



**Preliminary Meeting Program  
Western Regional Science Association  
58th Annual Meeting**

**Marriott Napa Valley | Napa, California  
February 10–13, 2019**

**Saturday, February 9**

12:00–6:00 PM, **Registration** (Stag's Leap)

12:50–5:00 PM, **Pre-WRSA Workshop: The Regional Science Academy - ABC Workshop I** (Stag's Leap)

*Saturday, 12:00–5:00 PM*

**The Regional Science Academy - ABC (Advanced Brainstorm Carrefour) Workshop I  
Stag's Leap**

12:00

**Refreshments**

12:50–1:00

**Greeting and Introduction to the program of TRSA ABC Workshop I**

Peter NIJKAMP, Jheronimus Academy of Data Science (JADS), The Netherlands

**Part 1**

Chair: Hans WESTLUND, KTH Royal Inst. Technology, Sweden

1:00–1:30

**Blockchains and employment effects in regions**

Roger R. STOUGH, Raj KULKARNI, and Laurie SCHINTLER, George Mason Univ., Arlington, Virginia, USA, and Nishit SAHAY, RR&S Consulting Group, Fairfax, Virginia, USA

1:30–2:00

**Labor markets, global value chains and digitalization**

Martin ANDERSSON, Blekinge Inst. Technology, Sweden

2:00–2:30

**Migrant entrepreneurship in perspective**

Karima KOURTIT, Jheronimus Academy of Data Science (JADS) & Eindhoven Univ. Technology, The Netherlands

2:30–3:00

**Estimating the spatial effects of CO<sub>2</sub> emission control policy in the transportation sector among the U.S. states**

Jaewon LIM, Univ. Nevada, Las Vegas, USA, Doohwan WON, Pusan National Univ., Korea, and Sandy DALL'ERBA, Univ. Illinois, Urbana-Champaign, USA, Aaron Colletta, Univ. Nevada, Las Vegas, USA

*Coffee Break: 3:00–3:30*

**Part 2**

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

3:30–4:00

**Aging labor and industrial digitization, and its implications for non-urban economic competitiveness**

Terry CLOWER, George Mason Univ., Arlington, Virginia, USA

4:00–4:30

**Artificial intelligence and digitalization: Labor force effects going forward**

Laurie SCHINTLER, George Mason Univ., Arlington, Virginia, USA

4:30–5:00

**Reflections on growth policies in analytical planning models for cities**

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

**Sunday, February 10**

8:00 AM–5:30 PM, **Registration** (Grand Ballroom Foyer)

8:15 AM–12:30 PM, **Pre-WRSA Workshop: The Regional Science Academy - ABC Workshop II** (Stag's Leap)

3:30 PM–5:15 PM, **The 9th Annual Lay James Gibson Opening Session** (Grand Ballroom)

5:30 PM–7:00 PM, **Welcome Reception** (Vintner's Ballroom)

*Sunday, 8:15 AM–12:30 PM*

**The Regional Science Academy - ABC (Advanced Brainstorm Carrefour) Workshop II**  
**Stag's Leap**

8:15

**Refreshments**

8:50–9:00

**Greeting and Introduction to the program of TRSA ABC Workshop II**

Roger R. STOUGH, George Mason Univ., Arlington, Virginia, USA and Neil REID, Univ. of Toledo, Ohio, USA

**Part 3**

Chair: Karima KOURTIT, JADS & Eindhoven Univ. Technology, The Netherlands

9:00–9:30

**Labor challenges facing the hospitality industry**

Neil REID, Univ. Toledo, Ohio, USA

9:30–10:00

**Political economy of asymmetric aging, productivity and economic growth**

Mehmet TOSUN, Univ. Nevada, Reno, USA

10:00–10:30

**Regional science and spatial planning: The need to re-connect**

Peter BATEY, Univ. Liverpool, United Kingdom

*Coffee Break: 10:30–11:00*

11:00–11:30

**Modelling endogenous regional employment performance in Australia**

Bob STIMSON, Univ. Melbourne, Australia

11:30–12:00

**The post-urban world: How we got there and where we are going**

Hans WESTLUND, KTH Royal Inst. Technology, Sweden

12:00–12:30

**Summary & Discussion of the ABC (Advanced Brainstorm Carrefour)**

Peter NIJKAMP, JADS, The Netherlands, Karima KOURTIT, JADS & Eindhoven Univ. Technology, The Netherlands, Neil REID, Univ. of Toledo, Ohio, USA, and Roger R. STOUGH, George Mason Univ., Arlington, Virginia, USA

*Sunday, 3:30 PM–5:15 PM*

**The 9th Annual Lay James Gibson Opening Session**  
**Grand Ballroom**

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

**“Automated Transport Technology, Regional Economies, and Land Use”**

Ralph MCLAUGHLIN, CoreLogic, Washington D.C., USA

Discussant: Claude GRUEN, GRUEN GRUEN + ASSOCIATES, San Francisco, California, USA

*Sunday, 5:30 PM–7:00 PM*

**Welcome Reception**

**Wine Tasting**

**Vintner's Ballroom**

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

**Monday, February 11**

8:00 AM–12:15 PM, **Registration** (Grand Ballroom Foyer)

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

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

- 1A Jobs and Economic Development (Syrah)
- 1B Community Development Issues (Merlot)
- 1C Minority & Inequality (Cabernet)
- 1D Economic Impact (Zinfandel)
- 1E Agglomeration, Human Capital & Innovation (Stag's Leap)
- 1F The Keith Schwer Memorial Western State Economic Outlook (I) – **starts at 10:30 AM** (Howell Mountain)

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

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

12:10–1:20 PM, **Annals of Regional Science Board Meeting** *By invitation only* (Atlas Peak)

1:00–5:00 PM, **Registration Continues** (Grand Ballroom Foyer)

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

- 2A Local Public Finance (Syrah)
- 2B Infrastructure & Development (Merlot)
- 2C Public Health (Cabernet)
- 2D Spatial Statistics & GIS (I) (Zinfandel)
- 2E Population & Mobility (Stag's Leap)
- 2F The Keith Schwer Memorial Western State Economic Outlook (II) – (Howell Mountain)

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

5:15–7:30 PM, **7th Annual Getis-Ord Lecture in Spatial Analysis** (Napa Valley Ballroom)

7:30–8:30 PM, **Getis-Ord Lecture Reception** (Vintner's Ballroom)

*Monday, 8:30–10:00 AM*

**WRSA Board Meeting** *(by invitation only)*

**Howell Mountain**

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

*Monday, 8:30 AM–12:00 PM*

**Paper Session 1A ~ Syrah**

**Jobs and Economic Development**

Chair: Asao ANDO, Tohoku Univ., Japan

8:30–9:15

**Proposing a new categorization approach for routine, non-routine, and manual occupations with analysis of polarization phenomena in Japan**

Osamu SUGIMOTO, Josai Univ., Japan

Discussant: HyunJi Lee, Seoul National Univ., Korea

9:15–10:00

**Governance and distance: Evolution of labor market institutions**

Masaki NAKABAYASHI, Univ. Tokyo, Japan

Discussant: Charlie KARLSSON, Jönköping International Business School, Sweden

*Coffee Break: 10:00–10:30*

10:30–11:15

**Import competition, job polarization, and geography: Plant-level skill demand in the U.S.**

Mina KIM, Bureau of Labor Statistics, Washington D.C., USA, Jooyoun PARK, Kent State Univ., Ohio, USA

Discussant: Anne ANDERS, Univ. Houston, Texas, USA

11:15–12:00

**Do robots increase wages? A topic modeling approach at individual and metropolitan levels**

Nancey Green LEIGH, Heonyeong LEE, and Benjamin R. KRAFT, Georgia Inst. Technology, Atlanta, USA

Discussant: Koichi FUKUMURA, Univ. Tokyo, Japan

*Monday, 8:30 AM–12:00 PM*

***Paper Session 1B ~ Merlot  
Community Development Issues***

Chair: Stephan GOETZ, Pennsylvania State Univ., University Park, USA

8:30–9:15

***Against survivorship bias: Are there lessons regional economists can learn from small and economically lagging U.S. counties?***

Timothy SLAPER, Indiana Univ., Bloomington, USA

Discussant: Yuko AKUNE, Nihon Univ., Japan

9:15–10:00

***Social network analysis on the development in social farming: A case of Garfagnana, Italy***

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

Discussant: Ethan GRUMSTRUP, Univ. Nevada, Reno, USA

*Coffee Break: 10:00–10:30*

10:30–11:15

***Template-based software architecture for modular and reproducible urban modeling***

Samuel MAURER and Paul WADDELL, Univ. California, Berkeley, USA

Discussant: Pengyu ZHU, Univ. Hong Kong, China

11:15–12:00

***Regional knowledge level and economic resilience***

Rui YAN and Timothy SLAPER, Indiana Univ., Bloomington, USA

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

*Monday, 8:30 AM–12:00 PM*

***Paper Session 1C ~ Cabernet  
Minority & Inequality***

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

8:30–9:15

***Estimation of life satisfaction and development of welfare policy using panel welfare data***

Deokho CHO, Changwhan YEO, and Yoonhee SEO, Daegu Univ., Korea

Discussant: Richard GEARHART, California State Univ., Bakersfield, USA

9:15–10:00

***Recruitment of child soldiers in Colombia: a spatial approach***

Juan SAYAGO-GOMEZ, Universidad Icesi, Colombia

Discussant: Yong KIM, Purdue Univ., W. Lafayette, Indiana, USA

*Coffee Break: 10:00–10:30*

10:30–11:15

***Hate crimes and minority owned businesses***

Karl GEISLER, Idaho State Univ., Pocatello, USA, Carl E. ENOMOTO and Theophilus DJABA, New Mexico State Univ., Las Cruces, USA

Discussant: Karima KOURTIT, JADS & Eindhoven Univ. Technology, The Netherlands

11:15–12:00

***The bottom, the typical, and the top of the income distribution in South Korea: A quantile regression analysis***

Yuri MANSURY, Illinois Inst. Technology, Chicago, USA, and Jae Beum CHO, Indiana Univ., Bloomington, USA

Discussant: Joe FRANCIS, Cornell Univ., Ithaca, New York, USA

*Monday, 8:30 AM–12:00 PM*

***Paper Session 1D ~ Zinfandel  
Economic Impact***

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

8:30–9:15

***An economic impact analysis of oil and natural gas development in the Permian Basin***

Haoying WANG, New Mexico Tech, Socorro, USA

Discussant: Michael BETZ, Ohio State Univ., Columbus, USA

9:15–10:00

***Roads and the geography of economic activities in Mexico***

Brian BLANKESPOOR, Théophile BOUGNA, and Harris SELOD, World Bank, Washington, DC, USA, and Rafael GARDUNO-RIVERA, CIDE & Universidad Panamericana, Mexico

Discussant: Qiao WU, Univ. Southern California, Los Angeles, USA

*Coffee Break: 10:00–10:30*

10:30–11:15

**Oil prices, the housing market and spillover effects: Evidence from California's central valley**

Nyakundi MICHIEKA, California State Univ., Bakersfield, USA and Yiannis AMPATZIDIS, Univ. Florida, Gainesville, USA

Discussant: Seva RODNYANSKY, Univ. California, Berkeley, USA

11:15–12:00

**Parallel imports in large developing countries**

Dao-Zhi ZENG, Tohoku Univ., Japan

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

Monday, 8:30 AM–12:00 PM

**Paper Session 1E ~ Stag's Leap**

**Agglomeration, Human Capital & Innovation**

Chair: Mark PARTRIDGE, Ohio State Univ., Columbus, USA

8:30–9:15

**Premium on self-employment experience for skilled and unskilled workers**

Johan KLAESSON, Johan E. EKLUND, and Emma LAPPI, Jönköping International Business School, Sweden

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

9:15–10:00

**Do dynamic business environments differentially attract high- and low-skill labor force participants? Evidence from the NLSY97**

Sydney SCHREINER, Ohio State Univ., Columbus, USA

Discussant: Oudom HEAN, Ohio State Univ., Columbus, USA

Coffee Break: 10:00–10:30

10:30–11:15

**Regional, cultural and institutional factors which affect the formation of human capital in the modern university**

Michael FARRELL, Univ. Quebec, Québec City, Canada

Discussant: Ingmar R. PRUCHA, Univ. Maryland, College Park, USA

Monday, 10:30 AM–12:00 PM

**Paper Session 1F ~ Howell Mountain**

**The Keith Schwer Memorial Western State Economic Outlook I: Will the Recovery Ever End?**

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

10:30–11:00

**Arizona**

George HAMMOND, Univ. Arizona, Tucson, USA

11:00–11:30

**Utah**

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

11:30–12:00

**Colorado**

Richard R. WOBBEKIND, Univ. Colorado, Boulder, USA

Monday, 1:30 PM–5:00 PM

**Paper Session 2A ~ Syrah**

**Local Public Finance**

Chair: Terry CLOWER, George Mason Univ., Arlington, Virginia, USA

1:30–2:15

**Samuelson meets Federalism: Local production of a national public good**

Steven G. CRAIG, Univ. Houston, Texas, USA, Jan K. BRUECKNER, Univ. California, Irvine, USA, Kangoh LEE, San Diego State Univ., California, USA

Discussant: Peter NIJKAMP, Jheronimus Academy of Data Science (JADS), The Netherlands

2:15–3:00

**New findings of the local parcel tax in California cities, counties, and school districts**

Soomi LEE, Univ. La Verne, California, USA

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

Coffee Break: 3:00–3:30

3:30–4:15

**Property tax, local sales tax and business activity: A spatial analysis**

Mehmet TOSUN and Quan SUN, Univ. Nevada, Reno, USA

Discussant: Stephan GOETZ, Pennsylvania State Univ., University Park, USA

4:15–5:00

**Can bureaucrats manipulate policy outcomes?**

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

Discussant: Chad CHRIESTENSON, Univ. Wisconsin, Madison, USA

*Monday, 1:30 PM–5:00 PM*

**Paper Session 2B ~ Merlot**

**Infrastructure & Development**

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

1:30–2:15

**Broadband and narrowband internet in Nepal**

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

Discussant: Bob STIMSON, Univ. Melbourne, Australia

2:15–3:00

**Is higher-quality land developed earlier?**

Juan Carlos LOPEZ, Univ. Denver, Colorado, USA and Richard ARNOTT, Univ. California, Riverside, USA

Discussant: Ina BLIND, Uppsala Univ., Sweden

*Coffee Break: 3:00–3:30*

3:30–4:15

**Seoul as an urban empire: Evidence from spatial interaction models**

John CARRUTHERS and Su-Jung LEE, George Washington Univ., Washington DC, USA

Discussant: Myounggu KANG, Univ. Seoul, Korea

4:15–5:00

**Rail transit expansion and its impact on urban infill dynamics**

Jae Hong KIM and Douglas HOUSTON, Univ. California, Irvine, USA, Ashley (Wan-Tzu) LO, Tohoku Univ., Japan, and Jaewoo CHO, Korea Advanced Inst. Science and Technology, Korea

Discussant: Meng YU, Univ. Hong Kong, China

*Monday, 1:30 PM–5:00 PM*

**Paper Session 2C ~ Cabernet**

**Public Health**

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

1:30–2:15

**Estimating the effect of Colorado's recreational marijuana legalization in 2012 on non-marijuana related drug abuse violations: A synthetic control method analysis**

Qiao WU and Yougeng LU, Univ. Southern California, Los Angeles, USA

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

2:15–3:00

**Shale boom, drug bust: Did the oil and gas boom dampen or exacerbate the drug crisis in rural American communities?**

Michael BETZ and Lauren E. JONES, Ohio State Univ., Columbus, USA

Discussant: Donghwan AN, Seoul National Univ., Korea

*Coffee Break: 3:00–3:30*

3:30–4:15

**Appalachian deliverance: The impact of provider density on opioid prescribing rates**

Richard GEARHART and Nyakundi MICHIEKA, California State Univ., Bakersfield, USA, and Anne ANDERS, Univ. Houston, Texas, USA

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

4:15–5:00

**Online personal health research: Urban-rural participatory diversity**

Peter STENBERG, USDA Economic Research Service, Washington DC, USA

Discussant: Deokho CHO, Daegu Univ., Korea

*Monday, 1:30 PM–5:00 PM*  
**Paper Session 2D ~ Zinfandel**  
**Spatial Statistics & GIS (I)**

Chair: Irene FARAH, Univ. Chicago, Illinois, USA

1:30–2:15

**Fast MCMC estimation of multiple *W*-matrix spatial regression models and Metropolis-Hastings Monte Carlo log marginal likelihoods**

James LESAGE, Texas State Univ., San Marcos, USA

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

2:15–3:00

**Simultaneous equations models with higher-order spatial or social network interactions**

Ingmar R. PRUCHA, Univ. Maryland, College Park, USA

Discussant: Peter ROGERSON, Univ. Buffalo, New York, USA

*Coffee Break: 3:00–3:30*

3:30–4:15

**Comparing spatial patterns of sole proprietorship and corporate payday lenders in Seoul, Korea**

Hyoungjun KIM, Bokyeong LEE, and So Young SOHN, Yonsei Univ., Korea

Discussant: Peter BATEY, Univ. Liverpool, United Kingdom

4:15–5:00

**EVALUATING MICROENTERPRISE DEFINITIONS TO MEASURE MICROENTERPRISE ACTIVITY IN THE US.**

Sergio CONTRERAS, Univ. Illinois, Urbana-Champaign, USA

Discussant: Maria IKEGAWA, Policy Research Inst., MAFF, Japan

*Monday, 1:30 PM–5:00 PM*  
**Paper Session 2E ~ Stag's Leap**  
**Population & Mobility**

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

1:30–2:15

**Local industrial cohesion and its effects on economic performance and business dynamics in US counties**

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

Discussant: Asao ANDO, Tohoku Univ., Japan

2:15–3:00

**Temporary migration as a strategy against weather shocks: Evidence from rural India**

Yong KIM, Juan P. SESMERO, and Brigitte S. WALDORF, Purdue Univ., West Lafayette, Indiana, USA

Discussant: Mark BROWN, Statistics Canada, Ottawa, Ontario, Canada

*Coffee Break: 3:00–3:30*

3:30–4:15

**The future of our Metropolis: The relative importance of occupational variations and metropolitan types in explaining the propensities to work at home**

Pengyu ZHU, Univ. Hong Kong, China and Peter GORDON, Univ. Southern California, Los Angeles, USA

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

4:15–5:00

**Using ACS summary data to accurately estimate housing and occupancy**

Joe FRANCIS, Cornell Univ., Ithaca, New York, USA

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

*Monday, 1:30 PM–5:00 PM*  
**Paper Session 2F ~ Howell Mountain**  
**The Keith Schwer Memorial Western State Economic Outlook (II): Will the Recovery Ever End?**

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

1:30–2:00

**Washington**

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

2:00–2:30

**Northern California**

Jeff MICHAEL, Univ. the Pacific, Stockton, California, USA

*Coffee Break: 2:30–3:00*

3:00–3:40

***Southern California***

Raymond SFEIR, Chapman Univ., Orange, California, USA

3:40–4:20

***Nevada***

Stephen MILLER, Univ. Nevada, Las Vegas, USA

4:20–5:00

***Florida***

Sean SNAITH, Univ. Central Florida, Orlando, USA

*Monday, 5:15 PM–7:30 PM*

***The 7th Annual Getis-Ord Lecture in Spatial Analysis  
Napa Valley Ballroom***

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

***“Scaling Up Urban Models: Extending Spatial Systems to Embrace Hierarchies of Interaction”***

Michael BATTY, Univ. College London, United Kingdom

Discussant: Peter BATEY, Univ. Liverpool, United Kingdom

*Monday, 7:30 PM–8:30 PM*

***Getis-Ord Reception  
Vintner's Ballroom***



## **Tuesday, February 12**

8:00 AM–12:15 PM, **Registration** (Grand Ballroom Foyer)

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

- 3A** TRSA-Special Academic Session – **starts at 8:00 AM** (Syrah)
- 3B** Housing & Real Estate (Merlot)
- 3C** Agriculture & Regional Development (Cabernet)
- 3D** Spatial Statistics & GIS (II) (Zinfandel)
- 3E** Migration & Labor Market (Atlas Peak)
- 3F** Environmental Issues (I) (Castle Peak)

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

12:15–2:15 PM, **Annual Banquet Luncheon** (Napa Valley Ballroom)

2:15–6:00 PM, **Registration Continues** (Grand Ballroom Foyer)

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

- 4A** Input-Output Analysis (Syrah)
- 4B** Remote Regions (I): Economics, Politics and Resource Development (Merlot)
- 4C** Transportation & Urban Forms (Cabernet)
- 4D** Regional Economic Development (Zinfandel)
- 4E** Migration & Human Capital (Atlas Peak)
- 4F** Environmental Issues (II) (Castle Peak)

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

6:15–7:45 PM, **President's Reception** (Napa Valley Ballroom)

*Tuesday, 8:00 AM–12:00 PM*

*Paper Session 3A ~ Syrah*

*The Regional Science Academy–Special Academic Session (SAS)*

8:00–8:10

### **Welcome Remark**

Hans WESTLUND, KTH Royal Inst. Technology, Sweden

### **Signatures of Regional Science I**

**The Regional Science Academy (TRSA) Lecture Series: “The Voice of Regional Science”**

Chair: Peter BATEY, Univ. Liverpool, United Kingdom

8:10–8:40

### **Digitization, age and entrepreneurship**

Ting ZHANG, Univ. Baltimore, USA and Roger R. STOUGH, George Mason Univ., Arlington, Virginia, USA

8:40–9:10

### **Return of migrants and decontamination after the 2011 Fukushima nuclear power plant disaster**

Shingo NAGAMATSU, Kansai Univ., Japan, Adam ROSE and Jonathan EYER, Univ. Southern California, Los Angeles, USA

9:10–9:40

### **Labour productivity, income and leisure**

Peter NIJKAMP, Jheronimus Academy of Data Science (JADS), The Netherlands

9:40–10:10

### **Presentation of new book on 'Modelling Aging and Migration Effects on Spatial Labor Markets'**

Roger R. STOUGH, George Mason Univ., Arlington, Virginia, USA, Peter NIJKAMP, Jheronimus Academy of Data Science (JADS), The Netherlands, Karima KOURTIT, Jheronimus Academy of Data Science (JADS) & Eindhoven Univ. Technology, The Netherlands, and Uwe BLIEN, Inst. Labor Economics (IZA), Germany

*Coffee Break: 10:10–10:30*

**Signatures of Regional Science II**  
**The Regional Science Academy (TRSA) - Ex Libris Session**  
Chair: Hans WESTLUND, KTH Royal Inst. Technology, Sweden

10:30–11:30

**Thinking about Walter Isard, Ben Stevens and Britt Harris**  
Peter GORDON, Univ. Southern California, Los Angeles, USA

**Ben Higgins and regional science**  
Kingsley HAYNES, George Mason Univ. Arlington, Virginia, USA

**Contributions of Lawrence Klein and Michael Mischaikow to regional science**  
Jack OSMAN, San Francisco State Univ., California, USA

**Standing on the shoulders of giants**  
Arthur GETIS, San Diego State Univ., California, USA

**Signatures of Regional Science III**  
**The Regional Science Academy (TRSA) – Great Minds in Regional Science**  
Chair: Peter NIJKAMP, Jheronimus Academy of Data Science (JADS), The Netherlands

11:30–12:00

**Ed Mills' scholarship and relevance for regional science**  
Tschangho John KIM, Univ. Illinois, Urbana-Champaign, USA

*Tuesday, 8:30 AM–12:00 PM*  
**Paper Session 3B ~ Merlot**  
**Housing & Real Estate**

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

8:30–9:15

**Declining access to affordable low-income housing due to middle-class competition: Evidence from US metropolitan areas, 2006 to 2016**

JungHo PARK, Univ. Southern California, Los Angeles, USA  
Discussant: Sutee ANANTSUKSOMSRI, Chulalongkorn Univ., Thailand

9:15–10:00

**The physical legacy of racism: How redlining cemented the modern built environment**  
Seva RODNYANSKY, Univ. California, Berkeley, USA, Anthony W. ORLANDO, California Polytechnic State Univ., Pomona, USA, and  
Brian Y. AN, Univ. Southern California, Los Angeles, USA  
Discussant: Samuel MAURER, Univ. California, Berkeley, USA

*Coffee Break: 3:00–3:30*

10:30–11:15

**Local house price diffusion during the boom, bust, and recovery: Evidence from Los Angeles**  
Thom MALONE, Georgia Inst. Technology, Atlanta, USA and Richard PEISER, Harvard Univ., Cambridge, Massachusetts, USA  
Discussant: Yuting HOU, Singapore Univ. Technology and Design, Singapore

11:15–12:00

**Parent and children homeownership: Evidence from tenure conversions in Stockholm**  
Ina BLIND and Matz DAHLBERG, Uppsala Univ., Sweden  
Discussant: Juan SAYAGO-GOMEZ, Universidad Icesi, Mexico

*Tuesday, 8:30 AM–12:00 PM*

**Paper Session 3C ~ Cabernet**  
**Agriculture & Regional Development**

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

8:30–9:15

**An analysis of climate change effects on risk and spatial distribution of rice production in South Korea**  
Yongjoon KIM, Kwansoo KIM, and Donghwan AN, Seoul National Univ., Korea  
Discussant: Karelys GUZMAN, Univ. Illinois, Urbana-Champaign, USA

9:15–10:00

**The trends in farm and nonfarm employment in the U.S.: A granger causality study with nonstationary panels**  
Zheng TIAN and Stephan GOETZ, Pennsylvania State Univ., University Park, USA  
Discussant: Eric J. HEIKKILA, Univ. Southern California, Los Angeles, USA

*Coffee Break: 10:00–10:30*

10:30–11:15

***The fall and rise of hops in American brewing***

Neil REID, Univ. Of Toledo, Ohio, USA, Stephan GOETZ, Elizabeth DOBIS, Pennsylvania State Univ., University Park, USA, Paul GOTTLIEB, Rutgers Univ., New Brunswick, New Jersey, USA, and Anil HIRA, Simon Fraser Univ. Vancouver, British Columbia, Canada

Discussant: Jooyoun PARK, Kent State Univ., Ohio, USA

11:15–12:00

***Heterogeneity of producers in Japanese regional agriculture: Using microdata***

Yuko AKUNE, Nihon Univ., Japan

Discussant: Kwansoo KIM, Seoul National Univ., Korea

*Tuesday, 8:30 AM–12:00 PM*  
***Paper Session 3D ~ Zinfandel***  
***Spatial Statistics & GIS (II)***

Chair: Ingmar R. PRUCHA, Univ. Maryland, College Park, USA

8:30–9:15

***Fishing for neighborhood trajectory patterns in the United States - a comparison of sequence analysis methods***

Wei KANG, Sergio REY, Univ. California, Riverside, USA, Levi J. WOLF, Univ. Bristol, United Kingdom, Elijah KNAAP, and Su Y. HAN, Univ. California, Riverside, USA

Discussant: James LESAGE, Texas State Univ., San Marcos, USA

9:15–10:00

***Current food accessibility problems in Japan: Using a food accessibility map based on the grid-square statistics of "2015 Population Census" and "Census of Commerce"***

Maria IKEGAWA, Policy Research Inst., MAFF, Japan

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

*Coffee Break: 10:00–10:30*

10:30–11:15

***Inferential statistics with spatial data***

Peter ROGERSON, Univ. Buffalo, New York, USA

Discussant: Sergio CONTRERAS, Univ. Illinois, Urbana-Champaign, USA

11:15–12:00

***Mexico's distal effects on food insecurity: A geospatial analysis***

Irene FARAH, Univ. Chicago, Illinois, USA

Discussant: Nij TONTISIRIN, Thammasat Univ., Thailand

*Tuesday, 8:30 AM–12:00 PM*  
***Paper Session 3E ~ Atlas Peak***  
***Migration & Labor Market***

Chair: Stein ØSTBYE, UiT The Arctic Univ. Norway, Norway

8:30–9:15

***Employment patterns of migrants and residents in the Buffalo-Niagara region***

Sharmistha BAGCHI-SEN, Torsten SCHUNDER, and Xiaonan TAI, Univ. Buffalo, New York, USA

Discussant: Olle WESTERLUND, Umeå Univ., Sweden

9:15–10:00

***Labour mobility: The roles of intra- and interfirm migration in Canada***

Mark BROWN, Statistics Canada, Ottawa, Ontario, Canada, Bruce NEWBOLD, McMaster Univ., Hamilton, Ontario, Canada, Jesse TWEEDLE, Statistics Canada, Ottawa, Ontario, Canada

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

*Coffee Break: 10:00–10:30*

10:30–11:15

***Minimum wage competition***

Koichi FUKUMURA and Atsushi YAMAGISHI, Univ. Tokyo, Japan

Discussant: Michel DIMOU, Univ. Toulon, France

11:15–12:00

***Transient solutions to a two-country dynamic model considering work skills and migration***

Asao ANDO, Tohoku Univ., Japan and Tomohiro YOKOYAMA, Tohoku Electric Power Co., Japan

Discussant: Sydney SCHREINER, Ohio State Univ., Columbus, USA

*Tuesday, 8:30 AM–12:00 PM*  
***Paper Session 3F ~ Castle Peak***  
***Environmental Issues (I)***

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

8:30–9:15

***Do factors contributing to appearance and success of conservation referenda in the West differ from those found in other regions?***

Chad CHRIESTENSON, Univ. Wisconsin, Madison, USA, and Dawn THILMANY, Colorado State Univ., Fort Collins, USA

Discussant: Soogwan DOH, Daegu Catholic Univ., Korea

9:15–10:00

***Effect of the national-level spatial distribution of cities on national transport CO<sub>2</sub> emissions***

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

Discussant: Quan YUAN, Univ. North Carolina, Chapel Hill, USA

*Coffee Break: 10:00–10:30*

10:30–11:15

***Localized environmental Kuznets curves: A spatial panel analysis among US Counties***

Matt GNAGEY, Weber State Univ., Ogden, Utah, USA, and Steven DABB, Utah State Univ., Logan, USA

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

11:15–12:00

***Impacts of air pollution on urban housing prices in China***

Yifu OU and Kyung-Min NAM, Univ. Hong Kong, China

Discussant: Folke SNICKARS, KTH Royal Inst. Technology, Sweden

*Tuesday, 12:15 PM–2:15 PM*

***Annual Banquet Luncheon***

***Napa Valley Ballroom***

*(For all registered and paid participants; tickets required)*

***Chair:***

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

***Announcements:***

Jaewon LIM, Univ. Nevada, Las Vegas, USA

***The 23rd Springer-Verlag Prize:***

Martin ANDERSSON, Blekinge Inst. Technology, Sweden,

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

Janet KOHLHASE, Univ. Houston, Texas, USA

***The 33rd Charles M. Tiebout Prize:***

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

***Presidential Address:***

***Agglomeration Economies and Evolving Urban Form***

Genevieve GIULIANO, 60<sup>th</sup> WRSA President (2019-2020)

***Discussant:***

Peter GORDON

Univ. Southern California, Los Angeles, USA

and 53<sup>rd</sup> WRSA President (2012-2013)

*Tuesday, 2:30 PM–6:00 PM*

***Paper Session 4A ~ Syrah***

***Input-Output Analysis***

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

2:30–3:15

***The socioeconomics of mining operations in Kiruna Sweden - an impact analysis of a close down***

Folke SNICKARS, KTH Royal Inst. Technology, Sweden

Discussant: Euijune KIM, Seoul National Univ., Korea

3:15–4:00

***Selling Utah: How much the "Mighty 5" helps boost tourism and Utah economy?***

Tatiana DRUGOVA, Man-Keun KIM, and Paul M. JAKUS, Utah State Univ., Logan, USA

Discussant: Nyakundi MICHIEKA, California State Univ., Bakersfield, USA

*Coffee Break: 4:00–4:30*

4:30–5:15

***Modeling the local input-output network using county-level production and consumption estimates, and national input-output table***

Yicheol HAN and Stephan GOETZ, Pennsylvania State Univ., University Park, USA

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

5:15–6:00

***The spatial structure of cluster interdependencies in China Greater Bay area***

Meng YU, Yue WANG, and Xingjian LIU, Univ. Hong Kong, China

Discussant: Rafael GARDUNO-RIVERA, CIDE & Universidad Panamericana, Mexico

*Tuesday, 2:30 PM–6:00 PM*

***Paper Session 4B ~ Merlot***

***Remote Regions (I): Economics, Politics and Resource Development***

Chair: Chris SOUTHCOTT, Lakehead Univ., Orillia, Ontario, Canada

2:30–3:15

***The developing northern Australia agenda: A "down south" fix for the problems 'up north'?***

Andrew TAYLOR, James THURMER, Charles Darwin Univ., Australia, Anita MAERTENS, Australia, Northern Territory Government,

David KARACSONYI, Charles Darwin Univ., Australia

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

3:15–4:00

***The development effect of the Faro mine: Revenues, leakages, and structural change***

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

Discussant: Rasmus Ole RASMUSSEN, Nordic Centre for Spatial Development (NORDREGIO), Sweden

*Coffee Break: 4:00–4:30*

4:30–5:15

***Broadband for remote regions: Lessons from Alaska and the Canadian North***

Heather HUDSON, Univ. Alaska, Anchorage, USA

Discussant: Agnès FESTRÉ, Univ. Nice, France

5:15–6:00

***Contractual arrangements in remote regions: The case of coal mining***

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

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

*Tuesday, 2:30 PM–6:00 PM*

***Paper Session 4C ~ Cabernet***

***Transportation & Urban Forms***

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

2:30–3:15

***Agglomeration near and far: San Francisco and Los Angeles metropolitan areas***

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

Discussant: Yeol Choi, Pusan National Univ., Korea

3:15–4:00

***Impacts of severe weather events on high-speed rail and aviation delays***

Zhenhua CHEN and Yuxuan WANG, Ohio State Univ., Columbus, USA

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

*Coffee Break: 4:00–4:30*

4:30–5:15

***Polycentric urban form and non-work travel in Singapore: A focus on seniors***

Yuting HOU, Singapore Univ. Technology and Design, Singapore  
Discussant: Zhenhua CHEN, Ohio State Univ., Columbus, USA

5:15–6:00

***Understanding the Weber location paradigm***

Rick CHURCH, Univ. California, Santa Barbara, USA  
Discussant: Neil REID, Univ. of Toledo, Ohio, USA

*Tuesday, 2:30 PM–6:00 PM*

***Paper Session 4D ~ Zinfandel  
Regional Economic Development***

Chair: Peter ROGERSON, Univ. Buffalo, New York, USA

2:30–3:15

***Neighborhood characteristics and video gambling terminal placement and spending in Illinois***

Ethan GRUMSTRUP and Mark NICHOLS, Univ. Nevada, Reno, USA  
Discussant: Osamu SUGIMOTO, Josai Univ., Japan

3:15–4:00

***Ranch and county level impacts of alternative public land grazing policies in Elko County, Nevada***

Thomas R HARRIS and Ethan GRUMSTRUP, Univ. Nevada, Reno, USA  
Discussant: So Young SOHN, Yonsei Univ., USA

*Coffee Break: 4:00–4:30*

4:30–5:15

***Corporate social responsibility and poverty alleviation: A case study of Wanda Danzhai village***

Eric J. HEIKKILA, Manita RAO, and Jingwen ZHANG, Univ. Southern California, Los Angeles, USA  
Discussant: Thomas R HARRIS, Univ. Nevada, Reno, USA

5:15–6:00

***Land value capture as a funding source for public transport: A case study of the Bangkok metropolitan region***

Nij TONTISIRIN, Thammasat Univ., Thailand and Sutee ANANTSUKSOMSRI, Chulalongkorn Univ., Thailand  
Discussant: Thom MALONE, Georgia Inst. Technology, Atlanta, USA

*Tuesday, 2:30 PM–6:00 PM*

***Paper Session 4E ~ Atlas Peak  
Migration & Human Capital***

Chair: Mark BROWN, Statistics Canada, Ottawa, Canada

2:30–3:15

***Technical migration, technology-induced demand of education, and spatial skill inequality: Evidence from U.S. urban patent counts***

Oudom HEAN, Nattanicha CHAIRASSAMEE, and Mark PARTRIDGE, Ohio State Univ., Columbus, USA  
Discussant: Björn HÅRSMAN, Royal Inst. Technology, Sweden

3:15–4:00

***Where do immigrants locate in France? The untold story...***

Alexandra SCHAFFAR, Michel DIMOU, and Samuel ETTOUATI, Univ. Toulon, France  
Discussant: Soomi LEE, Univ. La Verne, California, USA

*Coffee Break: 4:00–4:30*

4:30–5:15

***Innovative new firms and human capital spillovers - a microgeographic analysis***

Johan P. LARSSON and Lucia NALDI, Jönköping International Business School, Sweden, Hans WESTLUND, KTH Royal Inst. Technology, Sweden, and Charlie KARLSSON, Jönköping International Business School, Sweden  
Discussant: Mina KIM, Bureau of Labor Statistics, Washington D.C., USA

5:15–6:00

***What explains the geography of start-up rates? -- New evidence from Sweden?***

Martin ANDERSSON, Blekinge Inst. Technology, Sweden, Niklas LAVESSON, Lund Univ., Sweden, and Mark PARTRIDGE, Ohio State Univ., Columbus, USA  
Discussant: Min XIONG, Florida International Univ., Miami, USA

*Tuesday, 2:30 PM–6:00 PM*  
**Paper Session 4F ~ Castle Peak**  
**Environmental Issues (II)**

Chair: John CARRUTHERS, George Washington Univ., Washington DC, USA

2:30–3:15

***Environmental justice in warehousing location across cities: Institutional perspectives***

Quan YUAN, Univ. North Carolina, Chapel Hill, USA

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

3:15–4:00

***Special analysis of social capital and community resilience for earthquake waste management***

Kiyomi KAWAMOTO, Toyo Univ., Japan and Eric YAMASHITA, Univ. Hawaii, Manoa, USA

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

*Coffee Break: 4:00–4:30*

4:30–5:15

***Causal relationship of the particulate matter policy by system thinking of specialists opinion: Case study of Korea***

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

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

5:15–6:00

***Understanding the problems of anaerobic digestion deployment in different regions: consultation, confrontation and forms of proximity***

Sebastien BOURDIN, Ecole de Management de Normandie, France

Discussant: Kyung-Min NAM, Univ. Hong Kong, China

*Tuesday, 6:15–7:45 PM*  
**President's Reception**  
**Napa Valley Ballroom**

## **Wednesday, February 13**

8:00 AM–12:15 PM, **Registration** (Grand Ballroom Foyer)

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

- 5A** Entrepreneurship & Economic Development (Syrah)
- 5B** Remote Regions (II): Governance, Culture, and Community Development (Merlot)
- 5C** Disaster, Infrastructure & Housing (Cabernet)

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

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

1:00–5:45 PM, **Registration Continues** (Grand Ballroom Foyer)

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

- 6A** Location and Spatial Analysis (Syrah)
- 6B** Remote Regions (III): Economic Development and Regional Growth (Merlot)
- 6C** Agriculture & Sustainability (Cabernet)

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

(5:45 PM, *End of Conference*)

*Wednesday, 8:30 AM–12:00 PM*

**Paper Session 5A ~ Syrah**

**Entrepreneurship & Economic Development**

Chair: Martin ANDERSSON, Blekinge Inst. Technology, Sweden

8:30–9:15

**Mass entrepreneurship and innovation in China: An analysis of breadth and depth of China's indigenous high-tech small businesses**

Min XIONG and Shaoming CHENG, Florida International Univ., Miami, USA

Discussant: Karl GEISLER, Idaho State Univ., Pocatello, USA

9:15–10:00

**The income return to entrepreneurship - theoretical models and outcomes for Swedish regions**

Björn HÅRSMAN, Royal Inst. Technology, Sweden

Discussant: Michael FARRELL, Univ. Quebec, Québec City, Canada

*Coffee Break: 10:00–10:30*

10:30–11:15

**Social entrepreneurship and regional economic development: Focusing on government-driven social enterprises in South Korea**

Soogwan DOH, Daegu Catholic Univ., Korea, Duckhee JANG, Korea Inst. Ocean Science & Technology, Korea, and Hans WESTLUND, KTH Royal Inst. Technology, Sweden

Discussant: Martin ANDERSSON, Blekinge Inst. Technology, Sweden

11:15–12:00

**Policy entrepreneurship and entrepreneurial orientation in vulnerable Swedish municipalities**

Johan P. LARSSON and Lucia NALDI, Jönköping International Business School, Sweden, and Hans WESTLUND, KTH Royal Inst. Technology, Sweden

Discussant: Rui YAN, Indiana Univ., Bloomington, USA

*Wednesday, 8:30 AM–12:00 PM*

**Paper Session 5B ~ Merlot**

**Remote Regions (II): Governance, Culture, and Community Development**

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

8:30–9:15

**Adaptive capacity and resilient social-ecological systems: Theory and evidence from Alaska north slope communities**

Matthew BERMAN, Univ. Alaska, Anchorage, USA

Discussant: Andrew TAYLOR, Charles Darwin Univ., Australia

9:15–10:00

**Gender perspectives on path dependency in contemporary development in Greenland**

Rasmus Ole RASMUSSEN, Nordic Centre for Spatial Development (NORDREGIO), Sweden

Discussant: Stein ØSTBYE, UiT The Arctic Univ. Norway, Norway

*Coffee Break: 10:00–10:30*



10:30–11:15

**Pyramid schemers: The Alaskan adventures of two great American fraudsters, Charles V. Bob and W.B. Foshay**

Terrence COLE, Univ. Alaska, Fairbanks, USA

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

Wednesday, 8:30 AM–12:00 PM

**Paper Session 5C ~ Cabernet**

**Disaster, Infrastructure & Housing**

Chair: Kyung-Min NAM, Univ. Hong Kong, China

8:30–9:15

**Megaregion truck flow estimation model**

Qisheng PAN, Bumseok CHUN, and Zhonghua JIN, Texas Southern Univ., Houston, USA

Discussant: Eric YAMASHITA, Univ. Hawaii, Manoa, USA

9:15–10:00

**Characterization of frequent pedestrian-vehicle collision areas and surrounding walking environment for senior citizens - The case study of Seoul, South Korea**

Hyunsoo KIM and Yeol CHOI, Pusan National Univ., Korea

Discussant: John CARRUTHERS, George Washington Univ., Washington DC, USA

Coffee Break: 10:00–10:30

10:30–11:15

**Economic consequences of the HayWired earthquake scenario**

Ian SUE WING, Boston Univ., Massachusetts, USA, Dan WEI and Adam ROSE, Univ. Southern California, Los Angeles, USA

Discussant: Kiyomi KAWAMOTO, Toyo Univ., Japan

11:15–12:00

**A comparison of statistical and machine learning algorithms for predicting rents in the San Francisco Bay Area**

Paul Waddell and Arezoo BESHARATI-ZADEH, Univ. California, Berkeley, USA

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

Wednesday, 1:30 PM–5:00 PM

**Paper Session 6A ~ Syrah**

**Location and Spatial Analysis**

Chair: Johan KLAESSON, Jönköping International Business School, Sweden

1:30–2:15

**Phillip Sargant Florence: Pioneer Regional Scientist?**

Peter BATEY, Univ. Liverpool, United Kingdom

Discussant: Hans WESTLUND, KTH Royal Inst. Technology, Sweden

2:15–3:00

**Are Women Earning as much as Men?: Exploring Spatial and Temporal Trend of Gender Wage Gap in Architecture, Engineering, and Construction (AEC) Industry in the United States**

Saba NIKKHAH MANESH, Binit Kumar SHRESTHA, Jaewon LIM, Jinouk CHOI, and Pramen SHRESTHA, Univ. Nevada, Las Vegas, USA

Discussant: Sameeksha DESAI, Kauffman Foundation, Kansas City, Missouri, USA

Coffee Break: 3:00–3:30

3:30–4:15

**Dynamics of peri-urban, the non-core areas: Along the spatial transition and multi-nuclei developments of Busan metropolitan city**

Dong Hak LEE, Jinhyeok JANG, and Yeol CHOI, Pusan National Univ., Korea

Discussant: Johan KLAESSON, Jönköping International Business School, Sweden

4:15–5:00

**Job loss and earnings -- heterogeneity in effects by spatial access to jobs**

Olle WESTERLUND, Kent ELIASSON, and Ingeborg WAERNBAUM, Umeå Univ. Sweden

Discussant: Sharmistha BAGCHI-SEN, Univ. Buffalo, New York, USA

*Wednesday, 1:30 PM–5:00 PM*

***Paper Session 6B ~ Merlot***

***Remote Regions III: The Changing Economic Geography of the North***

Chair: Matthew BERMAN, Univ. Alaska, Anchorage, USA

*1:30–2:15*

***A note on migration dynamics in new economic geography***

Stein ØSTBYE, UiT The Arctic Univ. Norway, Norway

Discussant: Chris SOUTHCOTT, Lakehead Univ., Orillia, Ontario, Canada

*2:15–3:00*

***The Strategic competitiveness of Alaska native regional corporations: The scramble for federal contract dollars***

Greg PROTASEL, Univ. Alaska, Anchorage, USA

Discussant: James THURMER, Charles Darwin Univ., Australia

*Coffee Break: 3:00–3:30*

*3:30–4:15*

***Local employment spillovers in resource harvest: Evidence from Alaska's commercial fisheries***

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

Discussant: Jan Yngve SAND, UiT The Arctic Univ. Norway, Norway

*Wednesday, 1:30 PM–5:00 PM*

***Paper Session 6C ~ Cabernet***

***Agriculture & Sustainability***

Chair: Sebastien BOURDIN, Ecole de Management de Normandie, France

*1:30–2:15*

***Sustainable practices diffusion in socio-ecological systems: The Gorutuba Irrigation Perimeter (Brazil) analysis***

Rafael CAMPOS, Univ. Illinois, Urbana-Champaign, USA, Denis CUNHA, Federal Univ. Viçosa, Brazil, Newton BUENO, FUCAPE Business School, Brazil

Discussant: Zheng TIAN, Pennsylvania State Univ., University Park, USA

*2:15–3:00*

***Drought, intra-national trade and agricultural profit: Evidence from the U.S. agriculture***

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

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

*Coffee Break: 2:30–3:00*

*3:00–3:45*

***The sensitivity of rice yield to weather variation in Colombia: a panel data approach over 1987-2016***

Karelys GUZMAN, Univ. Illinois, Urbana-Champaign, USA

Discussant: Sebastien BOURDIN, Ecole de Management de Normandie, France

*4:15–5:00*

***Estimating economic impacts of irrigation water supply policy using synthetic control regions: A comparative case study***

Cameron SPEIR, NOAA Fisheries, Santa Cruz, California, USA

Discussant: Rafael CAMPOS, Univ. Illinois, Urbana-Champaign, USA

***End of Conference...***

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