



Western Regional Science Association Program

43rd Annual Meeting of the Western Regional Science Association Wailea Marriott ~ Maui, Hawaii ~ February 25–28, 2004

Aloha! Welcome to Maui, to the Wailea Marriott, An Outrigger Resort, and to WRSA's 43rd Annual Meeting.

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

The Program Participant Locator, found on Pages 19–22, should help you find when and where you and others are scheduled.

The floor maps on Page 23 show the location of the sessions. The box on Page 4 contains information about the time format of the sessions.

This year's Annual Meeting includes a number of special features. The conference will formally open on Wednesday afternoon, at 4:00 PM, in the Maile Ballroom. Clifford J. Nae'ole will give a traditional Opening Oli (Native Hawaiian chant). He will then present a short lecture on the cultural landscape of Maui. Juanita Liu's Presidential Address will follow on the theme: "The Value of Culture in Regions."

The Welcoming Reception will be held immediately after the Opening Session on the (rooftop) Pacific Terrace. All full-conference registrants and those for whom a Banquet and Receptions ticket packet have been purchased may use their BLUE tickets for drinks from the bar. Drinks will, in addition, be available on a cash-bar basis. Everybody – all accompanying persons – are very much welcome to attend the Opening Session and Welcoming Reception!

The Annual Luncheon Banquet on Friday at 12:15 PM in the Maile Ballroom will feature the presentation ceremonies for the Springer-Verlag and Tiebout Prizes. Please bring your YELLOW ticket to be seated. Accompanying persons attending the Luncheon must have purchased tickets to attend this event.

On Friday evening beginning at 5:30 PM, Juanita Liu will host the President's Reception, featuring Hawaiian music and some appetizers, compliments of the School of Tourism Management, University of

Hawaii. Again, everyone is welcome at this function – use the GREEN tickets for first drinks.

File copies of the papers being presented are available for perusal at our registration table. Extra blank transparencies and markers are also available.

Best wishes for a productive and stimulating conference, a restorative stay at the Wailea Marriott, and a memorable visit to the Island of Maui.



Tuesday, February 24

12:00 – 5:30 PM

Pre-Conference Luncheon and Seminar
(Lokelani Ballroom)

5:00 – 8:00 PM

Wailea Marriott Luau (Luau Grounds)



Tuesday, 12:00 – 5:30 PM

Pre-Conference Seminar ~ Lokelani Ballroom

University Research Parks:

Current Landscape and Emerging Trends

(Requires Separate Preregistration and Additional Fee)

Organizers: Lay J. GIBSON and Bruce A. WRIGHT,
Univ. Arizona, Tucson, USA

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

Research Parks as an Element of Regional Real Estate

Charles DILKS, Dilks Consulting, Philadelphia, PA, USA

Role of Research Parks in Technology Innovation and Commercialization

Vernon GEORGE, Hammer Siler George Associates, Silver Springs, MD, USA

Research Parks as an Expression of University Economic Development

Bruce A. WRIGHT, Assoc. Vice President, Univ. Arizona, Tucson, USA

EDA University Research Park Effectiveness Study

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



Tuesday, 5:00 – 8:00 PM

Wailea Marriott Luau ~ Luau Grounds

Early arriving WRSA Participants are invited to take advantage of a special discounted price for one of the best luaus in the islands. Price includes open bar, full meal, and entertainment.

Advance ticket purchase is required at the hotel's Luau Reservations Desk. To receive the WRSA discount, reservations must be made prior to 3:00 PM on Tuesday, February 24. You must mention that you are a WRSA participant, and you must charge your tickets to your hotel room at the resort. Regular price is \$72.86 – WRSA participants will receive a 15% discount (\$61.93).



Wednesday, February 25

10:30 AM – 6:00 PM

Registration (Kukui Terrace)

Morning (9:32 first tee times)

WRSA Turnbull Cup Golf Tournament

4:00 – 7:00 PM

Opening Session and Welcoming Reception
(Maile Room and Pacific Terrace)



Wednesday, 4:00 – 7:00 PM

Opening Session ~ Maile Ballroom

*(For All Conference Participants and
Accompanying Persons; Everyone Welcome!)*

Opening Oli

Clifford J. NAE'OLE, Cultural Advisor,
The Ritz-Carleton, Kapalua, HI, USA

Chair: Koichi MERA, WRSA President, 2003–2004

The Cultural Landscape of Maui

Clifford J. NAE'OLE, Cultural Advisor,
The Ritz-Carleton, Kapalua, HI, USA

Presidential Address:

The Value of Culture in Regions

Juanita C. LIU, Univ. Hawai'i, Manoa
WRSA President, 2004–2005

Welcoming Reception ~ Pacific Terrace
(Rooftop Level)



Thursday, February 26

7:45 AM – 12:00 PM

Registration (Kukui Terrace)

8:30 AM – 12:00 PM

W-1133 Presentations, I (Plumeria)

8:30 AM – 12:00 PM

Six Concurrent Paper Sessions:

1A, 1B, 1C, 1D, 1E, 1F

10:00 – 10:30 AM

Coffee Break (Pavilion Lanai)

Lunch

(On your own this day)

1:00 – 7:15 PM

Registration continues (Kukui Terrace)

1:30 – 3:00 PM

W-1133 Presentations, II (Plumeria)

1:30 – 5:00 PM

Five Concurrent Paper Sessions:

2A, 2B, 2C, 2D, 2E

1:30 – 3:00 PM

Panel Session 2F (Ilima)

3:00 – 3:30 PM

Refreshment Break (Pavilion Lanai)

3:30 – 5:45 PM

Paper Session 2G (Ilima)

3:30 – 5:00 PM

WRSA Board Meeting (By Invitation Only;
Maui Boardroom)

3:30 – 5:00 PM

W-1133 Business Meeting (Plumeria)

7:00 – 9:15 PM

Six Concurrent Paper Sessions:

3A, 3B, 3C, 3D, 3E, 3F

7:00 – 9:15 PM

Remote Regions Workshop Session 3G



Thursday, 8:30 AM – 12:00 PM

W-1133 Presentations, I ~ Plumeria

Organizer: Donald M. McLeod, Univ. Wyoming,
Laramie, USA



Thursday, 8:30 AM – 12:00 PM

**Paper Session 1A ~ Jade
Public Policy**

Chair: Donald R. DESKINS, Univ. Michigan,
Ann Arbor, USA

8:30–9:15

***Agency Transformation and State Public Utility
Commissions***

Douglas N. JONES, Ohio State Univ., Columbus, USA
Discussant: Eric THOR, Arizona State Univ., Tempe,
USA

9:15–10:00

The Choice of Distance Education: A Success Factor

Reza G. HAMZAEI, Missouri Western State College, St.
Joseph, and Walden Univ., USA
Discussant: Roel RUTTEN, Tilburg Univ., The
Netherlands

10:00–10:30, Coffee Break

10:30–11:15

***Cost of Improving Efficiency and Performance in Public
Education: An Empirical Analysis***

Kalyan CHAKRABORTY, Emporia State Univ., KS, USA
Discussant: Frans BOEKEMA, Tilburg Univ., The
Netherlands

11:15–12:00

***Where Do Assaults Occur in Correctional Institutions?
Measurement Issues***

George F. RENGERT, Mark MATTSON, Andrew J.
BUCK, and Simon HAKIM, Temple Univ., Philadelphia,
USA
Discussant: R. Pete PARCELLS, Whitman College,
Walla Walla, WA, USA



Thursday, 8:30 AM – 12:00 PM

**Paper Session 1B ~ Maile
Transportation Modeling**

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

8:30–9:15

***An Empirical Investigation on the Dynamic Processes of
Activity Scheduling and Trip Chaining***

Ming LEE, TJKM Transportation Consultants, Santa Rosa,
CA, and Michael G. McNALLY, Univ. California, Irvine,
USA

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

9:15–10:00

***An Equilibrium Model of Air Network Flows: Case of the
National Airspace System of the United States***

Chieh-Yu HSIAO and Mark HANSEN, Univ. California,
Berkeley, USA
Discussant: Andrew J. BUCK, Temple Univ., Philadelphia,
USA

10:00–10:30, Coffee Break

10:30–11:15

***Measuring Marginal Congestion Costs of Urban
Transportation: Do the Networks Matter?***

Elena SAFIROVA and Kenneth GILLINGHAM, Resources
for the Future, Washington, DC, USA
Discussant: Lars LUNDQVIST, Royal Institute of
Technology, Stockholm, Sweden

11:15–12:00

An Agent-Based Travel Demand Model

Lei ZHANG, Univ. Minnesota, Minneapolis, USA
Discussant: Harvey J. MILLER, Univ. Utah, Salt Lake
City, USA



Thursday, 8:30 AM – 12:00 PM

Paper Session 1C ~ Haku

Remote Regions, I: Institutions and Land Use Decisions

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

8:30–9:15

***Communities Beyond Places: Issues of Inclusion for “Off-
Reserve” Members of Bands in British Columbia Since the
Corbiere Case***

Margaret ANDERSON, Univ. Northern British Columbia,
Prince Rupert, Canada
Discussant: Peter T. WILSON, Univ. Guam, USA

9:15–10:00

***Common Property, Resource Management, and Alaska
Native Village Corporations***

E. Lance HOWE, Univ. Alaska, Anchorage, USA
Discussant: Jon MATSUOKA, Univ. Hawai'i,
Honolulu, USA

10:00–10:30, Coffee Break

10:30–11:15

***The Evolving Face of Partnerships Between First Nations
and the Forestry Sector: A Literature Search and a
National Survey***

Clifford G. HICKEY, Univ. Alberta, Edmonton, Canada
Discussant: Lee HUSKEY, Univ. Alaska, Anchorage,
USA

11:15–12:00

***Assessing the Effects of Fire Management Policy On
Native Land Use in Interior Alaska***

David C. NATCHER, Univ. Alaska, Anchorage, USA
Discussant: Marc G. STEVENSON, Univ. Alberta,
Edmonton, Canada

Thursday morning program continues on Page 4...

Session Format

Per WRSA custom, each paper is given 45 full minutes of Program time, inclusive of discussion. Authors should plan on presentations of approximately 25–30 minutes. Discussants should prepare about 5–10 minutes of remarks, allowing for at least 10 minutes of open discussion time for comments from the floor.



Thursday, 8:30 AM – 12:00 PM

Paper Session 1D ~ Pikake I

New Perspectives on Spatial Analysis

Chair: Bahram ADRANGI, Univ. Portland, OR, USA

8:30–9:15

Testing for Multivariate Heteroscedasticity

H.E.T. HOLGERSSON and Ghazi SHUKUR, Jönköping International Business School, Sweden

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

9:15–10:00

σ -Convergence in the Presence of Spatial Effects

Sergio J. REY and Boris DEV, San Diego State Univ., USA

Discussant: Bahram ADRANGI, Univ. Portland, USA

10:00–10:30, Coffee Break

10:30–11:15

Selecting Spatial Regimes by Threshold Analysis

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

Discussant: Boris DEV, San Diego State Univ., USA

11:15–12:00

A Nonparametric Model of Spatial Correlation

Nicholas NAGLE, Univ. California, Santa Barbara, USA

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



Thursday, 8:30 AM – 12:00 PM

Paper Session 1E ~ Mauna Loa

Public Administration and Finance

Chair: Bruce A. WRIGHT, Univ. Arizona, Tucson, USA

8:30–9:15

Price Elasticities of Urban Form: Estimates from Public Service Expenditures in United States Metropolitan Areas

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

Discussant: John M. QUIGLEY, Univ. California, Berkeley, USA

9:15–10:00

Understanding Canadian Provincial Policies in Recent Adaptations to City-region Governing

James LIGHTBODY, Univ. Alberta, Edmonton, Canada

Discussant: Chang-Hee Christine BAE, Univ.

Washington, Seattle, USA

10:00–10:30, Coffee Break

10:30–11:15

Using Census Data to Forecast New Sales Taxes in Small- and Medium-Sized Cities

John D. WONG, Wichita State Univ., KS, USA

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

11:15–12:00

Fiscal Decentralization in Sindh: Prospects and Reality

Muhammad SABIR, Social Policy and Development Centre, and Qazi Masood AHMED, Institute of Business Administration, Karachi, Pakistan

Discussant: Tatsuyoshi MIYAKOSHI, Univ. Tsukuba, Japan



Thursday, 8:30 – 11:15 AM

Paper Session 1F ~ Ilima

Regional Development: Case Studies from Around the World

Chair: Gunter SCHRAMM, International Finance Corporation, Arlington, VA, USA

8:30–9:15

Regional Competitiveness Case: South Karelia, Finland

Ulla KOTONEN, Jussi WAAJAKOSKI, and Heli JÄÄSKELÄINEN, Lappeenranta Univ. of Technology, Finland

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

9:15–10:00

The Pattern of Spatial Development Spillover: Korean Experiences, 1990–2000

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

Discussant: Kenneth E. COREY, Michigan State Univ., East Lansing, USA

10:00–10:30, Coffee Break

10:30–11:15

Regional Competitiveness Indicators

Peter FRIEDRICH and Janusz A. Kosiński, UNIBW, Munich, Germany

Discussant: Rio Nuno BALEIRAS, Universidade Nova de Lisbon, Portugal

**Thanks to the
2004 Program Committee!**

Chair: David A. Plane

Co-Chairs:

Christopher Henrie

Lay James Gibson

Brigitte Waldorf

Juanita Liu

Gordon F. Mulligan

Robert Read

Lee Huskey

Timothy Hogan

Terry Clower

Adrian X. Esparza

John Carruthers

Daniel Osgood

Katharine Jacobs

Simon Batterbury

Keiron Bailey

Bruce Wright

Robert Formaini

Pillsung Byun

Meagan Cahill



Thursday, 1:30 – 3:00 PM

W-1133 Presentations, II ~ Plumeria

Organizer: Donald M. McLEOD, Univ. Wyoming,
Laramie, USA



Thursday, 1:30 – 5:00 PM

**Paper Session 2A ~ Jade
Labor Markets, I**

Chair: Henk FOLMER, Tilburg Univ., The Netherlands

1:30–2:15

Human and Social Capital within Brazilian Families: A Regional Pilot Comparison

Carlos R. ARIEIRA and Kingsley E. HAYNES, George Mason Univ., Fairfax, VA, USA

Discussant: Mary P. VENCILL, Berkeley Policy Associates, Oakland, CA, USA

2:15–3:00

Changing Working Efforts in Welfare States: A Panel Data Study of Working Hours in Europe and North America

Sara JOHANSSON and Lars PETTERSSON, Jönköping International Business School, Sweden

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

3:00–3:30, Refreshment Break

3:30–4:15

Welfare Reform and Immigrant Participation in the Supplemental Security Income Program

Paul S. DAVIES, Social Security Administration, Washington, D.C., and Michael J. GREENWOOD, Univ. Colorado, Boulder, USA

Discussant: Don MAR, San Francisco State Univ., USA

4:15–5:00

Drug Dealer Diversion in San Francisco: Street to Work, A Job Training Program for First-Time Offenders--What Have We Learned So Far?

C. Daniel VENCILL, San Francisco State Univ., and Mary P. VENCILL, Berkeley Policy Associates, Oakland, CA, USA

Discussant: Roberto PEDACE, Univ. Redlands, CA, USA



Thursday, 1:30 – 5:00 PM

**Paper Session 2B ~ Maile
Rural Regional Topics**

Chair: Audie BLEVINS, Univ. Wyoming, Laramie, USA

1:30–2:15

Rural Regional Issues: Rural Mediation Centers for Alternative Dispute Resolution and Peace Making Units in Indonesia and Arizona

Eric THOR and Rodica EVTUHOVICI, Arizona State Univ. East, Mesa, USA, and Maman Achmad RIFAI, Indonesia

Discussant: Katherine JENSEN, Univ. Wyoming, Laramie, USA

2:15–3:00

The Potential Economic Impact on the Economy of Southeastern Wyoming from Designation of Critical Habitat for the Preble's Meadow Jumping Mouse

Thomas FOULKE, Roger H. COUPAL, and David T. TAYLOR, Univ. Wyoming, Laramie, USA

Discussant: Gerald A. DOEKSEN, Oklahoma State Univ., Stillwater, USA

3:00–3:30, Refreshment Break

3:30–4:15

Amenities or Industries: What Really Drives Economic Growth in Rural Regions with Forests and Related Resources?

Paul E. POLZIN, Univ. Montana, Missoula, USA

Discussant: Ulla KOTONEN, Lappeenranta Univ. of Technology, Finland

4:15–5:00

Technological Innovation in Small and Rural Context: The Case of Two Swiss Regions

Fabio BOSSI, Università della Svizzera italiana, Lugano, Switzerland

Discussant: Scott BAUM, Univ. Queensland, St. Lucia, Australia



Thursday, 1:30 – 5:00 PM

Paper Session 2C ~ Haku

Transportation and Movement Systems

Chair: Reza G. HAMZAEI, Missouri Western State College, St. Joseph, and Walden Univ., USA

1:30–2:15

Infrastructures at Stakes in the Transition Process: The Trans European Infrastructures Network (TIN) in South Eastern Europe

Hugues SACHTER, Univ. d'Artoies, Béthune, France

Discussant: M. John HODGSON, Univ. Alberta, Edmonton, Canada

2:15–3:00

A Topological Classification of Movement Systems

Waldo TOBLER, Univ. California, Santa Barbara, USA

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

3:00–3:30, Refreshment Break

3:30–4:15

A Measurement Theory for Time Geography

Harvey J. MILLER, Univ. Utah, Salt Lake City, USA

Discussant: Michael G. McNALLY, Univ. California, Irvine, USA

4:15–5:00

Comparing the Influence of Land Use on Nonwork Trip Generation and Vehicle Distance Traveled: An Analysis Using Travel Diary Data

Marlon G. BOARNET, K.S. NESAMANI, and C. Scott SMITH, Univ. California, Irvine, USA

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

Thursday Afternoon Program Continues on Page 6...



Thursday, 1:30 – 3:00 PM
Paper Session 2D ~ Pikake I
Housing Markets and Real Estate Analysis, I
 Chair: L. Michael FARRELL, Univ. du Québec
 à Trois-Rivières, Canada

1:30–2:15

Tax Dividend Evaluation of Major Urban Renewal Projects

Rui Nuno BALEIRAS, Rui Sousa MONTEIRO, and Ana Balcão REIS, Universidade Nova de Lisboa, Portugal
 Discussant: Steven RAPHAEL, Univ. California, Berkeley, USA

2:15–3:00

Price Cutting Behavior in Residential Markets

William E. HERRIN and John R. KNIGHT, Univ. of the Pacific, Stockton, CA, and C.F. SIRMANS, Univ. Connecticut, Storrs, USA
 Discussant: Scott HOUSER, California State Univ., Fresno, USA



Thursday, 1:30 – 5:00 PM
Paper Session 2E ~ Mauna Loa
Remote Regions, II:

Rethinking the Cross-Cultural Context

Chair: Sharman HALEY, Univ. Alaska, Anchorage, USA

1:30–2:15

Process Issues in Native Title Negotiations in South Australia

Parry AGIUS, Richard HOWITT, and Rhian WILLIAMS, Macquarie Univ., Sydney, Jocelyn DAVIES, Univ. Adelaide, and Sandy JARVIS, Aboriginal Legal Rights Movement, Australia

Discussant: Sharman HALEY, Univ. Alaska, Anchorage, USA

2:15–3:00

Rethinking the Building Blocks

Richard HOWITT and Sandie SUCHET-PEARSON, Macquarie Univ., Sydney, Australia

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

3:00–3:30, Refreshment Break

3:30–4:15

Helping Whitefellers to See: Community Engagement and Cultural Practices in Emergency Situations in Remote Regions

Kim DOOHAN, Macquarie Univ., Sydney, Australia
 Discussant: Mary-Ellen KELM, Univ. Northern British Columbia, Canada

4:15–5:00

GIS Overlay Mapping of Native Hawaiian Cultural and Natural Resources

Jon MATSUOKA, Davianna MCGREGOR, and Luciano MINERBI, Univ. Hawai'i, Honolulu, USA

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



Thursday, 1:30 – 3:00 PM
Panel Session 2F ~ Ilima
The Changing Nature of the Firm
 Chair: Robert FORMAINI, Federal Reserve Bank of Dallas

Panelists:

Andrew BEER, Flinders Univ., Adelaide, Australia
 Terry CLOWER, Univ. North Texas, Denton, USA
 Robert FORMAINI, Federal Reserve Bank of Dallas, USA
 Thomas SIEMS, Federal Reserve Bank of Dallas, USA



Thursday, 3:30 – 5:45 PM
Paper Session 2G ~ Ilima
Local Economic Development
 Chair: Robert FORMAINI, Federal Reserve Bank of Dallas
3:30–4:15

Micro-Finance in Ecuador

Sergio A. CASTELLO, Univ. Mobile, AL, and Paul C. HUSZAR, Colorado State Univ., Ft. Collins, USA

Discussant: John D. WONG, Wichita State Univ., KS, USA

4:15–5:00

Australian Small Business Financial Performance: A Regional and Temporal Analysis

Tony SORENSEN, Univ. New England, Armidale, Australia

Discussant: Robert READ, Univ. Lancaster, United Kingdom

5:00–5:45

Developing Integrated Object-oriented Conception of Geomarketing as a Tool for Promotion of Regional Sustainable Development: The Case Study of Ukraine

Volodymyr M. ANDERSON, Univ. Idaho, Moscow, USA

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



Thursday, 3:30 – 5:00 PM
WRSA Board Meeting ~ Maui Boardroom
 (By Invitation Only)

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



Thursday, 3:30 – 5:00 PM
W-1133 Business Meeting ~ Plumeria
 Convenor: Donald M. McLEOD, Univ. Wyoming, Laramie, USA

**Thursday, 7:00 – 9:15 PM****Paper Session 3A ~ Jade****Environmental Management and Policy, I**Chair: Thomas GUNTON, Simon Fraser Univ.,
Vancouver, B.C., Canada

7:00–7:45

Climate Impacts on Urban Infrastructure: Regional Cost and Adaptation Strategies

Matthias RUTH, Univ. Maryland, College Park, and Paul H. KIRSHEN, Tufts Univ., Medford, MA, USA

Discussant: Henk FOLMER, Tilburg Univ., The Netherlands

7:45–8:30

Ignoring Environmental Science: Lake Acidification in the Sudbury, Ontario Region, from the 1960s to the 1980s

Don MUNTUN, Univ. Northern British Columbia, Prince George, Canada

Discussant: Woodruff MILLER, Brigham Young Univ., Provo, UT, USA

8:30–9:15

Bureaucrats on the Barrier Islands: Ethical Dilemmas

John W. SOMMER and Scott P. HIPPENSTEEL, Univ. North Carolina, Charlotte, USA

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

**Thursday, 7:00 – 9:15 PM****Paper Session 3B ~ Maile****Regional Model Building**

Chair: David W. HOLLAND, Washington State Univ., Pullman, USA

7:00–7:45

Non-Linear Input-Output Models: Practicability and Potential

Guy R. WEST, Univ. Queensland, St. Lucia, Australia, and Randall W. JACKSON, West Virginia Univ., Morgantown, USA

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

7:45–8:30

Calibrating a U.S. Multiregional SAM

Patrick CANNING, U.S. Economic Research Service, Washington, D.C., and Zhi WANG, George Mason Univ., Fairfax, VA, USA

Discussant: John R. ROY, ETUDES, Mallaacoota, Australia

8:30–9:15

Flow Identification in Regional Input-Output

John R. ROY, ETUDES, Mallaacoota, Australia

Discussant: Xiao-Ping ZHENG, Ritsumeikan Univ., Biwako-Kusatsu, Japan

**Thursday, 7:00 – 9:15 PM****Paper Session 3C ~ Haku****Developing Locally:****Economic Development Lessons from Four Countries**

Terry CLOWER, Univ. North Texas, Denton, USA

7:00–7:45

Local Economic Development in the US: Practices and Lessons

Terry CLOWER, Univ. North Texas, Denton, USA

Discussant: Robert STIMSON, Univ. Queensland, Brisbane, Australia

7:45–8:30

Local and Regional Economic Development Organisations in Australia

Alaric MAUDE and Andrew BEER, Flinders Univ., Adelaide, Australia

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

8:30–9:15

Local and Regional Economic Development***Organizations: Comparing Four Nations***

Graham HAUGHTON, Alaric MAUDE, Rachel NAYLOR, Terry ROBSON, and Andrew BEER, Flinders Univ., Adelaide, Australia

Discussant: Bud WEINSTEIN, Univ. North Texas, Denton, USA

**Thursday, 7:00 – 9:15 PM****Paper Session 3D ~ Pikake I****Evaluation of Economic Impacts**

Chair: Fabio BOSSI, Università della Svizzera italiana, Lugano, Switzerland

7:00–7:45

The Economic Contribution of the Non-native Hispanic Community to the Las Vegas Economy

Mary RIDDEL and R. Keith SCHWER, Univ. Nevada, Las Vegas, USA

Discussant: Paul C. HUSZAR, Colorado State Univ., Ft. Collins, USA

7:45–8:30

The Montreal Expos and the Market for Major League Sports Assets/Franchises

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

Discussant: Kent KOVACS, Univ. California, Davis, USA

8:30–9:15

The Importance of Adjusting for Trip Purpose in Regional Economic Analyses of Tourist Destinations

John LOOMIS, Colorado State Univ., Ft. Collins, and Lynne CAUGHLAN, U.S. Geological Survey, Ft. Collins, CO

Discussant: Manuel ANGELES, Universidad Autónoma de Baja California Sur, La Paz, Mexico

Thursday Evening Program Continues on Page 8...



Thursday, 7:00 – 9:15 PM

**Paper Session 3E ~ Mauna Loa
Environmental Externalities**

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

7:00–7:45

***An Efficient Disposal System of Industrial Waste and an
Optimal Taxation***

Hirofumi FUKUYAMA, Kyushu Univ., and Tohru NAITO,
Kyushu Kyoritsu Univ., Fukuoka, Japan

Discussant: Kalyan CHAKRABORTY, Emporia State
Univ., KS, USA

7:45–8:30

***Willingness to Pay Versus Willingness to Accept:
Estimates of the External Costs of Health and Safety Risks
from Radioactive Waste Transport***

Mary RIDDEL and R. Keith SCHWER, Univ. Nevada, Las
Vegas, USA

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

8:30–9:15

***R&D, Human Capital, and Environmental Externality in
the Endogenous Growth Model***

Daisuke IKAZAKI, Kumamoto Gakuen Univ., Japan

Discussant: Guang YANG, George Mason Univ.,
Fairfax, VA, USA



Thursday, 7:00 – 9:15 PM

Paper Session 3F ~ Ilima

Regional Science: Financial Aspects

Chair: Muhammad SABIR, Social Policy and
Development Centre, Karachi, Pakistan

7:00–7:45

Tax Competition, Spillovers, and Subsidies

Hikaru OGAWA, Nagoya Univ., Japan

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

7:45–8:30

Measuring the Cost of the Japanese Financial Recession

Tatsuyoshi MIYAKOSHI and Masakatsu OKUBO, Univ.
Tsukuba, Japan

Discussant: Thomas C. LOWINGER, Washington State
Univ., Pullman, USA

8:30–9:15

***A Welfare-Based Model on Speculative Attacks, Self-
Defense, and Regional Financial Arrangements for East
Asian Economies***

Sean LIU, Cornell Univ., Ithaca, NY, USA

Discussant: Michael K. PRICE, Univ. Maryland, College
Park, USA



Thursday, 7:00 – 9:15 PM

Workshop Session 3G ~ Plumeria

Remote Regions, III:

Processes for Cross-Cultural Engagement

Chair: Richard HOWITT, Macquarie Univ.,
Sydney, Australia

Theme: “Experiencing Process Issues in Cross-Cultural
Negotiations”

Panelists:

Rhian WILLIAMS, Macquarie Univ., Sydney, Australia

Parry AGIUS, Macquarie Univ., Sydney, Australia

Richard HOWITT, Macquarie Univ., Sydney, Australia

Jocelyn DAVIES, Univ. Adelaide, Australia

Sandy JARVIS, Aboriginal Legal Rights Movement,
Australia



Friday, February 27

8:00 AM and throughout the day

Registration continues (Kukui Terrace)

8:30 AM – 12:00 PM

Seven Concurrent Paper Sessions:

4A, 4B, 4C, 4D, 4E, 4F, 4G

10:00 – 10:30 AM

Coffee Break (Pavilion Lanai)

12:15 – 2:00 PM

Annual Banquet Luncheon (Lokelani

Ballroom; Tickets required)

2:15 – 5:15 PM

Six Concurrent Paper Sessions:

5A, 5B, 5C, 5D, 5E, 5F (*Note: No formal
refreshment break this afternoon; short session
breaks may be taken at the discretion of the
respective chairs*)

2:15 – 5:30 PM

W-1133 Presentations, III

5:30 – 7:00 PM

President’s Reception (Pacific Terrace;

For all participants and accompanying persons)



Mahalo for Their Generous Financial Support of the Conference!

The School of Travel Industry Management of the University of Hawaii,
and International Specialized Book Services



Friday, 8:30 AM – 12:00 PM

Paper Session 4A ~ Jade

W-1133/WRSA Joint Session: Measures of Urban/Rural Property Attributes with Associated Values

Chair: Donald M. McLEOD, Univ. Wyoming, Laramie, USA

8:30–9:15

Hedonic Housing Price Analysis with Superfund Sites: The Problem of Bundled Risk Correlates in Urban Industrial Zones

B. James DEATON and John P. HOEHN, Michigan State Univ., East Lansing, USA

Discussant: Klaus MOELTNER, Univ. Nevada, Reno, USA

9:15–10:00

Neighborhood Formation with Fixed Space Constraints: Misspecification of Amenity Estimates When Households Are Highly Heterogeneous

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

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

10:00–10:30, Coffee Break

10:30–11:15

Does Ownership Matter? Examining the Relationship Between Property Values and Privately and Publicly Owned Open Spaces, Streams and Wetlands

Noelwah NETUSIL, Reed College, Portland, OR, USA

Discussant: Donald M. McLEOD, Univ. Wyoming, Laramie, USA

11:15–12:00

The Opportunity for a Private Market for Farmland Preservation

Jeffrey H. DORFMAN, Bethany LAVIGNO, John C. BERGSTROM, and Barry J. BARNETT, Univ. Georgia, Athens, USA

Discussant: John LOOMIS, Colorado State Univ., Ft. Collins, USA



Our Meeting Venue:

The Wailea Marriott, An Outrigger Resort

3700 Wailea Alanui
Wailea, Maui, Hawaii 96753-8332 USA
Ph: 808-879-1922
Fax: 808-874-8331



Friday, 8:30 – 11:15 AM

Paper Session 4B ~ Maile

Transportation and Spatial Behavior

Chair: Harvey J. MILLER, Univ. Utah, Salt Lake City, USA

8:30–9:15

Fare-Free Public Transit at Universities: An Evaluation

Jeffrey BROWN, Daniel B. HESS, and Donald SHOUP, Univ. California, Los Angeles, USA

Discussant: Hugues SACHTER, Univ. d'Artoies, Béthune, France

9:15–10:00

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

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

Discussant: Elena SAFIROVA, Resources for the Future, Washington, DC, USA

10:00–10:30, Coffee Break

10:30–11:15

Determinants of Airport Choice in a Multi-Airport Region

Erwin A. BLACKSTONE, Andrew J. BUCK, and Simon HAKIM, Temple Univ., Philadelphia, USA

Discussant: Chieh-Yu HSIAO, Univ. California, Berkeley, USA



Friday, 8:30 – 11:15 AM

Paper Session 4C ~ Haku

Demographics and Geographical Information Science

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

8:30–9:15

Explaining Total Fertility Rates in Amman, Jordan, Using AMOEB

Arthur GETIS and Jared ALDSTADT, San Diego State Univ., USA

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

9:15–10:00

Modelling, Visualization and Statistical Analysis of Voting Patterns at the 2001 Australia Federal Election

Robert STIMSON, Tung-Kai SHYY, and Rod McCREA, Univ. Queensland, Brisbane, and Graeme HUGO and Errol BAMFORD, Univ. Adelaide, Australia

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

10:00–10:30, Coffee Break

10:30–11:15

Spatio-Temporal Data Models: Review and Prospects

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

Discussant: Waldo TOBLER, Univ. California, Santa Barbara, USA

Friday Morning Program Continues on Page 10...



Friday, 8:30 – 11:15 AM

Paper Session 4D ~ Pikake I

Remote Regions, IV:

Changing Practices in Cross-Cultural Resource Settings

Chair: Mike PRETES, Univ. Hawaii, Hilo, USA

8:30–9:15

Monitoring and Implementing Resource Agreements

Bruce HARVEY, Rio Tinto Ltd., Melbourne, Marcia LANGTON, Univ. Melbourne, and Peter CROOKE, Comalco Ltd., Brisbane, Australia

Discussant: Mike PRETES, Univ. Hawaii, Hilo, USA

9:15–10:00

Failures in Community Relations: What Are the Lessons of Poor Processes in the Mining Industry?

Sandy CALLOPE and Bella SAVO, Napranum Aboriginal Corporation, Weipa, Australia

Discussant: David C. NATCHER, Univ. Alaska, Anchorage, USA

10:00–10:30, Coffee Break

10:30–11:15

What Happened to the Two-Row Wampum? Creating Space for Canada's Aboriginal Peoples in Resource Management

Marc G. STEVENSON, Univ. Alberta, Edmonton, Canada

Discussant: E. Lance HOWE, Univ. Alaska, Anchorage, USA



Friday, 8:30 AM – 12:00 PM

Paper Session 4E ~ Mauna Loa

Modeling Regional Structure and Change, I

Chair: Ako MATSUMOTO, Chuo Univ., Japan

8:30–9:15

Do Regional Economic Conditions Affect Bank Condition? New Analysis of an Old Question

Mary DALY, John KRAINER, and Jose A. LOPEZ, Federal Reserve Bank of San Francisco, USA

Discussant: Jared HAZLETON, Univ. North Texas, Denton USA

9:15–10:00

Regional Interaction & Economic Diversity: Exploring the Role of Geographically Overlapping Markets

Martin ANDERSSON and Johan KLAESSON, Jönköping International Business School, Sweden

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

10:00–10:30, Coffee Break

10:30–11:15

Measuring Local Community Performance across Australia's Metropolitan Regions

Scott BAUM, Yolanda VON GELLUCUM, and Michelle HAYNES, Univ. Queensland, St. Lucia, Australia

Discussant: Godfrey BALDACCHINO, Univ. Prince Edward Island, Charlottetown, Canada

11:15–12:00

Location Decisions of Japanese New Manufacturing Plants in China: A Discrete Choice Analysis

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

Discussant: Bud WEINSTEIN, Univ. North Texas, Denton, USA



Friday, 8:30 AM – 12:00 PM

Paper Session 4F ~ Ilima

Housing Markets and Real Estate Analysis, II

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

8:30–9:15

The Anatomy of Rent Burdens: Immigration, Growth, and Rental Housing

Erica GREULICH, John M. QUIGLEY and Steven RAPHAEL, Univ. California, Berkeley, USA

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

9:15–10:00

Market Segmentation in a Single Urban Neighborhood

Clifford A. LIPSCOMB, Georgia Institute of Technology, Atlanta, USA

Discussant: John R. KNIGHT, Univ. of the Pacific, Stockton, CA, USA

10:00–10:30, Coffee Break

10:30–11:15

Metropolitan Variation in the Utilization of the Mortgage Interest Deduction

Peter BRADY and Julie-Anne CRONIN, U.S. Dept. of Treasury, Washington, D.C., and Scott HOUSER, California State Univ., Fresno, USA

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

11:15–12:00

Composite Hedonic Land Price Model for Osaka Prefecture, Japan

Shamim M. HAQUE and Makoto OKUMURA, Hiroshima Univ., Japan

Discussant: William E. HERRIN, Univ. of the Pacific, Stockton, CA, USA

Previous WRSA Meetings in Hawai'i

39th ~ Sheraton Kauai Resort, Poipu, Kauai ~ 2000

36th ~ The Royal Waikoloan, Waikoloa, Hawaii ~ 1997

32nd ~ Maui Inter-Continental Resort, Wailea, Maui ~ 1993

29th ~ Kaluokoi Hotel, Molokai ~ 1990

26th ~ Kona Surf Resort, Keauhou, Hawaii ~ 1987

22nd ~ The Prince Kuhio Hotel, Honolulu, Oahu ~ 1983



Friday, 8:30 AM – 12:00 PM

**Paper Session 4G ~ Plumeria
Labor Markets, II**

Chair: Jack OSMAN, San Francisco State Univ., USA
8:30–9:15

***Regional Differences in Vietnamese American Earnings
Discrimination: California versus Texas***

Don MAR, San Francisco State Univ., USA

Discussant: Martin SHIELDS, Penn State Univ.,
University Park, USA

9:15–10:00

***Ethnic Enclaves and Labor Markets: An Analysis of
Immigrant Outcomes in California***

Mussaddeq CHOWDHURY and Roberto PEDACE, Univ.
Redlands, CA, USA

Discussant: Rachel FRANKLIN, U.S. Census Bureau,
Washington, DC, USA

10:00–10:30, *Coffee Break*

10:30–11:15

***Matching, On-the-Job Search and Temporal Aggregation:
Panel Data Evidence from Finland, 1991–2002***

Aki KANGASHARJU and Sari PEKKALA, Government
Institute for Economic Research, Helsinki, and Jaakko
PEHKONEN, Univ. Jyväskylä, Finland

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

11:15–12:00

***An Analysis of Gross In- and Out-Migration Flows for
Pennsylvania Counties: A Closer Look at the Relative
Importance of Labor Market and Amenity Differentials
Between Origin and Destination Counties***

Martin SHIELDS, Stephan GOETZ, and Latika
BHARADWAJ, Pennsylvania State Univ., University Park,
USA

Discussant: Marc PERRY, U.S. Census Bureau,
Washington, DC, USA



Friday, 12:15 – 2:00 PM

**Annual Banquet Luncheon
Lokelani Ballroom**

(For All Meeting Participants; Tickets Required)

Chair: Koichi MERA, 44th WRSA President (2003–2004)

Presentation Ceremonies:

The 9th Annual Springer-Verlag Prize

Presented by:

Roger R. STOUGH, T. John KIM, and Börje
JOHANSSON, Co-editors, *The Annals of Regional Science*

The 18th Annual Charles M. Tiebout Prize

Presented by: John M. QUIGLEY, 41st WRSA President
(2000–2001)



Friday, 2:15 – 5:15 PM

**Paper Session 5A ~ Jade
Remote Regions, V:**

Rethinking Development in Remote Regions

Chair: Margaret ANDERSON, Univ. Northern British
Columbia, Prince Rupert, Canada

2:15–3:00

Blinded by Riches: Alaska's Permanent Funding Problem

Terrence COLE, Univ. Alaska, Fairbanks, USA

Discussant: Parry AGIUS, Macquarie Univ., Sydney,
Australia

3:00–3:45

Rethinking Development in Pacific Microstates

Michael PRETES, Univ. Hawaii, Hilo, USA

Discussant: Bret LUICK, Univ. Alaska, Fairbanks, USA

3:45–4:30

***The Great Potential for Tuna Industries in Micronesia
Remains Undeveloped in a Time of Need***

Peter T. WILSON and Dirk A. BALLENDORF, Univ.
Guam, Mangilao, USA

Discussant: Bruce HARVEY, Rio Tinto Ltd.,
Melbourne, Australia

4:30–5:15

***Cultural Resilience and Traditions of Non-Violence
Among Indigenous Peoples of Siberia***

Petr AZHUNOV, Indiana Univ., Bloomington, USA

Discussant: Margaret ANDERSON, Univ. Northern
British Columbia, Prince Rupert, Canada



Friday, 2:15 – 5:15 PM

**Paper Session 5B ~ Maile
The Knowledge Economy**

Chair: Nina J. GRUEN, Gruen Gruen + Associates,
San Francisco, USA

2:15–3:00

***Social Capital and the Transformation to the Knowledge
Society: A Comparison of Sweden, Japan, and the USA***

Hans WESTLUND, Swedish Inst. for Growth Policy
Studies, Östersund

Discussant: Peter FRIEDRICH, UNIBW, Munich,
Germany

3:00–3:45

***Economic Geography of Higher Education: The Role of
Higher Education Institutes in the Knowledge-Based
Economy***

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

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

Session 5B Continues on Page 12...

...Session 5B Continued

3:45–4:30

A New Geography for the Information Technology Industry?

Roger F. RIEFLER, Univ. Nebraska, Lincoln, USA
 Discussant: Brian P. HOLLY, U.S. Census Bureau,
 Washington, DC USA

4:30–5:15

From Digital Development Toward Planned Intelligent Development in Southeast Asia

Kenneth E. COREY and Mark I. WILSON, Michigan State Univ., East Lansing, USA
 Discussant: Tony SORENSEN, Univ. New England,
 Armidale, Australia



Friday, 2:15 – 4:30 PM

**Paper Session 5C ~ Haku
Issues for Small Jurisdictions**

Chair: Robert READ, Univ. Lancaster, United Kingdom

2:15–3:00

How Creative Politics Can Cheat the Dismal Science: Sub-National Island Jurisdictions in the Age of Globalization

Godfrey BALDACCHINO, Univ. Prince Edward Island,
 Charlottetown, Canada
 Discussant: John W. SOMMER, Univ. North Carolina,
 Charlotte, USA

3:00–3:45

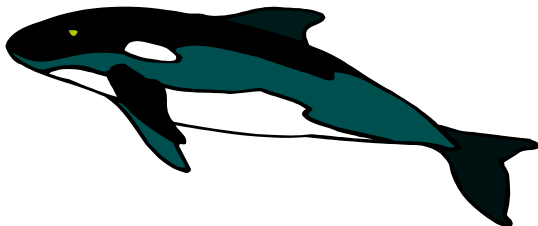
Bridging the Digital Divide: The Growth Implications of e-Commerce for Small and Developing States

Robert READ and Didier SOOPRAMANIEN, Univ. Lancaster, United Kingdom
 Discussant: Claude GRUEN, Gruen Gruen + Associates,
 San Francisco, USA

3:45–4:30

Small Firms in Small States: A Microeconomic Perspective on Sustainability and Sustainability Indicators

Robert READ and Adreene STAINES, Univ. Lancaster, United Kingdom
 Discussant: Volodymyr M. ANDERSON, Univ. Idaho,
 Moscow, USA



Friday, 2:15 – 5:15 PM

Paper Session 5D ~ Pikake I**Topics in Demography and Development**

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

2:15–3:00

The Sustainability of Demographic Progress Around the World

David A. PLANE, Univ. Arizona, Tucson, USA
 Discussant: Keith SCHWER, Univ. Nevada, Las Vegas

3:00–3:45

An Empirical Test of Purchasing Power Parity in Selected Developing Countries: A Panel Data Approach

Shidong ZHANG, Washington State Dept. of Ecology,
 Olympia, and Thomas C. LOWINGER, Washington State Univ., Pullman, USA

Discussant: Sean LIU, Cornell Univ., Ithaca, NY, USA

3:45–4:30

Urbanization, Sub-Urbanization and Counter-Urbanization of Population Sub-Groups in Countries in Transition

Thomas KONTULY, Univ. Utah, Salt Lake City, USA, and Tiit TAMMARU, Univ. Tartu, Estonia
 Discussant: Harry W. RICHARDSON, Univ. Southern California, Los Angeles, USA

4:30–5:15

California Leavin': Characteristics of Outmigration from the Golden State, 1995 to 2000

Marc PERRY, U.S. Census Bureau, Washington, DC, USA
 Discussant: Lay James GIBSON, Univ. Arizona,
 Tucson, USA



Friday, 2:15 – 4:30 PM

Paper Session 5E ~ Mauna Loa**Modeling Regional Structure and Change, II**

Chair: Mary RIDDEL, Univ. Nevada, Las Vegas, USA

2:15–3:00

Spatial Economy with Multi-Manufacturing Industries

Dao-Zhi ZENG, Kagawa Univ., Japan
 Discussant: Roger R. STOUGH, George Mason Univ.,
 Fairfax, VA, USA

3:00–3:45

A General Equilibrium Analysis of the Economic Impact of the Canadian Softwood Lumber Tariff on the Washington Economy

Joydeep GHOSH, David W. HOLLAND, Thomas HECKELEI, Washington State Univ., Pullman, Stephen DEVADOSS and Leroy STODICK, Univ. Idaho, Moscow, USA

Discussant: Patrick CANNING, U.S. Economic Research Service, Washington, DC

3:45–4:30

The Measurement of Optimal City Sizes in Japan: A Surplus Function Approach

Xiao-Ping ZHENG, Ritsumeikan Univ., Biwako-Kusatsu, Japan
 Discussant: Ron McCHESNEY, Ohio State Univ.,
 Columbus, USA

**Friday, 2:15 – 3:45 PM****Paper Session 5F ~ Ilima****Environmental Management and Policy, II**Chair: Thomas FOULKE, Univ. Wyoming, Laramie, USA
2:15–3:00**Making Collaboration Work: Lessons from a Success Story in Regional Planning**

Thomas GUNTON, T.M. FRAME, and J.C. DAY, Simon Fraser Univ., Burnaby, B.C., Canada

Discussant: James LIGHTBODY, Univ. Alberta, Edmonton, Canada

3:00–3:45

Natural Resource Management, the U.S. Forest Service, and Social Research

Audie BLEVINS and Katherine JENSEN, Univ. Wyoming, Laramie, USA

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

**Friday, 2:15 – 5:30 PM****W-1133 Presentations, III ~ Plumeria**

Convenor: Donald M. McLeod, Univ. Wyoming, Laramie, USA

**Friday, 5:30 – 7:00 PM****President's Reception****Pacific Terrace**

(For All Meeting Participants; Everyone Welcome!)

**Saturday, February 28****8:15 AM – 12:00 PM**

Registration continues (Kukui Terrace)

8:30 AM – 12:00 PM

Six Concurrent Paper Sessions:

6A, 6B, 6C, 6D, 6E, 6F

8:30 AM – 12:00 PM Panel Session 6G**10:00 – 10:30 AM,**

Coffee Break (Pavilion Lanai)

Lunch (On your own this day)**1:30 – 5:00 PM**

Seven Concurrent Paper Sessions:

7A, 7B, 7C, 7D, 7E, 7F, 7G

3:00 – 3:30 PM

Refreshment Break (Pavilion Lanai)

**Saturday, 8:30 AM – 12:00 PM****Paper Session 6A ~ Jade****Regional Growth and Structure**Chair: Aidan VINING, Simon Fraser Univ., Vancouver
8:30–9:15**Productivity Convergence and Spatial Dependence Among Spanish Regions**

Sandy DALL'ERBA, Univ. Pau, France

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

9:15–10:00

The Incentives for Process Innovations in a Duopoly with Regional Agglomeration

Olof EJERMO and Börje JOHANSSON, Jönköping International Business School, Jönköping, Sweden

Discussant: Aidan VINING, Simon Fraser Univ., Vancouver, B.C., Canada

10:00–10:30, Coffee Break

10:30–11:15

Space-Time Analysis of Industry Concentration

Stuart H. SWEENEY and Nicholas NAGLE, Univ. California, Santa Barbara, USA

Discussant: Johann KLAESSON, Jönköping International Business School, Sweden

11:15–12:00

Agglomeration and Economic Growth: Does Geographical Concentration Cause Growth or Vice Versa?

Johan KLAESSON and Lars PETTERSSON, Jönköping International Business School, Sweden

Discussant: Michael C. CARROLL, Bowling Green State Univ., KY, USA

**Saturday, 8:30 AM – 12:00 PM****Paper Session 6B ~ Maile****Spatial Economics and Regional Development**

Chair: Roger R. STOUGH, George Mason Univ., Fairfax, VA, USA

8:30–9:15

Using the Spatial Distribution of Bidders to Detect Collusion in the Marketplace: Evidence from the U.S.-Canada Softwood Lumber Dispute

Michael K. PRICE, Univ. Maryland, College Park, USA

Discussant: Tohru NAITO, Kyushu Kyoritsu Univ., Fukuoka, Japan

9:15–10:00

The Impacts of Paddy-field Consolidation Projects on the Rental Rate and Rental Agreement Level in Japan: An Application of the Stochastic Choice Model to the Capitalization Mechanism in the Regulated Market

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

Discussant: Luiz Ricardo CAVALCANTE, Univ. Illinois, Champaign-Urbana, USA

10:00–10:30, Coffee Break

Paper Session 6B Continues on Page 14...

*...Paper Session 6B Continued***10:30–11:15*****A Little Help from My Friend: Is Government Subsidy Helpful or Helpless?***

Ako MATSUMOTO, Chuo Univ., and Nobuko SERIZAWA, Niigata Univ., Japan

Discussant: Kenneth E. COREY, Michigan State Univ., East Lansing, USA

11:15–12:00***A Self-organized Dynamic Communication Platform for Risk Management among Multi-Stakeholders***

Yoshinobu KUMATA, Chiba University of Commerce, Akira KINOSHITA, Tohoku Bunka Gakuen University, and Toshizumi OHTA, Univ. of Electro-Communications, Japan

Discussant: Makoto OKUMURA, Hiroshima Univ., Japan

**Saturday, 8:30 AM – 12:00 PM****Paper Session 6C ~ Haku****Space and the City: The Good, The Bad, and The Ugly**

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

8:30–9:15***The Spatial Distribution of Public Goods: The Case of City Parks***

Kent KOVACS, Univ. California, Davis, USA

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

9:15–10:00***Bad Air Days: Houston and Los Angeles: The Equity Impacts of Poor Air Quality***

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

Discussant: Victor TEYE, Arizona State Univ., Tempe, USA

*10:00–10:30, Coffee Break***10:30–11:15*****Spatial and Economic Aspects of Crime: The Mapping of Homicides in Oakland, CA, 2003-2004: Are Murders Serially Correlated by Location and Is Police Response Appropriate?***

C. Daniel VENCILL, San Francisco State Univ., and Mary P. VENCILL, Berkeley Policy Associates, Oakland, CA, USA

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

11:15–12:00***Evaluation of Alternative Policies to Combat False Emergency Calls: Intra- and Interjurisdictional Perspectives***

Erwin A. BLACKSTONE, Andrew J. BUCK, and Simon HAKIM, Temple Univ., Philadelphia, USA

Discussant: C. Daniel VENCILL, San Francisco State Univ., USA

**Saturday, 8:30 – 11:15 AM****Paper Session 6D ~ Pikake I****Remote Regions, VI: Remote Resource Development**

Chair: Terrence Cole, Univ. Alaska, Fairbanks, USA

8:30–9:15***Big John Reeves: The Story of a Successful Fairbanks Businessman***

Claus M. NASKE, Univ. Alaska, Fairbanks, USA

Discussant: Petr AZHUNOV, Indiana Univ., Bloomington, USA

9:15–10:00***Is There an Alaska Solution? Avoiding the Tragedy of the Anti-Commons in Alaska Oil and Gas Development***

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

Discussant: Terrence COLE, Univ. Alaska, Fairbanks

*10:00–10:30, Coffee Break***10:30–11:15*****Local Control and Impacts of Oil and Gas Development: Nuiqsut Case Study***

Sharman HALEY, Univ. Alaska, Anchorage, USA

Discussant: Bella SAVO, Napranum Aboriginal Corporation, Australia

**Saturday, 8:30 AM – 12:00 PM****Paper Session 6E ~ Mauna Loa****Migration Flows and Migration Patterns**

Chair: Andrei ROGERS, Univ. Colorado, Boulder, USA

8:30–9:15***Micro-level Investigation of International Migration Decision: Empirical Evidences from Korea, USA, and Canada***

SeongWoo LEE, Seoul National Univ., Korea, and JiYoung PARK, Univ. Southern California, Los Angeles, USA

Discussant: Sara JOHANSSON, Jönköping International Business School, Sweden

9:15–10:00***Regional Growth and Interstate Migration***

Ardeshire ANJOMANI, Univ. Texas, Arlington, USA

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

*10:00–10:30, Coffee Break***10:30–11:15*****Migration of the Young, Single, and College Educated: 1995 to 2000***

Rachel FRANKLIN, U.S. Census Bureau, Washington, D.C., USA

Discussant: Hans WESTLUND, Swedish Inst. for Growth Policy Studies, Östersund

11:15–12:00***Inferring Migration Flows from Birthplace-Specific Population Stocks***

Andrei ROGERS, James RAYMER, and Lisa JORDAN, Univ. Colorado, Boulder, USA

Discussant: Thomas KONTULY, Univ. Utah, Salt Lake City, USA



Saturday, 8:30 AM – 12:00 PM

Paper Session 6F ~ Ilima

Water Resource Management

Chair: Katharine L. JACOBS, Univ. Arizona, Tucson, USA
8:30–9:15

Efficient Water Allocation with Win-Win Conservation Surcharges: The Case of the Ko'olau Watershed

Brooks A. KAISER, Gettysburg College, PA, Wetinee MATSATHIT, Basharat A.K. PITAFI, and James ROUMASSET, Univ. Hawaii, Honolulu, USA

Discussant: Don MUNTUN, Univ. Northern British Columbia, Prince George, Canada

9:15–10:00

Water Management Reform and the Choice of Contractual Form in China

Quiqiong HUANG, Scott ROZELLE, and Siwa MSANGI, Univ. California, Davis, USA, Jinxia WANG and Jikun HUANG, Chinese Academy of Sciences, China

Discussant: Gunter SCHRAMM, International Finance Corporation, Arlington, VA, USA

10:00–10:30, Coffee Break

10:30–11:15

Efficient Groundwater Pricing and Intergenerational Welfare: the Honolulu Case

Basharat A.K. PITAFI and James ROUMASSET, Univ. Hawaii, Manoa, USA

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

11:15–12:00

Trophic State Evaluation for Selected Lakes in Yellowstone National Park

Woodruff MILLER, Brigham Young Univ., Provo, USA

Discussant: Basharat A.K. PITAFI, Univ. Hawaii, Manoa, USA



Saturday, 8:30 AM – 12:00 PM

Panel Session 6G ~ Plumeria

AUBER / WRSA Joint Session:

Western States' Economic Outlook

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

Timothy D. HOGAN, Arizona State Univ., Tempe

California

Esmael ADIBI, Chapman Univ., Orange, CA

Colorado

Richard WOBBEKIND, Univ. Colorado, Boulder

Hawaii

Carl BONHAM, Univ. Hawaii, Honolulu, USA

Coffee Break, 10:00–10:30

Montana

Paul POLZIN, Univ. Montana, Missoula, USA

Nevada

R. Keith SCHWER, Univ. Nevada, Las Vegas, USA

Washington and Oregon

Pete PARCELLS and Amanda REMINGTON, Whitman College, Walla Walla, WA, USA

Western Regional Science Association



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David Plane

WRSA's Executive Assistant

Christopher Henrie



Saturday, 1:30 – 4:15 PM

Paper Session 7A ~ Jade

Location Analysis

Chair: Lars PETTERSSON, Jönköping International Business School, Jönköping, Sweden

1:30–2:15

A Hierarchical Location-Allocation Model with Travel Based on Expected Referral Distances

M. John HODGSON, Univ. Alberta, Edmonton, Canada, and Soren Kruse JACOBSEN, Lyngby, Denmark

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

2:15–3:00

Functional Closeness, Spatial Proximity and Regional Competitiveness: A Joint Spatial-Functional Analysis of the Washington and Baltimore Metropolitan Regions

Guang YANG, George Mason Univ., Fairfax, VA, USA

Discussant: Lars PETTERSSON, Jönköping International Business School, Jönköping, Sweden

3:00–3:30, Refreshment Break

3:30–4:15

Market Size and Dynamics of the Retail Service Industry: An Exploratory Study of the Swedish Experience During the 1990s

Johan KLAESSON and Lars PETTERSSON, Jönköping International Business School, Jönköping, Sweden

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



Saturday, 1:30 – 5:00 PM

Paper Session 7B ~ Maile

Remote Regions, VII: Regional Development in the North

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

1:30–2:15

Searching a New Approach to North-South Relations

Lassi HEININEN, Univ. Lapland, Rovaniemi, Finland

Discussant: Kim DOOHAN, Macquarie Univ., Sydney, Australia

2:15–3:00

Integrating Research, Local Knowledge, and Collective Action in a Dynamic Simulation Model of Cross-Boundary Regional Development

Matthew BERMAN, Univ. Alaska, Anchorage, Craig NICOLSON, Univ. Massachusetts, Amherst, and Gary KOFINAS, Univ. Alaska, Fairbanks, USA

Discussant: Richard HOWITT, Macquarie Univ., Sydney, Australia

3:00–3:30, Refreshment Break

3:30–4:15

“Wilde & Lawless” in the Peace: Rodeo in Canada’s Peace River Country

Mary-Ellen KELM, Univ. Northern British Columbia, Canada

Discussant: Claus M. NASKE, Univ. Alaska, Fairbanks, USA

4:15–5:00

Food Economics in YK Villages

Bret LUICK and Greg GOERING, Univ. Alaska, Fairbanks, and Andrea BERSAMIN, Univ. California, Davis, USA

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



Saturday, 1:30 – 5:00 PM

Paper Session 7C ~ Haku

Tourism Management

Chair: Juanita LIU, Univ. Hawaii, Manoa, USA

1:30–2:15

Using Input-Output Analysis to Estimate the Environmental Impacts of Tourism in Hawaii

Karl KIM, Univ. Hawaii, Manoa, USA

Discussant: John LOOMIS, Colorado State Univ., Ft. Collins, USA

2:15–3:00

The Tourism Sector in Baja California Sur: ‘Development Pole’ or Enclave?

Manuel ANGELES, Alba Eritrea GÁMEZ, and Antonina IVANOVA, Universidad Autónoma de Baja California Sur, La Paz, Mexico

Discussant: Esmael ADIBI, Chapman Univ., Orange, CA, USA

3:00–3:30, Refreshment Break

3:30–4:15

Potential of the Ethnic Minority Market for the North American Cruise Line Industry

Victor TEYE, Arizona State Univ., Tempe, USA

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

4:15–5:00

Is Transportation a Killer of Eco-Culture Tourism?

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

Discussant: Karl KIM, Univ. Hawaii, Manoa, USA

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

Conference participants are welcome to submit their papers to WRSA’s official journal, *The Annals of Regional Science*. All three of *Annals* coeditors plan to be in attendance at the conference. They would be pleased to discuss potential submissions with authors.

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



Saturday, 1:30 – 5:00 PM

Paper Session 7D ~ Pikake I

Explorations in the Structure of Urban Systems

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

1:30–2:15

Structural Change of the Chicago Economy: A Temporal Inverse Analysis

Yasuhide OKUYAMA, Michael SONIS, and Geoffrey J.D. HEWINGS, Univ. Illinois, Urbana-Champaign, USA

Discussant: Jung Hoon HAN, Univ. Queensland, St. Lucia, Australia

2:15–3:00

A Hierarchical Metropolitan Change Model (MCM) with Global and Local Linkages

Ron McCHESNEY, Ohio State Univ., Columbus, USA

Discussant: Clifford A. LIPSCOMB, Georgia Institute of Technology, Atlanta, USA

3:00–3:30, Refreshment Break

3:30–4:15

Transport Systems and Urban Equilibrium

Lars LUNDQVIST, Royal Institute of Technology, Stockholm, Sweden, and Tschangho John KIM, Univ. Illinois, Urbana-Champaign, USA

Discussant: Marlon G. BOARNET, Univ. California, Irvine, USA

4:15–5:00

Differentiating In and Outflows: A Multiple Discriminant Analysis

Jung Hoon HAN, Univ. Queensland, St. Lucia, Australia

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



Saturday, 1:30 – 5:00 PM

Paper Session 7E ~ Mauna Loa

Clusters and Agglomeration Externalities

Chair: Daisuke IKAZAKI, Kumamoto Gakuen Univ., Japan

1:30–2:15

Clusters and Intercluster Spillovers: Their Influence on the Performance of Canadian Information Technology Firms

Steven GLOBERMAN, Western Washington Univ., Bellingham, USA, Daniel SHAPIRO and Aidan VINING, Simon Fraser Univ., Vancouver, Canada

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

2:15–3:00

Output Effects of Agglomeration Externalities

Eckhardt BODE, Institute for World Economics, Kiel, Germany

Discussant: Börje JOHANSSON, Jönköping International Business School, Sweden

3:00–3:30, Refreshment Break

3:30–4:15

High-Tech Clusters: Tech Led Economic Development

Michael C. CARROLL, Bowling Green State Univ., Bowling Green, USA

Discussant: Olof EJERMO, Jönköping International Business School, Sweden

4:15–5:00

A Menagerie of Agglomeration and Network Externalities

Börje JOHANSSON, Jönköping International Business School, Sweden

Discussant: Sandy DALL'ERBA, Univ. Pau, France



Saturday, 1:30 – 5:00 PM

Paper Session 7F ~ Ilima

The Primary Sector: Management Issues

Chair: Keith CRIDDLE, Utah State Univ., Logan, USA

1:30–2:15

Genetically Modified Crops and Agricultural Landscapes: Spatial Patterns of Contamination

Ken BELCHER, James NOLAN, and Peter W.B.

PHILLIPS, Univ. Saskatchewan, Saskatoon, Canada

Discussant: Gerald BOEKSEN, Oklahoma State Univ., Stillwater, USA

2:15–3:00

Price Discovery in Soybean Futures Market

Bahram ADRANGI, Univ. Portland, OR, USA

Discussant: Ghazi SHUKUR, Jönköping International Business School, Sweden

3:00–3:30, Refreshment Break

3:30–4:15

Regional Fishery Management Organizations: How to Reduce Effort and Select New Members?

Kim Hang Pham DO, Henk FOLMER, and Henk NORDE, Tillburg Univ., The Netherlands

Discussant: David T. TAYLOR, Univ. Wyoming, Laramie, USA

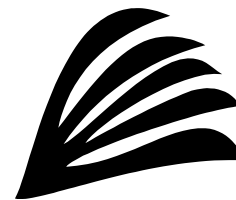
4:15–5:00

Economic Principles of Sustainable Multi-Use Fisheries Management

Keith R. CRIDDLE, Utah State Univ., Logan, USA

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

Saturday Afternoon Program Continues on Page 18...





Saturday 1:30 – 4:15 PM

Paper Session 7G ~ Plumeria

Patterns and Trends in

Regional Development Around the World

Chair: Jae Ik KIM, Keimyung Univ., Daegu, Korea

1:30–2:15

The Roles of National Development Planning in the Era of Population Decrease

Jun-ya FUKUMOTO, Univ. Tokyo, Japan

Discussant: Robert READ, Univ. Lancaster, United Kingdom

2:15–3:00

The Transition to a National Banking System: The Effects of Mergers and Acquisitions

Audrey E. CLARKE, George Mason Univ., Fairfax, VA, and Brian P. HOLLY, U.S. Census Bureau, Washington, DC, USA

Discussant: Jared HAZLETON, Univ. North Texas, Denton, USA

3:00–3:30, Refreshment Break

3:30–4:15

The Cost of a Structural Change: A Large Automobile Plant in a Brazilian Less Developed Region

Luiz Ricardo CAVALCANTE and Simone UDERMAN, Univ. Illinois, Urbana-Champaign, USA

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



5:00 PM, End of Conference

And Next Year...

**We return to a WRSA favorite: San Diego
The Hyatt-Regency Islandia
February 23–26, 2005**

Next year, the WRSA conference returns to one of the group's long-time favorite cities: San Diego.

Seven previous Annual Meetings were held in San Diego at Vacation Village aka the Princess Resort. Those were in 1968, '70, '72, '76, '79, '89, and, most recently, 1995. One memorable Annual Meeting, in 1985, took place at the Hotel del Coronado.

This time, a decade after our last visit, we'll try out a different venue: the lovely Hyatt-Regency Islandia on the shores of Mission Bay.

The conference will begin with an opening session and reception on Wednesday afternoon, February 23. Papers sessions will be held all day Thursday, Friday, and Saturday, February 24–26.

Get working on a paper for submission by the traditional October 15, 2004 deadline. This is one WRSA Meeting you won't want to miss!

Winners of the Charles M. Tiebout Prize in Regional Science:

17th Competition 2003 (co-winners); **Chokri Dridi**, University of Illinois, Urbana-Champaign, and **Bhanu Yerra**, University of Minnesota

16th Competition 2002; **Tracy Gordon**, University of California, Berkeley

15th Competition 2001; **Brian Mikelbank**, Ohio State University

14th Competition 2000; **Arno van der Vlist**, Free University of Amsterdam

13th Competition 1999; **Kara Kockelman**, University of Texas, Austin

12th Competition 1998; **Alexander C. Vias**, University of Arizona

11th Competition 1997; **Seong Woo Lee & Woo Suk Zhee**, University of Southern California

10th Competition 1996; **Steven P. Raphael**, University of California, Berkeley

9th Competition 1995; **David M. Levinson**, University of California, Berkeley

8th Competition, 1994; **Ricardo Gazel**, University of Illinois

7th Competition, 1993; (cowinners) **Hsin-Ping Chen**, University of California, Irvine, and **Alastair McFarlane**, University of Michigan

6th Competition, 1992; **Henry Buist**, University of Pennsylvania

5th Competition, 1991; **Katherine M. O'Regan**, University of California, Berkeley

4th Competition, 1990; **T. Wong**, University of Manitoba

3rd Competition, 1989; **Scott Campbell**, University of California, Berkeley

2nd Competition, 1988; **Stephen J. Appold**, University of North Carolina

1st Competition, 1987; **Timothy J. Fik**, University of Arizona



Program Participant Locator

Session assignments are listed following each participant's name:

1A, 1B, 1C, 1D, 1E, 1F on Thursday Morning
2A, 2B, 2C, 2D, 2E, 2F, 2G on Thursday Afternoon
3A, 3B, 3C, 3D, 3E, 3F, 3G on Thursday Evening

4A, 4B, 4C, 4D, 4E, 4F, 4G on Friday Morning
5A, 5B, 5C, 5D, 5E, 5F on Friday Afternoon

6A, 6B, 6C, 6D, 6E, 6F, 6G on Saturday Morning
7A, 7B, 7C, 7D, 7E, 7F, 7G on Saturday Afternoon

PS = Pre-Conference Seminar on Tuesday

OS = Opening Session on Wednesday Afternoon

P1 = W-1133 Presentations on Thursday Morning

P2 = W-1133 Presentations on Thursday Afternoon

BM = W-1133 Business Meeting on Thursday Afternoon

WB = WRSA Board Meeting on Thursday Afternoon

AB = Annual Banquet Luncheon on Friday

P3 = W-1133 Presentations on Friday Afternoon

Roman typeface (regular font) indicates Paper presentations.

Boldface indicates Chair assignments.

Italics indicate Discussant assignments.

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The Springer-Verlag Prize

The Springer-Verlag Prize is presented annually at the Annual Banquet Luncheon by the Co-editors of the Association's official journal: *The Annals of Regional Science*, which is owned and published by Springer-Verlag.

The prize recognizes the most outstanding paper at the Annual Meeting authored by a junior scholar or scholars, as selected by the editors of the *Annals*.

Six of the previous ten winners are scheduled to present papers at this year's conference!

8th ~ 2003 ~ **Adelheid Holl**, University of Sheffield, England. Presented at the 42nd Annual Meeting, Rio Rico, Arizona.

7th ~ 2002 ~ **Johan Klaesson** and **Lars Pettersson**, Jönköping International Business School, Sweden. Presented at the 41st Annual Meeting, Monterey, California.

6th ~ 2001 ~ **Mary C. Riddell**, University of Nevada, Las Vegas. Presented at the 40th Annual Meeting, Palm Springs, California.

5th ~ 2000 ~ **Audrey C. Clarke**, Western Oregon University. Presented at the 39th Annual Meeting, Poipu, Kauai, Hawaii.

4th ~ 1999 ~ **Stuart H. Sweeney**, University of California, Santa Barbara, and **Edward J. Feser**, University of North Carolina, Chapel Hill. Presented at the 38th Annual Meeting, Ojai, California.

3rd ~ 1998 ~ **Robin Lindsey**, University Alberta. Presented at the 37th Annual Meeting, Monterey, California.

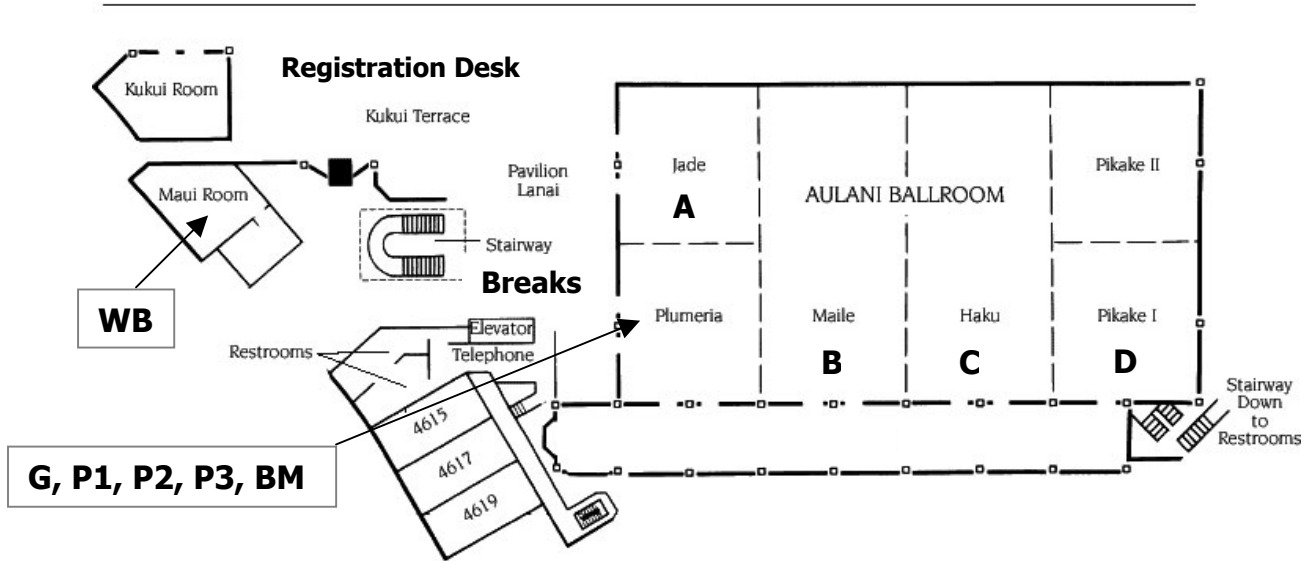
2nd ~ 1997 ~ **Brian Roberts**, Queensland University of Technology. Presented at the 36th Annual Meeting, Waikoloa, Hawaii.

1st ~ 1996 ~ **Harvey J. Miller**, University of Utah. Presented at the 35th Annual Meeting, Napa, California.

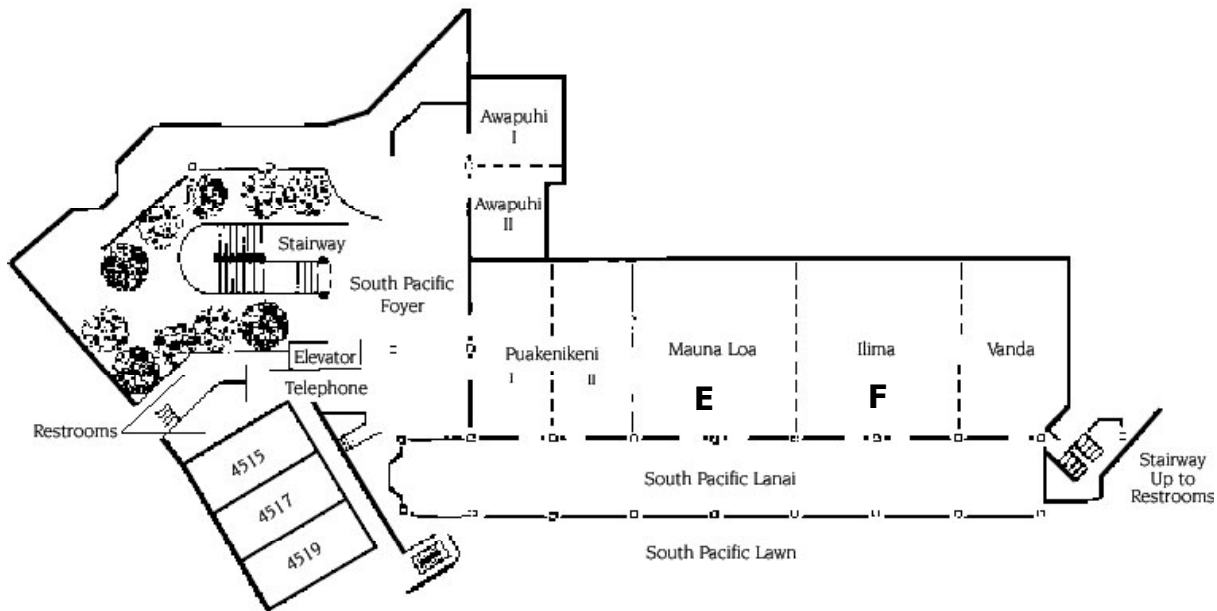
Maps of Session Locations at the Wailea Marriott

The Wednesday opening session and Friday luncheon will be held in the Lokelani Ballroom, just off the main lobby of the hotel, and the Wed. and Fri. evening receptions on the Pacific Terrace: rooftop level.

All A, B, C, D, and G Sessions, as well as the W-1133 Presentations and Business Meeting, and the WRSA Board Meeting, will be held in rooms on the Lobby Level:



All E and F Sessions will be held on the Lower Level:



Notes: