska, Anchorage

Randy Jackson, West Virginia Univ.

Jaewon Lim, Univ. Nevada, Las Vegas

Gordon Mulligan, Univ. Arizona

Alan Murray, Arizona State Univ.

Bruce Newbold, McMaster Univ.

Greg Protasel, Univ. Alaska

Serge Rey, Arizona State Univ.

Richard Wobbekind, Univ. Colorado, Boulder

### Co-Chairs:

David Plane, Univ. Arizona

Matthias Ruth, Northeastern Univ.

### Chair:

Rachel Franklin, Brown Univ.



Tuesday 8:30 AM–12:00 PM  
**Paper Session 3C ~ Santa Rita**

**Migration**

Chair: Brigitte Susanne WALDORF, Purdue Univ.,  
 West Lafayette, Indiana, USA

8:30–9:15

**Some thoughts on displaying geographical movement**

Waldo R. TOBLER, Univ. California, Santa Barbara, USA

Discussant: Thom MALONE, Univ. Southern California, Los Angeles, USA

9:15–10:00

**Perceived employment outcomes after migration vary by distance and reason for moving**

William A. CLARK, Univ. California, Los Angeles, USA, and Thomas NIEDOMYSL, Lund Univ., Sweden

Discussant: Janice Fanning MADDEN, Univ. Pennsylvania, Philadelphia, USA

*Coffee Break: 10:00–10:30*

10:30–11:15

**A spatial dynamic model of the influence of residential quality and the labour market on population change**

Richard RIJNKS, Sierdjan KOSTER, and Philip McCANN, Univ. Groningen, The Netherlands

Discussant: Lina AHLIN, Lund Univ., Sweden

11:15–12:00

**Residential migration of entrepreneurs in Sweden**

Thomas NIEDOMYSL, Lund Univ., Sweden, and Sierdjan KOSTER, Univ. Groningen, The Netherlands

Discussant: Steven FARBER, Univ. Toronto, Scarborough, Canada



Tuesday 8:30 AM–12:00 PM  
**Paper Session 3D ~ Salon D**

**Environmental Issues**

Chair: Sandy DALL ERBA, Univ. Arizona, Tucson, USA

8:30–9:15

**Effects of irrigated parks on outdoor residential water use in a semi-arid city**

Eve B. HALPER and Sandy DALL ERBA, Univ. Arizona, Tucson, USA, Rosalind BARK, Univ. Leeds, United Kingdom, and Christopher A. SCOTT and Stephen R. YOOL, Univ. Arizona, Tucson, USA

Discussant: Seong Do YUN, Purdue Univ., West Lafayette, Indiana, USA

9:15–10:00

**Analyzing the potential of carbon tax and subsidy system in the power sector: Application in a regional dynamic model**

Qian ZHOU, Yoshiro HIGANO, Helmut YABAR, and Takeshi MIZUNOYA, Univ. Tsukuba, Japan

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

*Coffee Break: 10:00–10:30*

10:30–11:15

**The economic and fiscal impacts of Hawaii's solar tax credit**

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

Discussant: Yuko AKUNE, Reitaku Univ., Japan

11:15–12:00

**Integrating state and federal greenhouse gas regulation**

Makena COFFMAN, Paul BERNSTEIN, and Sherilyn WEE, Univ. Hawaii, Manoa, USA

Discussant: Chang-Hee Christine BAE, Univ. Washington, Seattle, USA



Tuesday 8:30 AM–12:00 PM  
**Paper Session 3E ~ Salon E**

**Predicting Industry and Firm Success**

Chair: Johan KLAESSON,  
 Jönköping International Business School, Sweden

8:30–9:15

**Growth and location in the Washington wine industry**

Jon R. MILLER and Daniel C. HICKMAN, Univ. Idaho, Moscow, USA

Discussant: Therese NORMAN, Jönköping International Business School, Sweden

9:15–10:00

**Regional characteristics and the survival of new firms**

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

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

*Coffee Break: 10:00–10:30*

10:30–11:15

**The effects of interlocal collaboration on local economic performance: Investigation of Korean cases**

Eunok IM, Univ. Southern California, Los Angeles, USA

Discussant: Johan KLAESSON, Jönköping International Business School, Sweden

11:15–12:00

**Geographical determinants of shop survival**

Özge ÖNER and Johan P. LARSSON, Jönköping International Business School, Sweden

Discussant: Younghyun KWON, Seoul National Univ., Korea

**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!

Tuesday morning program continues on page 8...



*Tuesday 8:30 AM–12:00 PM  
Paper Session 3F ~ Salon F  
Economic Growth and Development*

Chair: Dennis HOFFMAN, Arizona State Univ., Tempe, USA  
8:30–9:15

*The concept of openness in the knowledge economy: Towards a taxonomy*

Anna LUNDGREN and Hans WESTLUND, Royal Inst. Technology (KTH), Stockholm, Sweden

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

9:15–10:00

*Disentangling the channels of agglomeration impacts on individual wages: The case of Mexican banking sector*

Keisuke KONDO, Research Inst. Economy, Trade, and Industry, Japan

Discussant: Michael OLSSON, Univ. Skövde, Sweden

*Coffee Break: 10:00–10:30*

10:30–11:15

*Agglomeration and informality: Evidence from Peruvian firms*

Carlianne PATRICK and Maria BERNEDO DEL CARPIO, Georgia State Univ., Atlanta, USA

Discussant: Eun Jin SHIN, Univ. Southern California, Los Angeles, USA

11:15–12:00

*The effect of urbanization on the technology of governance*

Steven G. CRAIG, Univ. Houston, Texas, Edward HOANG, Univ. Colorado, Colorado Springs, and Janet E. KOHLHASE, Univ. Houston, Texas, USA

Discussant: Li FANG, Univ. Maryland, College Park, USA

*Tuesday 12:15–2:15 PM*

**Annual Awards Luncheon**

Salon B

(For all registered and paid participants; tickets required)

Chair: Hans WESTLUND,  
Royal Inst. Technology (KTH), Stockholm, Sweden  
and 54<sup>th</sup> WRSA President (2013–2014)

**Announcements:**

Rachel FRANKLIN, WRSA Executive Director

**The 19<sup>th</sup> Annual Springer-Verlag Prize**

*Presented by:*

Martin ANDERSSON and Janet KOHLHASE, Editors,  
*The Annals of Regional Science*

**The 29<sup>th</sup> Charles M. Tiebout Prize**

*Presented by:* Peter GORDON,  
53<sup>rd</sup> WRSA President (2012–2013)  
and Chair, 2014–2015 Reading Committee

**Presidential Address:**

***Population aging: What role for regional science?***  
Bruce NEWBOLD, 56<sup>th</sup> WRSA President (2015–2016)

**Discussant:**

Jouke VAN DIJK, Univ. Groningen, The Netherlands



**The 56 WRSA Presidents**

1 <sup>st</sup>	1960–1961	William Golder
2 <sup>nd</sup>	1961–1962	Morgan D. Thomas
3 <sup>rd</sup>	1962–1963	James N. Tattersall
4 <sup>th</sup>	1963–1964	William S. Peters
5 <sup>th</sup>	1964–1965	John W. Dyckman
6 <sup>th</sup>	1965–1966	Charles M. Tiebout
7 <sup>th</sup>	1966–1967	Fred E. Case
8 <sup>th</sup>	1967–1968	Paul F. Wendt
9 <sup>th</sup>	1968–1969	Harold L. Buma
10 <sup>th</sup>	1969–1970	Bernard Udis
11 <sup>th</sup>	1970–1971	Edward L. Ullman
12 <sup>th</sup>	1971–1972	Anthony H. Pascal
13 <sup>th</sup>	1972–1973	Donald A. Watson
14 <sup>th</sup>	1973–1974	Charles L. Leven
15 <sup>th</sup>	1974–1975	Shelly Mark
16 <sup>th</sup>	1975–1976	Frank G. Mittelbach
17 <sup>th</sup>	1976–1977	Martin Beckmann
18 <sup>th</sup>	1977–1978	Parzival Copes
19 <sup>th</sup>	1978–1979	David Seymour
20 <sup>th</sup>	1979–1980	Werner Hirsch
21 <sup>st</sup>	1980–1981	Lee Attaway
22 <sup>nd</sup>	1981–1982	Niles Hansen
23 <sup>rd</sup>	1982–1983	Sol Rabin
24 <sup>th</sup>	1983–1984	Robert Keyes
25 <sup>th</sup>	1984–1985	Nina Gruen
26 <sup>th</sup>	1985–1986	Jack Knetsch
27 <sup>th</sup>	1986–1987	Gunter Schramm
28 <sup>th</sup>	1987–1988	Bernard Malamud
29 <sup>th</sup>	1988–1989	Harry W. Richardson
30 <sup>th</sup>	1989–1990	Paul E. Polzin
31 <sup>st</sup>	1990–1991	Michael J. Greenwood
32 <sup>nd</sup>	1991–1992	Kingsley E. Haynes
33 <sup>rd</sup>	1992–1993	Theodore Lane
34 <sup>th</sup>	1993–1994	Richard L. Morrill
35 <sup>th</sup>	1994–1995	John E. Keith
36 <sup>th</sup>	1995–1996	Antoine S. Bailly
37 <sup>th</sup>	1996–1997	Jon R. Miller
38 <sup>th</sup>	1997–1998	Jack C. Stabler
39 <sup>th</sup>	1998–1999	Lay James Gibson
40 <sup>th</sup>	1999–2000	Arthur Getis
41 <sup>st</sup>	2000–2001	John M. Quigley
42 <sup>nd</sup>	2001–2002	Brenda Moscove
43 <sup>rd</sup>	2002–2003	Roger Stough
44 <sup>th</sup>	2003–2004	Koichi Mera
45 <sup>th</sup>	2004–2005	Juanita Liu
46 <sup>th</sup>	2005–2006	Lee Huskey
47 <sup>th</sup>	2006–2007	Jack W. Osman
48 <sup>th</sup>	2007–2008	Geoffrey J. D. Hewings
49 <sup>th</sup>	2008–2009	T. John Kim
50 <sup>th</sup>	2009–2010	David W. Holland
51 <sup>st</sup>	2010–2011	Robert J. Stimson
52 <sup>nd</sup>	2011–2012	Warren Gill
53 <sup>rd</sup>	2012–2013	Peter Gordon
54 <sup>th</sup>	2013–2014	Hans Westlund
55 <sup>th</sup>	2014–2015	Serge Rey
56 <sup>th</sup>	2015–2016	K. Bruce Newbold



Tuesday 2:30–6:00 PM

**Paper Session 4A ~ Coronado**

**Estimating Economic Productivity**

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

2:30–3:15

**Embedding an inter-sectoral module into a dynamic framework to estimate regional employment**

Ashkan MASOUMAN, Univ. Wollongong, Australia

Discussant: Keisuke KONDO, Research Inst. Economy, Trade, and Industry, Japan

3:15–4:00

**Census metropolitan area gross domestic product: Experimental estimates, 2001 to 2009**

Mark BROWN and Luke RISPOLI, Statistics Canada, Ottawa

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

*Coffee Break: 4:00–4:30*

4:30–5:15

**Assessing the regional business cycle asymmetry in a multi-level structure framework: A study of the top 20 U.S. metropolitan statistical areas**

Sungyup CHUNG, Univ. Illinois, Urbana-Champaign, USA

Discussant: Carianne PATRICK, Georgia State Univ., Atlanta, USA

5:15–6:00

**Nowcasting Scottish GDP growth**

Stuart MCINTYRE, Grant ALLAN, Gary KOOP, and Paul SMITH, Univ. Strathclyde, Glasgow, United Kingdom

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



Tuesday 2:30–6:00 PM

**Paper Session 4B ~ Rincon**

**Commuting**

Chair: Peter FRIEDRICH, Univ. Tartu, Estonia

2:30–3:15

**Infrastructure, commuting, and regional hires: Spatial dependency in the matching function**

Peter HALLER, Inst. Employment Research (IAB), Germany, and Daniel F. HEUERMANN, Univ. Regensburg, Germany

Discussant: Nicolas DEVAUX, Univ. Québec, Rimouski, Canada

3:15–4:00

**Exploring causal effects of living in an ethnic enclave on immigrants' commuting mode choices**

Eun Jin SHIN, Univ. Southern California, Los Angeles, USA

Discussant: Zuzana MACUCHOVA, Univ. Dalarna, Sweden

*Coffee Break: 4:00–4:30*

4:30–5:15

**Commuting and the economic milieu: An investigation of the choice to commute related to labor demand, worker competition and wage**

Michael OLSSON and Marie LUNDGREN, Univ. Skövde, and Thomas LAITILA, Örebro Univ., Sweden

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

5:15–6:00

**Does the relative importance of tacit knowledge explain occupational variations in propensities to work at home?**

Peter GORDON, Univ. Southern California, Los Angeles, and Pengyu ZHU, Boise State Univ., Idaho, USA

Discussant: Anna LUNDGREN, Royal Inst. Technology (KTH), Stockholm, Sweden



Tuesday 2:30–6:00 PM

**Paper Session 4C ~ Santa Rita**

**Migration and Human Capital**

Chair: Bruce NEWBOLD, McMaster University, Hamilton, Canada

2:30–3:15

**Openness as a determinant of graduate migration: Re-evaluating the creative class idea**

Maria ABREU, Univ. Cambridge, United Kingdom, Markus JOKELA, Univ. Helsinki, Finland, and Jason RENTFROW, Univ. Cambridge, United Kingdom

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

3:15–4:00

**Do recessions influence regions' possibilities to attract labor?**

Lina AHLIN, Lund Univ., Sweden

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

*Coffee Break: 4:00–4:30*

4:30–5:15

**College student migration in New England: Who comes, who goes, and why we might care**

Rachel S. FRANKLIN, Brown Univ., Providence, Rhode Island, and Alessandra FAGGIAN, Ohio State Univ., Columbus, USA

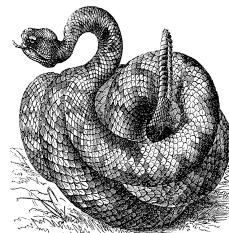
Discussant: Maria ABREU, Univ. Cambridge, United Kingdom

5:15–6:00

**10,000 taxi drivers with a bachelor's degree: Overeducation among young college graduates**

Kevin M. CAMP and Brigitte Susanne WALDORF, Purdue Univ., West Lafayette, Indiana, USA

Discussant: Sierdjan KOSTER, Univ. Groningen, The Netherlands



Tuesday afternoon program continues on page 10...



Tuesday 2:30–6:00 PM  
**Paper Session 4D ~ Salon D**

**Agriculture and Environmental Risk**

Chair: Yoshiro HIGANO, Univ. Tsukuba, Japan  
 2:30–3:15

**Spatial externality of irrigation and its implication to climate change adaptation: Empirical evidence from the U.S. Corn Belt regions**

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

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

3:15–4:00

**Simulating regional grain yield distributions to support agricultural drought risk assessment**

Frank M. DAVENPORT IV, Greg HUSAK, and Harikishan JAYANTHI, Univ. California, Santa Barbara, USA

Discussant: Henk FOLMER, Univ. Groningen, The Netherlands

*Coffee Break: 4:00–4:30*

4:30–5:15

**Economic evaluation of high temperature-tolerant rice with risk aversion of rice farming: Using a dynamic computable general equilibrium model**

Yuko AKUNE, Mitsuru OKIYAMA, and Suminori TOKUNAGA, Reitaku Univ., Japan

Discussant: Makena COFFMAN, Univ. Hawaii, Manoa, USA

5:15–6:00

**Economics of oil and gas development with reclamation and environmental bonding requirements**

Roger COUPAL, Yoshiyuki IGARASHI, David FINNOFF, and Matt ANDERSEN, Univ. Wyoming, Laramie, USA

Discussant: Sang-Yool LEE, Catholic Univ. Daegu, Korea



Tuesday 2:30–6:00 PM  
**Paper Session 4E ~ Salon E**

**Remote Regions I:**

**Arctic Urban Sustainability in the Russian North**

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

2:30–3:15

**The role of environmental and social impact assessments: The case of the Sakha Republic (Yakutia)**

Dwight NEWMAN, Univ. Saskatchewan, Anatoly SLEPTSOV, North Eastern Federal Univ., Russia, and Greg POELZER, Univ. Saskatchewan, Canada

Discussant: Brittany RETHERFORD, Univ. Alaska, Fairbanks, USA

3:15–4:00

**Creating northern capacity to build sustainable futures**

Greg POELZER, Univ. Saskatchewan, Canada

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

*Coffee Break: 4:00–4:30*

4:30–5:15

**Regional sustainable development strategies in the Russian North: The impact of federal relations**

John F. YOUNG, Univ. Northern British Columbia, Canada  
 Discussant: Pierre-Marcel DESJARDINS, Univ. Moncton, Canada

5:15–6:00

**Mining the High North: Dissonance between local and national interests**

Aileen A. ESPIRITU, Univ. Tromsø, Norway  
 Discussant: Terrence COLE, Univ. Alaska, Fairbanks, USA



