

## DAVID ALLEN PLANE

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### EDUCATION

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|------------------------------------|-------|--|
| Cornell University                 |       | 1972 Summer Program, Architecture and Planning       |
| Université de Toulouse – Le Mirail |       | 1976 Foreign Study Program                           |
| Dartmouth College                  | B.A.  | 1976 Geography; Urban and Regional Studies           |
| University of Pennsylvania         | M.A.  | 1977 Regional Science (Transportation Concentration) |
|                                    | Ph.D. | 1981 Regional Science                                |

Doctoral Dissertation: *A "minimum information" approach to the spatial modelling of human migration: with applications to U.S. interstate flows* (Supervisor: Tony E. Smith)

### MAJOR FIELDS

Population (Migration), Transportation, Regional Science, Regional Development, Quantitative Modeling

### EMPLOYMENT

Professor, Department of Geography and Regional Development / School of Geography and Development, University of Arizona, Tucson, AZ (1992 to present)

Head, Department of Geography and Regional Development, University of Arizona, Tucson, AZ (1990 to 1997; Acting Head: 2000–2001)

Associate Professor of Geography and Regional Development, University of Arizona, Tucson, AZ (1986 to 1992)

Assistant Professor of Geography and Regional Development, University of Arizona, Tucson, AZ (1981 to 1986)

Statistician, U.S. Bureau of the Census, Washington, DC (1979 to 1980)

Assistant Planner, Office of the St. Lawrence County Planning Board, Potsdam, NY (Various periods, 1974 to 1976)

### HONORS AND AWARDS

Rufus Choate Scholar, Dartmouth College, 1972–76.

*(Last revised: 10/23/14)*

**HONORS AND AWARDS (Continued)**

Phi Beta Kappa, Dartmouth College (Alpha of New Hampshire Chapter), elected 1975.

Degree awarded Summa Cum Laude with High Distinction in Major Field, Dartmouth College, 1976.

University of Pennsylvania, Graduate Studies Fellowship, 1976–1977; 1978–1979.

U.S. Department of Transportation, Research Assistantship, 1977–1978.

American Statistical Association / National Science Foundation, Research Traineeship, 1979–1981.

University of Arizona, College of Business & Public Administration, Summer Research Support, 1981; 1982.

Regional Science Association, Ph.D. Dissertation Competition, Finalist, 1982.

University of Arizona, College of Social & Behavioral Sciences, Outstanding Undergraduate Advisor Award, 1999

North American Regional Science Council, David E. Boyce Award, Presented in Montréal, Canada, 1999

International Prize of Environmental Creation. Presented at the University of Hokkaido, Sapporo, Japan, October 8, 2002.

Fellow, Regional Science Association International. Elected 2010.

Fellow, Western Regional Science Association. Elected 2011.

Lifetime Achievement Award, Association of American Geographers, Population Specialty Group, April 2013.

**PUBLICATIONS*****Books and Monographs***

*The Geographical Analysis of Population: With Applications to Planning and Business.* (New York: John Wiley & Sons, 1994). David A. Plane and Peter A. Rogerson. 417 pp.

*Fifty Years of Regional Science.* (Berlin: Springer-Verlag, 2004). Raymond J.G.M. Florax and David A. Plane (editors). 400+viii pp.

*Classics in Planning: Regional Planning.* (Cheltenham, UK and Northampton, MA, USA: Edward Elgar, 2007). 691+xvii pp. David A. Plane, Lawrence D. Mann, Kenneth Button, and Peter Nijkamp (editors).

*Patterns of Metropolitan and Micropolitan Population Change: 2000 to 2010.* 2010 Census Special Report: C2010SR-01. Issued September 2012. U.S. Census Bureau, Washington, DC. Steven G. Wilson, David A. Plane, Paul J. Mackun, Thomas R. Fischetti, and Justyna Goworowska (with Darryl T. Cohen, Marc J. Perry, and Geoffrey W. Hatchard)

***Articles in Refereed Journals***

The geography of urban commuting fields: some empirical evidence from New England, *Professional Geographer* 32 (1981) 182–188.

Estimation of place-to-place migration flows from net migration totals, *International Regional Science Review* 6 (1981) 33–52.

Recent migration patterns in the developed world: a clarification of some differences between our and IIASA's findings, *Environment and Planning A* 13 (1981) 243–250 (D. R. Vining, R. Pallone, and D. A. Plane).

An information theoretic approach to the estimation of migration flows, *Journal of Regional Science* 22 (1982) 441–456.

Redistricting reformulated: a maximum interaction/minimum separation objective, *Socio-Economic Planning Sciences* 16 (1982) 241–244.

Internal migration in the United States: an evaluation of federal data, *Review of Public Data Use* 10 (1982) 285–311 (A. M. Isserman, D. A. Plane, and D. B. McMillen).

U.S. interstate labor force migration: an analysis of trends, net exchanges, and migration subsystems, *Socioeconomic Planning Sciences* 17 (1983) 251–266 (D. A. Plane and A. M. Isserman).

Migration space: doubly-constrained gravity model mapping of relative interstate separation, *Annals of the Association of American Geographers* 74 (1984) 244–256.

The cross-regional variation of in-migration and out-migration, *Geographical Analysis* 16 (1984) 162–175 (D. A. Plane, P. A. Rogerson, and A. Rosen).

A systemic demographic efficiency analysis of U.S. interstate population exchange, 1935–80, *Economic Geography* 60 (1984) 294–312.

Modeling temporal change in flow matrices, *Papers of the Regional Science Association* 54 (1984) 147–164 (P. A. Rogerson and D. A. Plane).

Economic-demographic models for forecasting interregional migration, *Environment and Planning A* 17 (1985) 185–198 (D. A. Plane and P. A. Rogerson).

A general model for estimating the number of tertiary establishments in communities: an Arizona perspective, *Social Science Journal* 22 (1985) 77–93 (G. F. Mulligan, M. L. Wallace, D. A. Plane).

Forecasting interstate migration with limited data: a demographic-economic approach, *Journal of the American Statistical Association* 80 (1985) 277–285 (A. M. Isserman, D. A. Plane, P. A. Rogerson, and P. M. Beaumont).

Dynamic flow modeling with interregional dependency effects: an application to structural change in the U.S. migration system, *Demography* 23 (1986) 91–104 (D. A. Plane and P. A. Rogerson).

The geographic components of change in a migration system, *Geographical Analysis* 19 (1987) 283–299.

Competition for university enrollments: the repercussions of changing U.S. age composition, 1978 to 2001, *The Social Science Journal* 26 (1989) 205–221.

Population migration and economic restructuring in the United States, *International Regional Science Review* 12 (1989) 263–280.

A causative matrix approach to interpreting structural change, *Economic Systems Research: The Journal of the International Input-Output Association* 2 (1990) 261–270 (R. Jackson, P. A. Rogerson, D. A. Plane, and B. O'hUallachain).

Tracking the baby boom, the baby bust, and the echo generations: how age composition regulates US migration, *Professional Geographer* 43 (1991) 416–430 (D. A. Plane and P. A. Rogerson).

New directions in migration research: perspectives from some regional science disciplines, *The Annals of Regional Science* 25 (1991) 237–270 (M. J. Greenwood, P. R. Mueser, D. A. Plane, and A. M. Schlottmann)

Age-composition change and the geographical dynamics of interregional migration in the U.S., *Annals of the Association of American Geographers* 82 (1992) 64–85.

Requiem for the fixed-transition-probability migrant, *Geographical Analysis* 25 (1993) 211–223.

Demographic influences on migration, *Regional Studies* (1993) 27: 375–383.

The wax and wane of interstate migration patterns in the US in the 1980s: A demographic effectiveness field perspective, *Environment & Planning A* 26 (1994) 1545–1561.

Comment: On discipline and disciplines in regional science, *Papers in Regional Science: The Journal of the RSAI* 73 (1994) 19–23.

Migration patterns during a period of political and economic shocks in the former Soviet Union: A case study of Yaroslavl' oblast. *Professional Geographer* 47, 1 (1995) 17–30. (B. A. Mitchneck and D. A. Plane).

Employment trends in geography; Part 1: Enrollment and degree patterns. *Professional Geographer* 47, 3 (1995) 317–328. (P. Gober, A. K. Glasmeier, J. M. Goodman, D. A. Plane, H. A. Stafford, and J. S. Wood).

Employment trends in geography; Part 2: Current demand conditions. *Professional Geographer* 47, 3 (1995) 329–336. (P. Gober, A. K. Glasmeier, J. M. Goodman, D. A. Plane, H. A. Stafford, and J. S. Wood).

Employment trends in geography; Part 3: Future demand conditions. *Professional Geographer* 47, 3 (1995) 336–346. (P. Gober, A. K. Glasmeier, J. M. Goodman, D. A. Plane, H. A. Stafford, and J. S. Wood).

Migration and the quasi-labor market in Russian cities. *International Regional Science Review* 21 (1995) 267–288. (B. A. Mitchneck and D. A. Plane).

The role of migration research in regional science. *Papers in Regional Science: The Journal of the RSAI* 76 (1997) 133–153. (D. A. Plane and C. Bitter).

Measuring spatial focusing in a migration system. *Demography* 34 (1997) 251–262. (D. A. Plane and G. F. Mulligan).

The dynamics of neighborhood age composition. *Environment and Planning A* 30 (1998) 1461–1472. (P. A. Rogerson and D. A. Plane).

Fuzzy-set migration regions. *Geographical & Environmental Modelling* 2 (1998) 141–162.

Migration drift. *Professional Geographer* 51 (1999) 1–11.

Geographical pattern analysis of income migration in the United States. *International Journal of Population Geography* 5 (1999) 195–212.

The role of regional science in migration research. *The Review of Regional Studies* 29 (2000) 79–83.

Methods of mapping migration flow patterns. *Southeastern Geographer* 41 (2001) 89–104. (S. C. Holland and D. A. Plane)

Streams, Flows, Currents, Cycles, and Regimes: Propositions on the Spatiotemporal Nature of Migration Systems. *International Journal of Environmental Creation*. 4 (2001) 60–73.

- Age Articulation of U.S. Inter-metropolitan Migration. *The Annals of Regional Science* 37 (2003) 107–130. (D. A. Plane and F. Heins)
- Perplexity, Complexity, Metroplexity, Microplexity: Perspectives for Future Research on Regional Growth and Change. *The Review of Regional Studies* 33 (2003) 104–120.
- Palm Trees and Steel Bees: Berkeley, Spring 1969. *you are here: the journal of creative geography* 5 (Summer 2003) 30–32.
- Introducing the Brightest of Dawns: Regional Science in “Papers.” *Papers in Regional Science* 83 (2004), 5–29.
- A Shift-Share Method for the Analysis of Regional Fertility Change: An Application to the Decline of Childbearing in Italy, 1952–1991. *Geographical Analysis* 36 (2004) 1–20. (R. Franklin and D.A. Plane)
- The Post-Trevartha Boom: The Rise of Demographics and Applied Population Geography. *Population, Space, and Place* 10 (2004) 285–288.
- The Conditions of Coastality (Presidential Address). *Yearbook of the Association of Pacific Coast Geographers* 67 (2005) 9–23.
- Migration up and down the urban hierarchy and across the life course. *Proceedings of the National Academy of Sciences* 102 (2005) 15313–15318 (D. A. Plane, C. J. Henrie, and M. J. Perry)
- Pandora’s Box: The Potential and Peril of Migration Data from the American Community Survey. *International Regional Science Review* 29 (2006) 231–246. Rachel S. Franklin and David A. Plane.
- Decentralization of the Nation’s Main Street: New Coastal-Proximity-Based Portrayals of Population Distribution in the United States, 1950–2000. *Professional Geographer* 58 (2006) 448–459. Christopher J. Henrie and David A. Plane.
- Exodus from the California Core: Using Demographic Effectiveness and Migration Impact Measures to Examine Population Redistribution within the Western United States. *Population Research and Policy Review* 27 (2008) 43–64. Christopher J. Henrie and David A. Plane.
- Quality of Life and the Migration of the College-Educated: A Life-Course Approach. *Growth and Change* 39 (2008) 58–94. Ronald L. Whisler, Brigitte S. Waldorf, Gordon F. Mulligan and David A. Plane.
- Ties That No Longer Bind? The Patterns and Repercussions of Age-Articulated Migration. *Professional Geographer* 61 (2009) 4–20. David A. Plane and Jason R. Jurveich.
- Introduction: New Perspectives on Regional Development. *Région et Développement* 33 (2011) 5–8. Sandy Dall’erba, Jaewon Lim, Daoqin Tong and David A. Plane.
- The First Fifty Years of the Western Regional Science Association: The Making of the WRSA Brand. *The Annals of Regional Science* 48 (2012) 363–389. Lay James Gibson, Robert L. Monahan and David A. Plane.
- Documenting Regional Science Exceptionalism: What's Special about WRSA? *The Annals of Regional Science* 48 (2012) 391–403. Rachel S. Franklin, David A. Plane, and Warren Gill.
- What about Aging in Regional Science? *The Annals of Regional Science* 48 (2012) 469–483.
- The Role of Hierarchical Proximity in Migration and Population Growth: Urban Shadow Versus Urban Synergy Effects. *Studies in Regional Science*, 42 (2012) 109-128. David A. Plane and Christopher J. Henrie.

Voters on the Move: The Political Effectiveness of Migration and Its Effects on State Partisan Composition. *Political Geography*, 31 (2012) 429–443. Jurjevich, Jason R. and David A. Plane.

The Hoover Index of Population Concentration and the Demographic Components of Change: A Paper in Memory of Andy Isserman. *International Regional Science Review* 36 (2013) 97–114. Peter A. Rogerson and David A. Plane.

A New Spatial Optimization Perspective on the Delineation of Metropolitan and Micropolitan Statistical Areas. *Geographical Analysis* 46 (2014) 230–249. Daoqin Tong and David A. Plane.

#### **Other Articles in Periodicals**

Where do new Texans come from? *Texas Business Review* 56 (1982) 291–295.

Monitoring migration trends, *American Demographics* 7 (February 1985) 26–29, 47 (P. A. Rogerson and D. A. Plane).

Interstate migration to Arizona, *Arizona's Economy* (February 1986). Also reprinted in *Newsletter, Population Statistics Unit, Arizona Department of Economic Security* (1985).

In-migrants to the Phoenix and Tucson metropolitan areas: a comparison, *Arizona Review* 35 (1987) 9–18.

Uses and abuses of population estimation: the case of Arizona, *Arizona Review* 36 (1988) 20–34 (A. H. Charney, D. A. Plane, and G. C. Woodard).

#### **Chapters in Scholarly Books**

The ECESIS economic-demographic model of the United States. Chapter 9 in *Population Change and the Economy*, ed. A. M. Isserman. Boston and The Hague: Kluwer-Nijhoff (1986) 203–238 (P. M. Beaumont, A. M. Isserman, D. B. McMillen, D. A. Plane, and P. A. Rogerson).

Arizona migration patterns. Box article in *Metropolitan Arizona*, ed. Charles Sargent. Scottsdale, AZ: Biffington Books (1988) 64–65 (K. E. McHugh and D. A. Plane).

The interregional impacts of U.S. core-periphery net migration. Chapter 3 in *Regional Structural Change: Experience and Prospects in Two Mature Economies*, eds. L. J. