



Western Regional Science Association 57th Annual Meeting

**Hilton Pasadena | Pasadena, California
February 11–14, 2018
Final Meeting Program**



Sunday, February 11

2:00–6:00 PM, Registration

3:30–5:15 PM, The 8th Annual Lay James Gibson Opening Session

5:30–7:00 PM, Welcoming Reception

Sunday, 3:30–5:15 PM



***The 8th Annual Lay James Gibson
Opening Session***

Chair:

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

Future Look at Travel

Hasan IKHRATA,
Southern California Association of Governments,
Los Angeles, USA

Discussant:

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

Sunday, 5:30–7:00 PM

Welcoming Reception

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



Monday, February 12

8:00 AM–12:15 PM (and 1:00–4:45 PM),

Registration

8:30–10:00 AM, **WRSA Board Meeting** *By invitation only*

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

- 1A Innovation and Growth
- 1B Income Distribution and Inequality
- 1C Population
- 1D Regional Economic Development Project Team Workshop *Observers also welcome*
- 1E Estimating Property and Land Values
- 1F Disasters, Land Use, and the Environment

10:00–10:30 AM, **Coffee Break**

12:00–1:30 PM, **Lunch Break** *(On your own this day)*

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

- 2A Economic Responses to Change
- 2B Quality of Life and Development
- 2C Spatial Demography
- 2D Labor Markets and Wages
- 2E Housing and Real Estate
- 2F Energy and Power
- 2G The Keith Schwer Memorial Western States Economic Outlook: After a Year of the Trump Administration

1:00–4:45 PM, **Registration Continues**

3:00–3:30 PM, **Coffee Break**

5:15–7:30 PM, **6th Annual Getis-Ord Lecture in Spatial Analysis**

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



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



Monday, 8:30 AM–12:00 PM

Paper Session 1A ~

Innovation and Growth

Chair: Karima KOURTIT,

Royal Inst. Technology (KTH), Stockholm, Sweden

8:30–9:15

Technology intensity and agglomeration economies

Jiaochen LIANG, California State Univ., Fresno, and Stephan GOETZ, Pennsylvania State Univ., University Park, USA

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

9:15–10:00

The rural-urban broadband internet provision gap

Peter STENBERG, U.S. Dept. Agriculture, Washington, DC, USA

Discussant: Kwansoo KIM, Seoul National Univ., Korea

Coffee Break: 10:00–10:30

10:30–11:15

Regional employment and artificial intelligence in Japan

Keisuke KONDO, Research Inst. Economy, Trade and Industry, and Nobuaki HAMAGUCHI, Kobe Univ., Japan

Discussant: Veneziano ARAUJO, Univ. Federal de Sao Paulo, Brazil

11:15–12:00

Cross-industry effects of new business creation to regional employment growth: Capital versus non-capital regions

Yoojin YI and Euijune KIM, Seoul National Univ., Korea

Discussant: Karima KOURTIT, Royal Inst. Technology (KTH), Stockholm, Sweden



Monday, 8:30 AM–12:00 PM

Paper Session 1B ~

Income Distribution and Inequality

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

8:30–9:15

Determining a method to change the mix of state sales and income tax rates which enhances economic growth and reduces inequality in a spatial model with free migration

Juan Carlos LOPEZ, Univ. Denver, Colorado, and Harvey CUTLER and Martin SHIELDS, Colorado State Univ., Fort Collins, USA

Discussant: Rodrigo PEREZ-SILVA, Ohio State Univ., Columbus, USA

9:15–10:00

Metropolitan governance structure and growth-inequality dynamics in the United States

Jaewoo CHO and Jae Hong KIM, Univ. California, Irvine, and Yonsu KIM, Local Initiative Health Authority for Los Angeles County, USA

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

Coffee Break: 10:00–10:30

10:30–11:15

Rising inequality and neighborhood mixing in US Metro Areas

Kevin KANE, Southern California Assoc. Governments, Los Angeles, and John R. HIPP, Univ. California, Irvine, USA

Discussant: Duncan ROTH, Inst. Employment Research, Germany

11:15–12:00

Stabilize the peasant economy: Governance of foreclosure by the Shogunate

Yu MANDAI, Osaka Municipal Library and Masaki NAKABAYASHI, Univ. Tokyo, Japan

Discussant: WEI KANG, Arizona State Univ., Tempe, USA



Monday, 8:30 AM–12:00 PM

Paper Session 1C ~

Population

Chair: Yuri MANSURY,
Illinois Inst. Technology, Chicago, USA

8:30–9:15

Influencing factors to have an additional child by working women in Korea

Insu CHANG, Korea Inst. Health and Social Affairs, and Daeyoung KWON and Brian H.S. KIM, Seoul National Univ., Korea

Discussant: Pengyu ZHU, Univ. Hong Kong, China

9:15–10:00

The location of hosted asylum seekers in OECD regions and cities

Paola PROIETTI, Gran Sasso Science Inst., Paolo VENERI, OECD and Gran Sasso Science Inst., and Alessandra FAGGIAN, Gran Sasso Science Inst., L'Aquila, Italy

Discussant: Hyunkyung LEE, Hanyang Univ., Korea

Coffee Break: 10:00–10:30

10:30–11:15

An empirical analysis of the role of rural population growth in electricity consumption in Sub-Saharan Africa

Nyakundi MICHIEKA, California State Univ., Bakersfield, USA

Discussant: Anthony ORLANDO, Univ. Southern California, Los Angeles, USA

11:15–12:00

The effects of a new administrative city construction on the relief of population overconcentration in Korea's capital region

Ji Hyeon LEE and Myung Jin JUN, Chung-Ang Univ., Korea

Discussant: Anja ROSSEN, Inst. Employment Research (IAB), Germany



Monday, 8:30 AM–12:00 PM

Panel Session 1D ~

Regional Economic Development Project Team Workshop

(Observers also welcome)

Convenor: Timothy SLAPER,
Indiana Univ., Bloomington, USA



Monday, 8:30 AM–12:00 PM
Paper Session 1E ~ San Gabriel
Estimating Property and Land Values
 Chair: Michael CARROLL,
 Univ. North Texas, Denton, USA

8:30–9:15

Does local control bring more benefits to communities? Evidence from special districts and housing prices

Brian AN, Univ. Southern California, Los Angeles, USA

Discussant: Lina JONSSON, WSP Sverige AB, Sweden

9:15–10:00

Build rail and receive higher property value?—To grasp the change in property values

Lina JONSSON, WSP Sverige AB, Ingemar BENGTTSSON, Lund Univ., Peter ALMSTRÖM, WSP Sverige AB, and Fredrik KOPSCH, Lund Univ., Sweden

Discussant: Julia HARTEN, Univ. Southern California, Los Angeles, USA

Coffee Break: 10:00–10:30

10:30–11:15

Land price variation between 2000 and 2014 as an effect of rail transit stations: The case of Dallas-Fort Worth region

Saad M. ALQUHTANI, Najran Univ., Saudi Arabia, and Art ANJOMANI, Univ. Texas, Arlington, USA

Discussant: Michael CARROLL, Univ. North Texas, Denton, USA

11:15–12:00

The impact of air quality on house prices: An investigation into the actual and perceived willingness to pay for clean air

Matt GNAGEY, Weber State Univ., Ogden, Utah, USA

Discussant: John CHO, Southern California Assoc. Governments, Los Angeles, USA



Monday, 8:30 AM–12:00 PM
Paper Session 1F ~
Disasters, Land Use, and the Environment
 Chair: Noah DORMADY,
 Ohio State Univ., Columbus, USA

8:30–9:15

The economic benefit of three-stage flood early warning system in Korea

Minjeong KANG and Donghwan AN, Seoul National Univ., Korea

Discussant: Katsuhiko SAKURAI, Risho Univ., Japan

9:15–10:00

Evaluating the environmental load reduction in Mikawa Bay using the inter-regional input-output model

Katsuhiko SAKURAI, Risho Univ., and Hiroyuki SHIBUSAWA and Risa OCHIAI, and Yuzuru MIYATA, Toyohashi Univ. Technology, Japan

Discussant: Dan WEI, Univ. Southern California, Los Angeles, USA

Coffee Break: 10:00–10:30

10:30–11:15

Evaluating economic damage caused by the tsunami: A study on the resilience of Aichi Prefecture in Japan

Ryota HANAOKA, Hiroyuki SHIBUSAWA, and Yuzuru MIYATA, Toyohashi Univ. Technology, Japan

Discussant: Noah DORMADY, Ohio State Univ., Columbus, USA

11:15–12:00

The effects of the release of the greenbelt restrictions on land development in the case of medium size cities, Korea

Jae Ik KIM, Jun Yong HYUN, and Seom Gyeol LEE, Keimyung Univ., Korea

Discussant: Jonathan EYER, Univ. Southern California, Los Angeles, USA



Monday, 12:00–1:30 PM
Lunch Break (On your own this day)



Monday, 1:30–5:00 PM

Paper Session 2A ~

Economic Responses to Change

Chair: Peter STENBERG,

U.S. Dept. Agriculture, Washington, DC, USA

1:30–2:15

Analysis on the effectiveness and income redistribution effect of zero rating to value-added tax on machinery and materials for agriculture, livestock industry, forestry, or fishery

Sangwon LEE and Kwansoo KIM, Seoul National Univ., Korea

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

2:15–3:00

The Ricardian model of climate change impact with interregional trade flows: Evidence from the U.S. agriculture

Zhangliang CHEN and Sandy DALL ERBA, Univ. Illinois, Urbana-Champaign, USA

Discussant: Yoojin YI, Seoul National Univ., Korea

Coffee Break: 3:00–3:30

3:30–4:15

Resilience to a cyber-attack on the automobile industry: A Computable General Equilibrium approach

Adam ROSE, Univ. Southern California, Los Angeles, and Zhenhua CHEN, Ohio State Univ., Columbus, USA

Discussant: Jiaochen LIANG, California State Univ., Fresno, USA

4:15–5:00

The effect of the 9/11 terrorist attacks on local tax levies for fire, police, and EMS departments

David BRASINGTON, Univ. Cincinnati, Ohio, USA

Discussant: Peter STENBERG, U.S. Dept. Agriculture, Washington, DC, USA



Monday, 1:30–5:00 PM

Paper Session 2B ~

Quality of Life and Development

Chair: Maria ABREU, Univ. Cambridge, United Kingdom

1:30–2:15

Integrative diversification of wellness tourism services in rural areas - An operational framework model applied to East Hokkaido (Japan)

João ROMÃO and Kazuo MACHINO, Hokkaido Univ., Japan, and Peter NIJKAMP, Tinbergen Inst., The Netherlands

Discussant: Maria ABREU, Univ. Cambridge, United Kingdom

2:15–3:00

Social capital creation through community place branding

Steven NELSON and Michael CARROLL, Univ. North Texas, Denton, USA

Discussant: Orsa KEKEZI, Jonkoping International Business School, Sweden

Coffee Break: 3:00–3:30

3:30–4:15

Urban quality of life and capabilities: An experimental study

Bianca BIAGI, Univ. Sassari / GSSI, L'Aquila, Italy

Discussant: Hans WESTLUND, Royal Inst. Technology (KTH)

4:15–5:00

The impact of social networks on local participation: A discrete choice experiment

Rixt BIJKER and Paul KOSTER, Free Univ. Amsterdam, and Eveline VAN LEEUWEN, Wageningen Univ., The Netherlands

Discussant: Alexandra TSVETKOVA, Ohio State Univ., Columbus, USA



Monday, 1:30–5:00 PM

Paper Session 2C ~

Spatial Demography

Chair: Bruce NEWBOLD, McMaster Univ,
Hamilton, Ontario, Canada

1:30–2:15

Can income based sorting modify patterns of ethnic segregation: Re-evaluating Schelling outcomes in neighborhoods in Sweden

Bo MALMBERG, Stockholm Univ., Sweden, and William CLARK, Univ. California, Los Angeles, USA

Discussant: Özge ÖNER, Jönköping International Business School, Sweden

2:15–3:00

Spatial metrics for urban population loss

Rachel S. FRANKLIN and Eric SEYMOUR, Brown Univ., Providence, Rhode Island, USA

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

Coffee Break: 3:00–3:30

3:30–4:15

Location choice of refugees in the hosting country—The Swedish case

Özge ÖNER, Jönköping International Business School, Sweden, and Alessandra FAGGIAN, Gran Sasso Science Inst., L'Aquila, Italy

Discussant: Paola PROIETTI, Gran Sasso Science Inst., L'Aquila, Italy

4:15–5:00

A people-based density perspective on physical/virtual world spaces in the microcosmic city

David PLANE, Univ. Arizona, Tucson, USA, Wangshu MU, Univ. Arizona, Tucson, USA

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



Monday, 1:30–5:00 PM

Paper Session 2D ~

Labor Markets and Wages

Chair: Gordon MULLIGAN, Univ. Arizona, Tucson, USA

1:30–2:15

The role of delineating labour markets in estimating cohort size-wage effects

Duncan ROTH, Inst. Employment Research, Germany

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

2:15–3:00

Knowledge spillovers and wage inequality: Side effects of concentrations of highly educated workers in U.S. metro areas

Rodrigo PEREZ-SILVA and Mark D. PARTRIDGE, Ohio State Univ., Columbus, USA

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

Coffee Break: 3:00–3:30

3:30–4:15

Agglomeration and firm wage inequality: Evidence from China

Anping CHEN and Tianshi DAI, Jinan Univ., China, and Mark D. PARTRIDGE, Ohio State Univ., Columbus, USA

Discussant: Juan Carlos LOPEZ, Univ. Denver, Colorado, USA

4:15–5:00

Gender income differentials in urban South Korea

Yuri MANSURY, Illinois Inst. Technology, Chicago, USA

Discussant: Kevin KANE, Southern California Assoc. Governments, Los Angeles, USA



Monday, 1:30–5:00 PM
Paper Session 2E ~ San Gabriel
Housing and Real Estate

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

1:30–2:15

Impact analysis of housing tax policies on housing demands using a Computable General Equilibrium model of housing market

Euijune KIM, Seoul National Univ., Inseok MOON, Savills Korea, Ayoung KIM, Mississippi State Univ., Starkville, USA, and Haeun JO, Seoul National Univ., Korea

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

2:15–3:00

The impact of leasehold status on apartment price

Herman DONNER, Royal Inst. Technology (KTH), Stockholm, and Fredrik KOPPSCH, Lund Univ., Sweden

Discussant: Matt GNAGEY, Weber State Univ., Ogden, Utah, USA

Coffee Break: 3:00–3:30

3:30–4:15

Revisiting the informal housing challenge through the eyes of Tiebout and Alonso

Eric J. HEIKKILA and Julia HARTEN, Univ. Southern California, Los Angeles, USA

Discussant: Fredrik KOPPSCH, Lund Univ., Sweden

4:15–5:00

Comparative study on predicting apartment price using arima and artificial neural network model

Tae Hyeong LEE and Myung Jin JUN, Chung-Ang Univ., Korea

Discussant: Art ANJOMANI, Univ. Texas, Arlington, USA



Monday, 1:30–5:00 PM
Paper Session 2F ~
Energy and Power

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

1:30–2:15

Determinants of residential solar photovoltaic adoption

Makena COFFMAN, Scott ALLEN, and Sherilyn WEE, Univ. Hawaii, Manoa, USA

Discussant: Quan YUAN, Univ. Southern California, Los Angeles, USA

2:15–3:00

Who pays for retail electric deregulation?: Evidence of cross-subsidization from complete bill data

Noah DORMADY, Ohio State Univ., Columbus, Matthew HOYT, Exeter Associates, and Alfredo ROA-HENRIQUEZ and William WELCH, Ohio State Univ., Columbus, USA

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

Coffee Break: 3:00–3:30

3:30–4:15

Economic consequences of and resilience to a disruption of petroleum trade: The role of seaports in U.S. energy security

Adam ROSE, Dan WEI, and Donald PAUL, Univ. Southern California, Los Angeles, USA

Discussant: Minjeong KANG, Seoul National Univ., Korea

4:15–5:00

A regional impact study of afforestation on climate change in Korea—Focusing on the economies of CO2 reduction

Yaerin YOON, Donghwan AN, and Kwansoo KIM, Seoul National Univ., Korea

Discussant: Chang SEUNG, NOAA Fisheries, USA



Monday, 1:30–5:00 PM

Panel Session 2G ~

The Keith Schwer

Memorial Western States Economic Outlook:

After a Year of the Trump Administration

(Cosponsored by AUBER)

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

Arizona

George HAMMOND, Univ. Arizona, Tucson, USA

Southern California

Raymond SFEIR, Chapman Univ., California, USA

Northern California

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

Colorado

Richard WOBBEKIND, Univ. Colorado, Boulder, USA

Coffee Break: 3:00–3:30

Nevada

Stephen MILLER, Univ. Nevada, Las Vegas, USA

Utah

Juliette TENNERT, Univ. Utah, Salt Lake City, USA

Washington

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

Monday, 5:15–7:30 PM

6th Annual

Getis-Ord Lecture in Spatial Analysis

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

Rethinking History:

The Legacy of Earlier Technological Constraints

Michael F. GOODCHILD, Univ. California, Santa Barbara, USA

Discussant: Luc ANSELIN, Univ. Chicago, Illinois, USA

*A reception will follow the lecture;
All session attendees welcome!*



Tuesday, February 13

8:00 AM–12:15 PM (and 2:15–6:00 PM),

Registration

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

- 3A** Spatial Statistics and GIS
- 3B** People and Place
- 3C** Entrepreneurship
- 3D** Inducing Innovation
- 3E** Local Public Finance I
- 3F** Environmental Economics I

10:00–10:30 AM, **Coffee Break**

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

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

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

- 4A** Economic Development
- 4B** Employment and Human Capital
- 4C** Urban Spatial Structure and Agglomeration
- 4D** Productivity and Trade
- 4E** Local Public Finance II
- 4F** Environmental Economics II

4:00–4:30 PM, **Coffee Break**

6:15–7:45 PM, **President's Reception**



Tuesday, 8:30 AM–12:00 PM

Paper Session 3A ~

Spatial Statistics and GIS

Chair: Sergio REY, Univ. California, Riverside, USA

8:30–9:15

A spatial perspective on the econometrics of program evaluation

Luc ANSELIN and Marynia KOLAK, Univ. Chicago, Illinois, USA

Discussant: Sandy DALL ERBA, Univ. Illinois, Urbana-Champaign, USA

9:15–10:00

Regional and local analyses of TANF policy choices during the Great Recession

Jaewon LIM and Vicky N. ALBERT, Univ. Nevada, Las Vegas, USA

Discussant: Isha RAJBHANDARI, Univ. Puget Sound, Tacoma, Washington, USA

10:30–11:15

Assessing performance of global and local indicators of mobility association under spatial autocorrelation

WEI KANG, Arizona State Univ., Tempe, and Sergio REY, Univ. California, Riverside, USA

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

11:15–12:00

Spatial analytics for exploring retail gasoline price variability

Jing XU and Alan MURRAY, Univ. California, Santa Barbara, USA

Discussant: Sergio REY, Univ. California, Riverside, USA

Coffee Break: 10:00–10:30



Tuesday, 8:30 AM–12:00 PM

Paper Session 3B ~

People and Place

Chair: Jouke VAN DIJK,

Waddenacademie/Univ. Groningen, The Netherlands

8:30–9:15

Rail transit station openings and household mobility decisions

Seva RODNYANSKY, Univ. Southern California, Los Angeles, and Allen PROHOFKY, California Franchise Tax Board, USA

Discussant: Robert MANDUCA, Harvard Univ., Cambridge, Massachusetts, USA

9:15–10:00

Insights into public transit use by Millennials: The Canadian experience

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

Discussant: Seva RODNYANSKY, Univ. Southern California, Los Angeles, USA

Coffee Break: 10:00–10:30

10:30–11:15

Urban revival by Millennials? Net migration patterns of Millennials in top twenty U.S. urban areas, 2000–2010

Bumsoo LEE, Univ. Illinois, Champaign-Urbana, and Yongsung LEE, Georgia Inst. Technology, Atlanta, USA

Discussant: Bo MALMBERG, Stockholm Univ., Sweden

11:15–12:00

Housing and residential location choice of older movers: Implications in an aged society

Sungyop KIM, Univ. Missouri, Kansas City, USA

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



Tuesday, 8:30 AM–12:00 PM

Paper Session 3C ~

Entrepreneurship

Chair: Eveline VAN LEEUWEN,

Wageningen Univ., The Netherlands

8:30–9:15

The entrepreneurship of rural migrants in urbanizing China

Pengyu ZHU, Univ. Hong Kong, China

Discussant: Bianca BIAGI, Univ. Sassari / GSSI, L'Aquila, Italy

9:15–10:00

Feeling good? Household heterogeneity and spatial variations in entrepreneurial wellbeing

Maria ABREU, Univ. Cambridge, United Kingdom, Özge ÖNER, Jönköping International Business School, Sweden, Aleid BROUWER, Univ. Groningen, and Eveline VAN LEEUWEN, Wageningen Univ., The Netherlands

Discussant: Steven NELSON, Univ. North Texas, Denton, USA

Coffee Break: 10:00–10:30

10:30–11:15

Political institutional change and local entrepreneurship: How does a change in the municipal government impact the local business climate?

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

Discussant: Eveline VAN LEEUWEN, Wageningen Univ., The Netherlands

11:15–12:00

Knowledge-based service economy and firm entry: An alternative to the Knowledge Spillover Theory of Entrepreneurship

Alexandra TSVETKOVA and Mark D. PARTRIDGE, Ohio State Univ., Columbus, USA

Discussant: João ROMÃO, Hokkaido Univ., Japan



Tuesday, 8:30 AM–12:00 PM

Paper Session 3D ~

Inducing Innovation

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

8:30–9:15

The spatial scale of (all) industrial clusters and their effect on innovation

Li FANG, Univ. Maryland, College Park, USA

Discussant: Therese NORMAN-MONROE, Jönköping International Business School, Sweden

9:15–10:00

Social capital, local protectionism and regional innovation in China

Ailun XIONG, Chongqing Univ. Technology and Business, China, Hans WESTLUND, Royal Inst. Technology (KTH), Sweden, and Hongyi LI, Chinese Univ. Hong Kong, China

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

Coffee Break: 10:00–10:30

10:30–11:15

Determinants of innovation in Brazilian regions: Evidence from spatial panel data.

Veneziano ARAUJO, Univ. Federal de Sao Paulo, and Renato GARCIA, Univ. Campinas, Brazil

Discussant: Cheng XU, George Washington Univ., Washington, DC, USA

11:15–12:00

Agglomeration, regional social capital, and entrepreneurship

Jae Beum CHO, Cornell Univ., Ithaca, New York, USA

Discussant: Yuting HOU, Singapore Univ. Technology and Design



Tuesday, 8:30 AM–12:00 PM

Paper Session 3E ~ San Gabriel

Local Public Finance I

Chair: Peter GORDON,

Univ. Southern California, Los Angeles, USA

8:30–9:15

Public-private projects, (3Ps), financing of urban healthcare infrastructure in Québec

Michael FARRELL, Univ. Québec, Canada

Discussant: Mehmet TOSUN, Univ. Nevada, Reno, USA

9:15–10:00

Are casinos cannibals or anchors?

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

Discussant: Steven CRAIG, Univ. Houston, Texas, USA

Coffee Break: 10:00–10:30

10:30–11:15

Public provision of a private good: The case of police response to electronic alarms

Erwin A. BLACKSTONE and Simon HAKIM, Temple Univ., Philadelphia, Pennsylvania, and Brian MEEHAN, Berry College

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

11:15–12:00

Creative accounting under negotiations about municipal mergers

Tsuyoshi GOTO, Mika KANDA, and Genki YAMAMOTO, Osaka Univ., Japan

Discussant: Åsa HANSSON, Royal Inst. Technology (KTH), Stockholm, Sweden



Tuesday, 8:30 AM–12:00 PM

Paper Session 3F ~

Environmental Economics I

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

8:30–9:15

Impacts of the Great East Japan Earthquake on manufacturing production: Using spatial econometric model

Suminori TOKUNAGA, Reitaku Univ., and Maria IKEGAWA, MAFF, Japan

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

9:15–10:00

Incorporating risk and uncertainty in the estimation of benefits for Benefit-Cost Analysis

Steven PIPER, Bureau of Reclamation, USA

Discussant: Yaerin YOON, Seoul National Univ., Korea

10:30–11:15

Correlates between urban land use and manufacturing industries characteristics and energy consumption

Hyunsoo KIM, Yunju LEE, Jaesong LEE, and Yeol CHOI, Pusan National Univ., Korea

Discussant: Hyojung LEE, Harvard Univ., Cambridge, Massachusetts, USA

11:15–12:00

Agriculture's transformation and land use change in a post-urban region: A case study of the Stockholm metropolitan region

Hans WESTLUND, Royal Inst. Technology (KTH), and Pia NILSSON, Jönköping International Business School, Sweden

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

Coffee Break: 10:00–10:30



Tuesday, 12:15–2:15 PM

Annual Banquet Luncheon

Chair: Alan MURRAY

Univ. California, Santa Barbara, USA
and 58th WRSA President (2017–2018)

Announcements:

Rachel S. FRANKLIN, WRSA Executive Director

The 22nd Springer-Verlag Prize:

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

The 32nd Charles M. Tiebout Prize:

Presented by: Bruce NEWBOLD
Chair 2017–2018 Reading Committee
56th WRSA President (2015–2016)

NARSC Award Presentation:

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

Presidential Address:

Regional Science in a Resource-Constrained World

Matthias RUTH, 59th WRSA President (2018–2019)

Discussant:

Geoffrey HEWINGS

Univ. Illinois, Urbana-Champaign, USA
and 48th WRSA President (2007–2008)



Tuesday, 2:30–6:00 PM

Paper Session 4A ~

Economic Development

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

2:30–3:15

The “New Silk Road” in the context of Eurasia’s post-1960 trade trajectory

Nathan HUTSON, Univ. Southern California, Los Angeles, USA

Discussant: Euijune KIM, Seoul National Univ., Korea

3:15–4:00

History versus expectations in economic geography: An experimental analysis

Stein ØSTBYE, Uit The Arctic Univ., Norway

Discussant: Eric J HEIKKILA, University of Southern California

Coffee Break: 4:00–4:30

4:30–5:15

Poverty and nongovernmental organizations in Nepal: Some distributional observations

Jitendra PARAJULI and Kingsley HAYNES, George Mason Univ., Fairfax, Virginia, USA

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

5:15–6:00

Measuring the long-term regional economic impacts of high-speed rail in China: Using a dynamic SCGE model

Zhenhua CHEN, Ohio State Univ., Columbus, USA

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



Tuesday, 2:30–6:00 PM

Paper Session 4B ~

Employment and Human Capital

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

2:30–3:15

The fate of the middleman in the information age: The role of human capital in the growth of wholesale services in Sweden

Therese NORMAN-MONROE, Jönköping International Business School, Sweden

Discussant: Marynia KOLAK, Univ. Chicago, Illinois, USA

3:15–4:00

Boomtowns and occupations: Types of jobs created by shale gas boom

Isha RAJBHANDARI, Univ. Puget Sound, Tacoma, Washington, Alessandra FAGGIAN, Gran Sasso Science Inst., L’Aquila, Italy, and Mark

D. PARTRIDGE, Ohio State Univ., Columbus, USA

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

Coffee Break: 4:00–4:30

4:30–5:15

Labor force diversity and firm survival

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

Discussant: Alessandra FAGGIAN, Gran Sasso Science Inst., L’Aquila, Italy

5:15–6:00

Regional preferences for living environment and mobility of researchers and general workers

Hyunkyung LEE and Hongbae KIM, Hanyang Univ., Korea

Discussant: Mark D. PARTRIDGE, Ohio State Univ.



Tuesday, 2:30–6:00 PM

Paper Session 4C ~

Urban Spatial Structure and Agglomeration

Chair: David PLANE, Univ. Arizona, Tucson, USA

2:30–3:15

The intra-urban spatial interactions among employment centers: Evidence from commuting patterns in the Los Angeles metropolitan area

Yuting HOU, Singapore Univ. Technology and Design

Discussant: Eric SEYMOUR, Brown Univ., Providence, Rhode Island, USA

3:15–4:00

Asset markets, credit markets, and inequality: Distributional changes in housing, 1970–2016

Anthony ORLANDO, Univ. Southern California, Los Angeles, USA

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

Coffee Break: 4:00–4:30

4:30–5:15

The spatial structure of U.S. metropolitan employment: New insights from LODES data

Robert MANDUCA, Harvard Univ., Cambridge, Massachusetts, USA

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

5:15–6:00

Agglomeration in Southern California

Peter GORDON, Univ. Southern California, Los Angeles, and John CHO, Southern California Assoc. Governments, Los Angeles, USA

Discussant: Peter NIJKAMP, Tinbergen Inst., The Netherlands



Tuesday, 2:30–6:00 PM

Paper Session 4D ~

Productivity and Trade

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

2:30–3:15

Incorporating port-level foreign trade data into IMPLAN's gravity model to estimate region-specific foreign trade rates

Jennifer THORVALDSON and James SQUIBB, IMPLAN Group, USA

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

3:15–4:00

Identifying coal impacted counties: A county-level supply chain analysis

Randall JACKSON and Péter JÁROSI, West Virginia Univ., Morgantown, USA

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

Coffee Break: 4:00–4:30

4:30–5:15

Evaluating the spatial effects of tourism consumption: A municipalities Input-Output model

Hiroyuki SHIBUSAWA and Naoki SAKAIBARA, Toyohashi Univ. Technology, and Katsuhiro SAKURAI, Risho Univ., Japan

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

5:15–6:00

Big-box retailers, retail employment and wage

Denis J. PERALTA, Zion Bank Corp., and Man-Keun KIM, Utah State Univ., Logan, USA

Discussant: Jae Beum CHO, Cornell Univ., Ithaca, New York, USA



Tuesday, 2:30–6:00 PM
Paper Session 4E ~ San Gabriel
Local Public Finance II

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

2:30–3:15

Inequality in public school expenditures across space and time

Christopher BIOLSI, Western Kentucky Univ., Steven CRAIG, Univ. Houston, Texas, Amrita DHAR, Univ. Mary Washington, Virginia, and Bent E. SØRENSEN, Univ. Houston and CEPR, Texas, USA

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

3:15–4:00

How incentives for regional co-financing depends on the type of investment

Matts ANDERSSON and Åsa HANSSON, Royal Inst. Technology (KTH), Stockholm, and Fredrik KOPPSCH, Lund Univ., Sweden

Discussant: Michael FARRELL, Univ. Québec, Canada

Coffee Break: 4:00–4:30

4:30–5:15

What determines tax incentives and how effective are they?

Åsa HANSSON, Royal Inst. Technology (KTH), Stockholm, Sweden, and Susan PORTER, Univ. Virginia, Charlottesville, USA

Discussant: Tsuyoshi GOTO, Osaka Univ., Japan

5:15–6:00

State and local sales taxes and business activity in the United States

Mehmet TOSUN, Univ. Nevada, Reno, USA

Discussant: Simon HAKIM, Temple Univ., Philadelphia, Pennsylvania, USA



Tuesday, 2:30–6:00 PM
Paper Session 4F ~
Environmental Economics II

Chair: Adam ROSE,
 Univ. Southern California, Los Angeles, USA

2:30–3:15

A multi-regional economic impact analysis of Alaska salmon fishery failures

Chang SEUNG, NOAA Fisheries, USA

Discussant: Jae Ik KIM, Keimyung Univ., Korea

3:15–4:00

Export diversification and ecological footprint: A comparative study on EKC theory among Korea, Japan and China

Hongbo LIU and Hanho KIM, Seoul National Univ., Korea

Discussant: Adam ROSE, Univ. Southern California, Los Angeles, USA

Coffee Break: 4:00–4:30

4:30–5:15

Big freight magnets in my backyard: A longitudinal study of environmental justice in warehousing location

Quan YUAN, Univ. Southern California, Los Angeles, USA

Discussant: Jieun JEONG, Gyeonggi Research Inst., Korea

5:15–6:00

New development, redevelopment and land surface temperature

Jae Ik KIM and Bonil GOO, Keimyung Univ., and Chang Hwan YEO, Daegu Univ., Korea

Discussant: Steven PIPER, Bureau of Reclamation, USA



Tuesday, 6:15–7:45 PM

President's Reception



For all participants and accompanying persons

With the generous support of Northeastern
University, Boston, Massachusetts, USA



Wednesday, February 14

8:00 AM–12:15 PM, Registration

8:30–12:00 PM, Concurrent Sessions:

- 5A** GIS and Locational Analysis I
- 5B** Transportation I
- 5C** Location Matters
- 5D** Development in Remote Regions
- 5E** The Regional Science Academy Session
- 5F** Dealing with Disasters

10:00–10:30 AM, Coffee Break

12:00–1:30 PM, Lunch Break (On your own this day)

12:00–1:30 PM, Annals of Regional Science Editorial Board Meeting *By invitation only*

1:30–5:00 PM, Concurrent Sessions:

- 6A** GIS and Locational Analysis II
- 6B** Transportation II
- 6C** Mobility and Migration
- 6D** Borders and Trade

3:00–3:30 PM, Coffee Break

(5:00 PM, End of Conference)



Wednesday, 8:30 AM–12:00 PM

Paper Session 5A ~

GIS and Locational Analysis I

Chair: Daoqin TONG, Arizona State Univ., Tempe, USA

8:30–9:15

Addressing spatial allocation: Planning for drone-based emergency medical service

Xin FENG and Alan MURRAY, Univ. California, Santa Barbara, USA

Discussant: Wen CHENG, California State Polytechnic Univ., USA

9:15–10:00

Understanding the effects of attribute scale and connectivity on GIS raster network analysis

F. Antonio MEDRANO and Rick CHURCH, Univ. California, Santa Barbara, USA

Discussant: Daoqin TONG, Arizona State Univ., Tempe, USA

Coffee Break: 10:00–10:30

10:30–11:15

Built environment contributing factors to a dominant collision type at intersection level

Dohyung KIM, California State Polytechnic Univ., Pomona, Tom VO, Southern California Assoc. Governments, Los Angeles, and Hina M.

CHANCHLANI, California Polytechnic State Univ., Pomona, USA

Discussant: F. Antonio MEDRANO, Univ. California, Santa Barbara, USA

11:15–12:00

Identification of high crash-risk zones in Southern California

Yongping ZHANG, California State Univ., Tom VO and Frank WEN, Southern California Assoc. Governments, Los Angeles, and Gurdiljot

GILL and Wen CHENG, California State Polytechnic Univ., USA

Discussant: Alan MURRAY, Univ. California, Santa Barbara, USA



Wednesday, 8:30–11:15 AM

Paper Session 5B ~

Transportation I

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

8:30–9:15

Would gasoline cars vanish in 8 years?

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

Discussant: Aisling REYNOLDS-FEIGHAN, Univ. College Dublin, Ireland

9:15–10:00

The influence of attitudes on university bicycle commuting: Considering bicycling experience levels

Mi NAMGUNG, Pusan National Univ., and Hee-Jung JUN, Sungkyunkwan University, Korea

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

Coffee Break: 10:00–10:30

10:30–11:15

The CTPP workplace data for transportation planning: A systematic review

Jung SEO, Tom VO, Southern California Assoc. Governments, Los Angeles, Shinhee LEE, Univ. Southern California, Los Angeles, Frank

WEN, Southern California Assoc. Governments, Los Angeles, USA, and Simon CHOI, Chung-Ang Univ., Korea

Discussant: Zhenhua CHEN, Ohio State Univ., Columbus, USA



Wednesday, 8:30 AM–12:00 PM

Paper Session 5C ~

Location Matters

Chair: Mark BROWN, Statistics Canada, Ottawa

8:30–9:15

Warehouse location choice: A case study in Los Angeles, CA

Sanggyun KANG, Univ. Southern California, Los Angeles, USA

Discussant: Man-Keun KIM, Utah State Univ., Logan, USA

9:15–10:00

Dynamics of retail colocation using longitudinal geo-coded data

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

Discussant: Mark BROWN, Statistics Canada, Ottawa

Coffee Break: 10:00–10:30

10:30–11:15

Firm relocation and age-dependent reliance on agglomeration externalities

Yoojin YI, Seoul National Univ., Korea

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

11:15–12:00

Spatial agglomeration and firm performance in the U.S.

Ayoung KIM, Mississippi State Univ., Starkville, and Michael S. DELGADO, Purdue Univ., West Lafayette, Indiana, USA

Discussant: Matts ANDERSSON, Royal Inst. Technology (KTH), Stockholm, Sweden



Wednesday, 8:30 AM–12:00 PM

Panel Session 5D ~

Development in Remote Regions

Chair: Douglas N. JONES,

Ohio State Univ., Columbus, USA

Resource development rents: Can it promote indigenous community sustainable development?

Thierry RODON, Laval Univ., Québec, Stephan Stephan SCHOTT, Carleton Univ., and Isabel LEMUS-LAUZON, Laval Univ., Québec, Canada

Breaking up was hard to do: The cost of ending the Faro Mine project

Chris SOUTHCOTT, Lakehead Univ., Canada, and Lee HUSKEY, Univ. Alaska, Anchorage, USA

On contractual arrangements in remote regions

Agnès FESTRE, Univ. Nice, France, and Stein ØSTBYE and Jan Yngve SAND, UiT The Arctic Univ., Norway

Coffee Break: 10:00–10:30

Federal contracting with regional Alaska Native Corporations: The changing mix of competitive and noncompetitive contracts

Greg PROTASEL, Univ. Alaska, Anchorage, USA

Racism, economics and identity: What the Alaska state seal should portray

Terrence COLE, Univ. Alaska, Fairbanks, USA



Wednesday, 8:30 AM–12:00 PM

Paper Session 5E ~ San Gabriel
The Regional Science Academy Session

Chair: Peter NIJKAMP, Tinbergen Inst., The Netherlands

Great Mind Presentation: Waldo Tobler

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

Urban cultural vanguards

Edward GLAESER, Harvard Univ., Cambridge, Massachusetts, USA, Karima KOURTIT, Royal Inst. Technology (KTH), Stockholm, Sweden, and Peter NIJKAMP, Tinbergen Inst., The Netherlands

Frontiers of entrepreneurship and economic development research

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

Coffee Break: 10:00–10:30

Ex Libris Session:

Johan Von Thunen: Der Isolierte Staat un Beziehung und Landwirt Schaft und Nationalokonomie

Antoine BAILLY, Univ. Genève, Switzerland

John A. Chipman: External Economies of Scale and Competitive Equilibrium, QJE, 84(3), 347–385

Yoshiro HIGANO, Univ. Tsukuba, Japan

William Garrison (1960): Connectivity of the Interstate Highway System, Papers of Regional Science Association, 6, 121–137

David PLANE, Univ. Arizona, Tucson, USA

Solving the p-median problem on regular and lattice networks

Rick CHURCH and Shaohua WANG, Univ. California, Santa Barbara, USA

Impacts of negative spatial autocorrelation on frequency distributions

Daniel A. GRIFFITH, Univ. Texas, Dallas, USA



Wednesday, 8:30 AM–12:00 PM

Paper Session 5F ~
Dealing with Disasters

Chair: Hiroyuki SHIBUSAWA,
 Toyohashi Univ. Technology, Japan

8:30–9:15

How global trade is fueling California's Great Draught: Teleconnecting local production to global consumption using a nested MRIO approach

ChangKeun PARK, Korea Environment Inst., Jiyoung PARK, Univ. Buffalo, New York, Kuishuang FENG, Univ. Maryland, College Park, USA, and Klaus HUBACEK, Univ. Maryland, College Park, USA

Discussant: Suminori TOKUNAGA, Reitaku Univ., Japan

9:15–10:00

Estimating the long-term effects of Hurricane Katrina

Hyojung LEE, Harvard Univ., Cambridge, Massachusetts, and Gary D. PAINTER, Univ. Southern California, Los Angeles, USA

Discussant: Nathan HUTSON, Univ. Southern California, Los Angeles, USA

Coffee Break: 10:00–10:30

10:30–11:15

Economic impacts of migration and brain drain after Hurricane Katrina

Qin FAN, California State Univ., Fresno, and Meri DAVLASHRIDZE, Texas A&M Univ., Galveston, USA

Discussant: Yeol CHOI, Pusan National Univ., Korea

11:15–12:00

The effect of disasters on migration destinations: Evidence from Hurricane Katrina

Jonathan EYER and Adam ROSE, Univ. Southern California, Los Angeles, Robert DINTERMAN, Ohio State Univ., Columbus, and Noah MILLER, Univ. Southern California, Los Angeles, USA

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



Wednesday, 12:00–1:30 PM

Lunch Break (On your own this day)



Wednesday, 1:30–5:00 PM

Paper Session 6A ~

GIS and Locational Analysis II

Chair: Daniel A. GRIFFITH, Univ. Texas, Dallas, USA

1:30–2:15

Comparisons of logistic regression and artificial neural networks in predicting urban land use conversion in Seoul

Myung Jin JUN, Chung-Ang Univ., Korea

Discussant: Daniel A. GRIFFITH, Univ. Texas, Dallas, USA

2:15–3:00

Simultaneous investigation of different severity crashes on roadway segments using highway safety information systems data of California

Gurdiljot GILL, Wen CHENG, California State Polytechnic Univ., Yongping ZHANG, California State Univ., and Tom VO and Frank WEN, Southern California Assoc. Governments, Los Angeles, USA

Discussant: Xin FENG, Univ. California, Santa Barbara, USA

Coffee Break: 3:00–3:30

3:30–4:15

Location Analysis: Developments on the horizon

Daoqin TONG, Arizona State Univ., Tempe, USA, Alan MURRAY, Univ. California, Santa Barbara, USA

Discussant: Yongping ZHANG, California State Univ., USA

4:15–5:00

Food accessibility and food diversity: Exploring the role of small independent grocers from a spatial-temporal perspective

Yang BAO, Univ. Arizona, Tucson, Daoqin TONG, Arizona State Univ., Tempe, and David PLANE and Stephanie BUECHLER, Univ. Arizona, Tucson, USA

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



Wednesday, 1:30–4:15 PM

Paper Session 6B ~

Transportation II

Chair: Rick CHURCH,

Univ. California, Santa Barbara, USA

1:30–2:15

Application of the archived data management system to analyze intra-metropolitan variation in highway traffic performance

Genevieve GIULIANO, Univ. Southern California, Los Angeles, USA, Sandip CHAKRABARTI, India Inst. Management

Discussant: Jung SEO, Southern California Assoc. Governments, Los Angeles, USA

2:15–3:00

The impacts of bus rapid transit (brt) and subway stations on land use change in the Seoul metropolitan area

Jieun JEONG, Gyeonggi Research Inst., and Kihyun KWON and Myung Jin JUN, Chung-Ang Univ., Korea

Discussant: Mi NAMGUNG, Pusan National Univ., Korea

Coffee Break: 3:00–3:30

3:30–4:15

Air traffic flow analysis in major global regions

Aisling REYNOLDS-FEIGHAN, Univ. College Dublin, Ireland

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



Wednesday, 1:30–4:15 PM

Paper Session 6C ~

Mobility and Migration

Chair: Daniel CROWN, Ohio State Univ., Columbus, USA

1:30–2:15

High-skilled immigration and the skill composition of native workers

Daniel CROWN, Ohio State Univ., Columbus, USA, Alessandra FAGGIAN, Gran Sasso Science Inst., L'Aquila, Italy, and Jonathan CORCORAN, Univ. Queensland, Brisbane, Australia

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

2:15–3:00

Graduate migration in Germany—New evidence from an event history analysis

Christian TEICHERT, Univ. Hannover, and Annekatrien NIEBUHR, Anja ROSSEN, and Anne OTTO, Inst. Employment Research (IAB), Germany

Discussant: Stein ØSTBYE, Uit The Arctic Univ. Norway

Coffee Break: 3:00–3:30

3:30–4:15

International commuting from border regions in the Netherlands, Germany and Belgium

Jouke VAN DIJK, Waddenacademie/Univ. Groningen, The Netherlands

Discussant: Daniel CROWN, Ohio State Univ., Columbus, USA



Wednesday, 1:30–5:00 PM

Paper Session 6D ~

Borders and Trade

Chair: Kingsley HAYNES,
George Mason Univ., Fairfax, Virginia, USA

1:30–2:15

Future port development strategies for reconstructing North Korea after reunification

Jonghoon PARK, Seoul National Univ., Korea, Dongin CHO, Univ. Buffalo, New York, USA, ChangKeun PARK, Korea Environment Inst., Sungwoo LEE, Korea Maritime Inst., Jiyoung PARK, Univ. Buffalo, New York, USA, and Yongjin AHN, Daegu University

Discussant: Jennifer THORVALDSON, IMPLAN Group, USA

2:15–3:00

Measuring and anticipating territories vulnerability to the risks of offshoring activities

El Mouhoub MOUHOUD, Univ. Paris Dauphine, France

Discussant: Ayoung KIM, Mississippi State Univ., Starkville, USA

Coffee Break: 3:00–3:30

3:30–4:15

Automation and offshoring in durable goods manufacturing in Indiana

Timothy SLAPER, Indiana Univ., Bloomington, USA

Discussant: Sanggyun KANG, Univ. Southern California, Los Angeles, USA

4:15–5:00

Estimating the effect of changing Canada-US border costs on North American trade patterns and expenditures

Mark BROWN, Afshan DAR-BRODEUR, and Jay DIXON, Statistics Canada, Ottawa

Discussant: El Mouhoub MOUHOUD, Univ. Paris Dauphine, France

(Conference ends at 5:00 PM)



Program Participant Locator

Session assignments are listed following each participant's name:

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

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

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

OS = Opening Session on Sunday Afternoon

WB = WRSA Board Meeting 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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~G~

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