Tuesday 2:30–6:00 PM

**Paper Session 4F ~ Salon F**

**Land Value and Economic Growth**

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

2:30–3:15

**Do industrial tax abatements spur property value growth? The case of Michigan**

Sung KANG, Korea Inst. Public Finance, Mark SKIDMORE, Univ. Wisconsin, Whitewater, and Laura REESE, Michigan State Univ., East Lansing, USA

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

3:15–4:00

**Poor rich people: An analysis of the real estate market during crisis**

Abukar WARSAME, Herman DONNER, Fredrik KOPSCH, and Svante MANDELL, Royal Inst. Technology (KTH), Stockholm, Sweden

Discussant: Harry Ward RICHARDSON, Autonomous Univ. of the State of Mexico

*Coffee Break: 4:00–4:30*

4:30–5:15

**How does public land ownership and management affect economic growth?**

Paul M. JAKUS, Utah State Univ., Logan, Therese C. GRIJALVA, Weber State Univ., Utah, and Lassina COULIBALY, Utah State Univ., Logan, USA

Discussant: Mark SKIDMORE, Univ. Wisconsin, Whitewater, USA

5:15–6:00

**Land and growth under the framework of endogenous growth theory: Theoretical model and evidence from China**

Li FANG, Univ. Maryland, College Park, USA, and Chuanhao TIAN, Zhejiang Univ., China

Discussant: Abukar WARSAME, Royal Inst. Technology (KTH), Stockholm, Sweden



Tuesday 2:30–6:00 PM

**Paper Session 4G ~ Sabino**

**Location and Economic Development**

Chair: Peter NIJKAMP, VU Univ., Amsterdam, The Netherlands

2:30–3:15

**Ohio's brewing industry and cluster detection: A case for craft beer as a development opportunity**

Michael S. MOORE and Neil REID, Univ. Toledo, Ohio, USA  
 Discussant: Hans WESTLUND, Royal Inst. Technology (KTH), Stockholm, Sweden

3:15–4:00

**Diversifying tourism industry and its impact on the recovery of Las Vegas**

Younghyun KWON, Seoul National Univ., Jaewon LIM, Univ. Nevada, Las Vegas, USA, and Euijune KIM, Seoul National Univ., Korea

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

*Coffee Break: 4:00–4:30*

4:30–5:15

**Alcohol outlet access in the state of Washington**

Tony GRUBESIC and Alan T. MURRAY, Drexel Univ., Philadelphia, and Ran WEI, Univ. Utah, Salt Lake City, USA

Discussant: Nobuaki HAMAGUCHI, Kobe Univ., Japan

5:15–6:00

**The locational determinants of microbreweries and brewpubs in the United States**

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

Discussant: Karl R. GEISLER, New Mexico State Univ., Las Cruces, USA



*Tuesday, 6:15–7:45 PM*

Kiva Patio/Kiva A

**President's Reception**

*For all participants and accompanying persons*

**Wednesday, February 18**

8:30 AM–12:15 PM, **Registration** (Grand Ballroom Foyer)

8:45 or 9:30 AM–12:15 PM, **Concurrent Sessions:**

- 5A Spatial Statistics and Econometrics (Coronado)
- 5B Economic Change: The Good, the Bad, and the Ugly (Rincon)
- 5C Environmental Impacts of Development (Santa Rita)
- 5D Housing and Real Estate I (Salon D)
- 5E Remote Regions II: Resources and Economic Development in the North (Salon E)

10:15–10:45 AM, **Coffee Break** (Grand Ballroom Foyer)

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

1:30–5:00 PM, **Concurrent Sessions:**

- 6A Location Modeling (Coronado)
- 6B Cities (Rincon)
- 6C Labor Markets and Mobility (Santa Rita)
- 6D Housing and Real Estate II (Salon D)
- 6E Remote Regions III: Northern Studies (Salon E)
- 6F Agriculture and Economic Development (Salon F)
- 6G Economic Development (Sabino)

3:00–3:30 PM, **Coffee Break** (Grand Ballroom Foyer)

(5:00 PM, **End of Conference**)



*Wednesday 8:45 AM–12:15 PM*

**Paper Session 5A ~ Coronado****Spatial Statistics and Econometrics**

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

8:45–9:30

**Parallel spatial regionalization using a cooperative heuristic approach**

Jason LAURA and Serge REY, Arizona State Univ., Tempe, USA

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

9:30–10:15

**Spatial dependence detection: Location matters but does time matter too? A meta-analysis based on real estate data**

Nicolas DEVAUX, Univ. Québec, Rimouski, Canada, Diego LEGROS, Univ. Bourgogne, France, and Jean DUBÉ, Univ. Laval, Québec, Canada

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

*Coffee Break: 10:15–10:45*

10:45–11:30

**On the link between volatility and growth: A spatial econometrics approach**

Girum ABATE, Aarhus Univ., Denmark

Discussant: Serge REY, Arizona State Univ., Tempe, USA

11:30–12:15

**Exporting spatial externalities**

Andrew CASSEY, Washington State Univ., Pullman, Katherine SCHMEISER, Mt. Holyoke College, Massachusetts, and Andreas WALDKIRCH, Colby College, Maine, USA

Discussant: Kiheiji NISHIDA, Hyogo Univ. Health Sciences, Kobe, Japan

**WRSA's 2016 Annual Meeting...Hawaii!**

(Or how we are like whales in our peregrinations...)

WRSA members are creatures of habit and so it is that we find ourselves, like clockwork, meeting every four years in the Hawaiian Islands. Next year, 2016, is that time again. For our 55<sup>th</sup> annual meeting we head back to familiar territory: the Big Island and the Hilton Waikoloa Resort. Some members will remember this resort from our last meeting on the Big Island in 2008.

Next year's conference dates are February 14–17. Our room rate at the Hilton Waikoloa is \$205/night (plus taxes) for resort view rooms or \$260/night (plus taxes) for ocean view rooms. This is a very good rate for Hawaii and comes with complimentary internet in guest rooms and parking. The hotel is also offering this room rate three days before and after our official meeting dates, so start planning your vacation now!

Not to forget: the traditional October 15 deadline for paper submissions!



*Wednesday morning program continues on page 12...*



*Wednesday 8:45 AM–12:15 PM*

**Paper Session 5B ~ Rincon**

**Economic Change: The Good, the Bad, and the Ugly**

Chair: Roger R. STOUGH,

George Mason Univ., Arlington, Virginia, USA

8:45–9:30

**Corruption in municipal government: The case of Montreal**

Michael FARRELL, Univ. Québec, Trois Rivières, Canada, and Gérard Richard MARCIL

Discussant: Fang FANG, Univ. Arizona, Tucson, USA

9:30–10:15

**Breaking bad and not getting better: The externalities of clandestine meth lab discovery and decontamination**

Bern Caudill DEALY and Brady P. HORN, Univ. New Mexico, Albuquerque, Kevin M. PEARSON, City of Salem, Oregon, and Robert P. BERRENS, Univ. New Mexico, Albuquerque, USA

Discussant: David Emanuel ANDERSSON, Nottingham Univ. Business School, China

*Coffee Break: 10:15–10:45*

10:45–11:30

**Riverboat casino gambling impacts on employment and income in host and surrounding counties**

Karl R. GEISLER, New Mexico State Univ., Las Cruces, and Mark W. NICHOLS, Univ. Nevada, Reno, USA

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

11:30–12:15

**Crime and natural resource booms: Evidence from unconventional natural gas production**

Tim KOMAREK, Old Dominion Univ., Norfolk, Virginia, USA

Discussant: Pablo WONG-GONZÁLEZ, CIAD, Hermosillo, Mexico



*Wednesday 9:30 AM–12:15 PM*

**Paper Session 5C ~ Santa Rita**

**Environmental Impacts of Development**

Chair: Eric P. THOR, Arizona State Univ., Tempe, USA

9:30–10:15

**The effect of oil production on water quality: An econometric evaluation of hydraulic fracturing**

Duran Anthony FIACK, Univ. California, Santa Cruz, Aaron MAMULA, NOAA Fisheries, Cameron SPEIR, National Marine Fisheries Service, and Brent HADDAD, Univ. California, Santa Cruz, USA

Discussant: Osamu SUGIMOTO, Keio Univ., Japan

*Coffee Break: 10:15–10:45*

10:45–11:30

**TRAP (transportation-related air pollution) in Shanghai**

Chang-Hee Christine BAE and Shijia LING, Univ. Washington, Seattle, USA

Discussant: Alexander BLANDÓN LOPEZ, Univ. del Tolima, Colombia

11:30–12:15

**Air pollution and perception-based averting behavior: The case of the Jinchuan mining area, China**

Henk FOLMER and Zhengtao LIR, Univ. Groningen, The Netherlands

Discussant: Paul M. JAKUS, Utah State Univ., Logan, USA



*Wednesday 8:45 AM–12:15 PM*

**Paper Session 5D ~ Salon D**

**Housing and Real Estate I**

Chair: Alexandra SCHAFFAR, Univ. Toulon, France

8:45–9:30

**Rednecks and Aristocrats: Why People Buy Their Houses**

David BRASINGTON, Univ. Cincinnati, Ohio, USA

Discussant: Aneil BARON, Ohio State Univ., Columbus, USA

**Urban dynamics of the Chinese high speed rail: Impact assessment on real estate price**

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

Discussant: Herman DONNER, Royal Inst. Technology (KTH), Stockholm, Sweden

*Coffee Break: 10:15–10:45*

10:45–11:30

**Payment performance and residency discounts in the rental housing market**

Kyoochul KIM, Pennsylvania State Univ., State College, USA

Discussant: Warren KRIESEL, Univ. Georgia, Athens, USA

11:30–12:15

**Let the buyer and seller beware: How are home prices biased by heterogeneous buyers and sellers?**

Aneil BARON, Ohio State Univ., Columbus, USA

Discussant: Joakim LUNDBLAD, Lund Univ., Sweden



*Wednesday 8:45 AM–12:15 PM*

**Paper Session 5E ~ Salon E**

**Remote Regions II:**

**Resources and Economic Development in the North**

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

8:45–9:30

**Trying to trace linkages: The staples trap and the Yukon's Faro mine**

Chris SOUTHcott, Lakehead Univ., Canada

Discussant: Aileen A. ESPIRITU, Univ. Tromsø, Norway

9:30–10:15

**How I learned to stop worrying and love the resource boom**

Lee HUSKEY, Univ. Alaska, Anchorage, USA

Discussant: Greg POELZER, Univ. Saskatchewan, Canada

*Coffee Break: 10:15–10:45*

10:45–11:30

**Small and medium sized enterprises (SMEs) in Canada's North: What can we learn from the Business Register?**

Pierre-Marcel DESJARDINS, Univ. Moncton, Canada

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

11:30–12:15

**The Alaska fiscal gap redux**

Greg PROTASEL, Univ. of Alaska, Anchorage, USA

Discussant: Cary CURLEE, Wilkes Community College, North Carolina, USA

*Wednesday, 12:15–1:30 PM*

**Lunch Break** (On your own this day)



*Wednesday 1:30–5:00 PM*  
**Paper Session 6A ~ Coronado**  
**Location Modeling**

Chair: Tony GRUBESIC, Drexel Univ., Philadelphia, USA  
 1:30–2:15

**Analyzing fire service deployment in Los Angeles County:  
 Estimating spatial efficiency using cyber search, GIS, and spatial optimization**

Rick CHURCH, Univ. California, Santa Barbara, and Wenwen LI, Arizona State Univ., Tempe, USA

Discussant: Jason LAURA, Arizona State Univ., Tempe, USA  
 2:15–3:00

**Exploring geographical space abstraction schemes for regional coverage maximization**

Daoqin TONG, Univ. Arizona, Tucson, and Ran WEI, Univ. Utah, Salt Lake City, USA

Discussant: Alan T. MURRAY, Drexel Univ., Philadelphia, USA

*Coffee Break: 3:00–3:30*

3:30–4:15

**Patterns of geographic concentration in marine capture industries**

Cameron SPEIR, National Marine Fisheries Service, USA

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

4:15–5:00

**A comparison between the two health care delivery systems:  
 Spatial competition model approach**

Kiheiji NISHIDA, Hyogo Univ. Health Sciences, Kobe, Japan

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



*Wednesday 1:30–5:00 PM*  
**Paper Session 6B ~ Rincon**  
**Cities**

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

1:30–2:15

**The nature of the city**

Joakim LUNDBLAD, Lund Univ., Sweden

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

2:15–3:00

**The problem of land value betterment: A simplified agent-based test of the Coase theorem**

Yiming WANG and Michelle BADDELEY, Univ. College London, United Kingdom

Discussant: Girum ABATE, Aarhus Univ., Denmark

*Coffee Break: 3:00–3:30*

3:30–4:15

**Agricultural suitability and urban population distribution: A global analysis from 1000 to 2000 CE**

Xiaofei LI, Raymond J.G.M. FLORAX, and Brigitte Susanne WALDORF, Purdue Univ., West Lafayette, Indiana, USA

Discussant: Michel DIMOU, Univ. Toulon, France

4:15–5:00

**Urban hierarchies in Greece: From the high growth period to the financial crisis**

Michel DIMOU and Alexandra SCHAFFAR, Univ. Toulon, France

Discussant: Karima KOURTIT, VU Univ., Amsterdam, The Netherlands



**Western Regional Science Association**

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David Plane, University of Arizona

Harry Richardson, Autonomous Univ. State of Mexico

Roger Stough, George Mason University

Waldo Tobler, University of California, Santa Barbara

\* *ex officio, Annals editors*

*Wednesday afternoon program continues on page 14...*



*Wednesday 1:30–5:00 PM*  
**Paper Session 6C ~ Santa Rita**  
**Labor Markets and Mobility**

Chair: Alessandra FAGGIAN, Ohio State Univ., Columbus, USA  
 1:30–2:15  
**Local labor market flexibility in a perceived low migration country: The case of French labor markets**  
 Mark D. PARTRIDGE, Ohio State Univ., Columbus, USA, Cécile DETANG-DESENDRE and Virginie PIGUET, INRA, Dijon, France

Discussant: David A. PLANE, Univ. Arizona, Tucson, USA  
 2:15–3:00

**Tipping under the microscope**

Thom MALONE and Christian REDFEARN, Univ. Southern California, Los Angeles, USA  
 Discussant: Kyoochul KIM, Pennsylvania State Univ., State College, USA

*Coffee Break: 3:00–3:30*

3:30–4:15

**Socio-economic developments in the Wadden area**

Jouke VAN DIJK, Univ. Groningen, The Netherlands  
 Discussant: Rachel S. FRANKLIN, Brown Univ., Providence, Rhode Island, USA

4:15–5:00

**Firm relocation and firm profits of relocating firms: Evidence from the Swedish wholesale trade sector**

Zuzana MACUCHOVA, Univ. Dalarna, Sweden  
 Discussant: Alessandra FAGGIAN, Ohio State Univ., Columbus, USA



*Wednesday 1:30–5:00 PM*  
**Paper Session 6D ~ Salon D**  
**Housing and Real Estate II**

Chair: David BRASINGTON, Univ. Cincinnati, Ohio, USA  
 1:30–2:15

**Traffic congestion, accessibility to employment and housing prices: A study of single-family housing market in Los Angeles County**

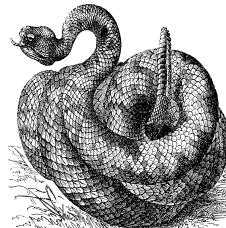
Yuting HOU, Univ. Southern California, Los Angeles, USA  
 Discussant: Ralph B. McLAUGHLIN, Trulia, Inc., San Jose, California, USA

2:15–3:00

**Does zoning matter? The impacts of light rail transit on property values and comparing Houston and Dallas**

Qisheng PAN, Texas Southern Univ., Houston, USA  
 Discussant: Yuting HOU, Univ. Southern California, Los Angeles, USA

*Coffee Break: 3:00–3:30*



3:30–4:15

**How was a real estate market's response to a natural amenity affected during the Great Recession?**

Warren KRIESEL, Univ. Georgia, Athens, USA  
 Discussant: Sungwon LEE, Univ. Illinois, Urbana-Champaign, USA

4:15–5:00

**The pricing of foreclosed properties**

Herman DONNER, Royal Inst. Technology (KTH), Stockholm, Sweden

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



*Wednesday 1:30–5:00 PM*  
**Paper Session 6E ~ Salon E**

**Remote Regions III: Northern Studies**

Chair: Greg PROTASEL, Univ. of Alaska, Anchorage, USA  
 1:30–2:15

**Alaska and Appalachia: Remote and poor?**

Cary CURLEE, Wilkes Community College, North Carolina, USA  
 Discussant: John F. YOUNG, Univ. Northern British Columbia, Canada

2:15–3:00

**The ends of the earth: Frank Carpenter and the American geographical imagination**

Terrence COLE, Univ. Alaska, Fairbanks, USA  
 Discussant: Greg PROTASEL, Univ. of Alaska, Anchorage, USA

*Coffee Break: 3:00–3:30*

3:30–4:15

**Remote murder: The unsolved case of Alaska's biggest murder mystery**

Brittany RETHERFORD, Univ. Alaska, Fairbanks, USA  
 Discussant: Chris SOUTHcott, Lakehead Univ., Canada

4:15–5:00

**Cold war missiles: The operation, abandonment and preservation of Nike Site Summit**

Leighton QUARLES, Univ. Utah, Salt Lake City, USA  
 Discussant: Dwight NEWMAN, Univ. Saskatchewan, Canada



*Wednesday 1:30–4:15 PM*  
**Paper Session 6F ~ Salon F**

**Agriculture and Economic Development**

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

1:30–2:15

**Local national partnerships to help reduce conflicts over loans, grazing disputes, development, and related issues: Reduction in cost of conflicts and increasing state by state use of rural mediation centers to save public funds**

Eric P. THOR, Arizona State Univ., Tempe, Janet WERTSCH, Arizona Ag Mediation Inst., and Philip STILES, Arizona State Univ., Tempe, USA

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

2:15–3:00

*The coffee production and change, and the implications in Dak Lak, Vietnam*

Sang-Yool LEE, Catholic Univ. Daegu, Korea

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

Coffee Break: 3:00–3:30

3:30–4:15

*Regional economic trajectory, value chain economic structure, and competitiveness policies at the level of value chain: The case of the value chain cocoa-chocolate in Santander (Colombia)*

Alexander BLANDÓN LOPEZ and Janeth GONZALEZ RUBIO, Univ. del Tolima, Colombia

Discussant: Duran Anthony FIACK, Univ. California, Santa Cruz, USA



Wednesday 1:30–5:00 PM

**Paper Session 6G ~ Sabino Economic Development**

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

1:30–2:15

*A meta-analysis of the estimated impact of structural funds on regional growth*

Sandy DALL ERBA and Fang FANG, Univ. Arizona, Tucson, USA

Discussant: Tim KOMAREK, Old Dominion Univ., Norfolk, Virginia, USA

2:15–3:00

*Unemployment in European regions: Structural problems vs. the Eurozone hypothesis*

David Emanuel ANDERSSON, Nottingham Univ. Business School, China, Ake E. ANDERSSON, Jönköping International Business School, and Björn HARSMAN, and Zara DAGHBASHYAN, Royal Inst. Technology (KTH), Stockholm, Sweden

Discussant: Bern Caudill DEALY, Univ. New Mexico, Albuquerque, USA

Coffee Break: 3:00–3:30

3:30–4:15

*"Sun Corridor" as a transborder mega-region: Revivifying economic development in the Arizona-Sonora region*

Lay J. GIBSON and Vera PAVLAKOVICH-KOCHI, Univ. Arizona, Tucson, Pablo WONG-GONZÁLEZ, CIAD, Hermosillo, Mexico, Jaewon LIM, Univ. Nevada, Las Vegas, and Bruce WRIGHT, Univ. Arizona, Tucson, USA

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

4:15–5:00

*Measuring the spatial impact of in-kind food aid from the U.S. on the local economy: A case study of Ethiopia*

Monica H. KIM and Roger R. STOUGH, George Mason Univ., Arlington, Virginia, USA

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

(Conference ends at 5:00 PM)



*How many have you attended?*

**WRSA Meeting History**

53rd	Paradise Point Resort, San Diego, CA
52nd	Fess Parker's Doubletree, Santa Barbara, CA
51st	Sheraton Kauai, Poipu, HI
50th	Monterey Plaza Hotel, Monterey, CA
49th	Hilton Sedona, Sedona, AZ
48th	Silverado Resort, Napa, CA
47th	Hilton Waikoloa Village Resort, Hawaii, HI
46th	Hyatt Regency, Newport Beach, CA
45th	La Fonda, Santa Fe, NM
44th	Hyatt Regency Islandia, San Diego, CA
43rd	Marriott Wailea Resort, Maui, HI
42nd	Rio Rico Resort, Rio Rico, AZ
41st	Hyatt Regency Monterey, Monterey, CA
40th	Riviera Resort & Racquet Club, Palm Springs, CA
39th	Sheraton Kauai Resort, Poipu, HI
38th	Ojai Valley Inn, Ojai, CA
37th	Hyatt-Regency Monterey, Monterey, CA
36th	The Royal Waikoloan Resort, Waikoloa, HI
35th	Silverado Country Club and Resort, Napa, CA
34th	San Diego Princess Resort, San Diego, CA
33rd	Westward Look Resort, Tucson, AZ
32nd	Maui Inter-Continental Resort, Wailea, Maui, HI
31st	Caesar's Tahoe Resort, South Lake Tahoe, NV
30th	Monterey Plaza Hotel, Monterey, CA
29th	Kaluokoi Hotel, Molokai, HI
28th	San Diego Princess Resort, San Diego, CA
27th	Silverado Country Club, Napa, CA
26th	Kona Surf Resort, Keauhau, Hawaii, HI
25th	Surf and Sand Hotel, Laguna Beach, CA
24th	Hotel Del Coronado, Coronado (San Diego), CA
23rd	Casa Munras Hotel, Monterey, CA
22nd	The Prince Kuhio Hotel, Honolulu, HI
21st	Miramar Hotel, Santa Barbara, CA
20th	Newporter Inn, Newport Beach, CA
19th	Doubletree Inn, Monterey, CA
18th	Vacation Village Hotel, San Diego, CA
17th	Mansion Inn, Sacramento, CA
16th	Doubletree Inn, Tucson, AZ
15th	Vacation Village Hotel, San Diego, CA
14th	The Riviera Hotel, Palm Springs, CA
13th	Edgewater Hyatt House, Long Beach, CA
12th	Del Monte Hyatt House, Monterey, CA
11th	Vacation Village Hotel, San Diego, CA
10th	Santa Barbara Biltmore Hotel, Santa Barbara, CA
9th	Vacation Village Hotel, San Diego, CA
8th	Newporter Inn, Newport Beach, CA
7th	Vacation Village Hotel, San Diego, CA
6th	(Meeting site unknown), Las Vegas, NV
5th	Santa Barbara Inn, Santa Barbara, CA
4th	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 on Monday Afternoon

3A, 3B, 3C, 3D, 3E, 3F on Tuesday Morning

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

5A, 5B, 5C, 5D, 5E on Wednesday Morning

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

OS = Opening Session on Sunday Afternoon

WB= WRSA Board Meeting on Monday afternoon

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

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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 MILLER, J. R. (jrmecon@uidaho.edu): **1E, 3E**  
 MILLS, R. W. (millsrw@bgsu.edu): **1B, 1B, 2B**  
 MITCHELL, J.: **1F**  
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 TRA, C.: **1F**, **2D**

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 WRIGHT, B.: **6G**

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 YUAN, Q. (quanyuan@usc.edu): **3B**  
 YUN, S. (yun16@purdue.edu): **1D**, **3D**

**~Z~**

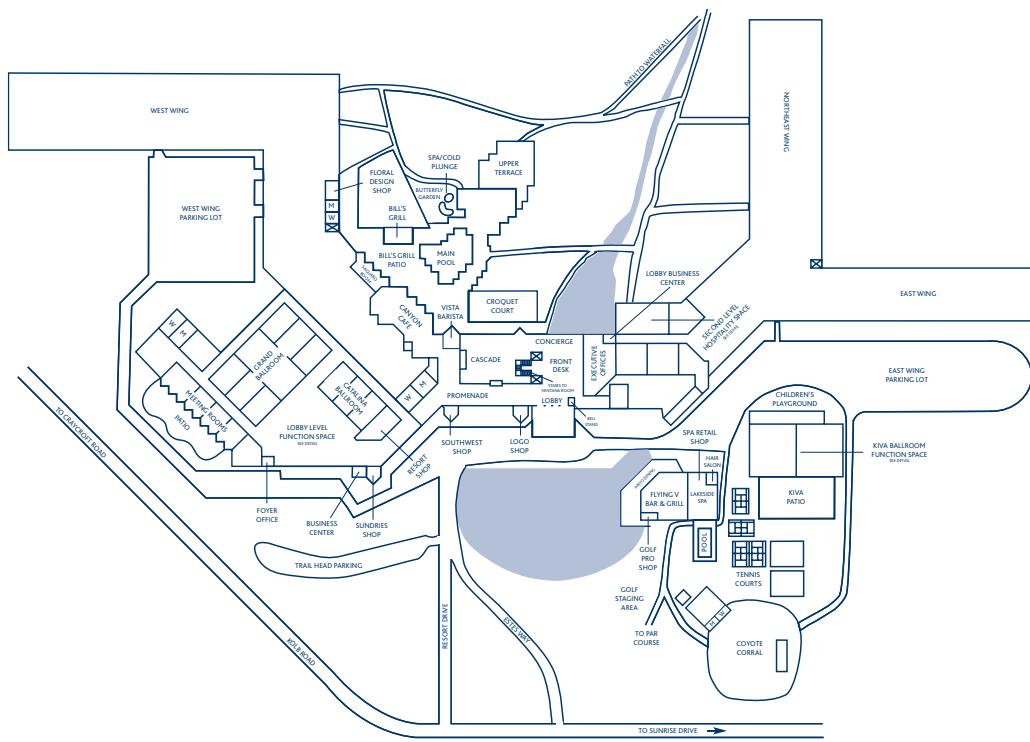
ZHOU, Q. (goodcomeon@gmail.com): **3D**  
 ZHU, P.: **4B**

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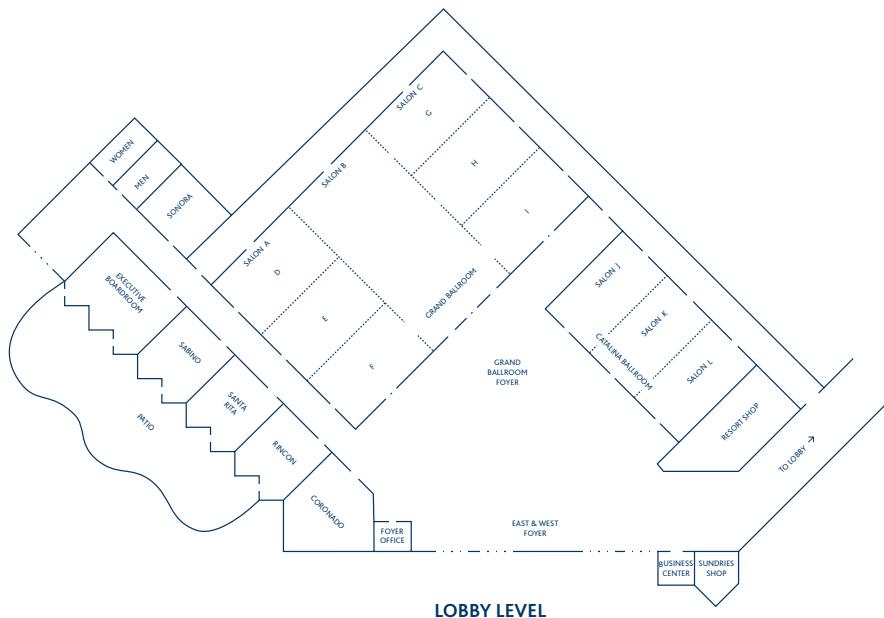
*Notes:*

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## Meeting Room Locations at Loews Ventana Canyon Resort



## PROPERTY OVERVIEW



## Our Meeting Venue:

Loews Ventana Canyon  
7000 N. Resort Drive  
Tucson, Arizona 85750  
Phone: 520-299-2020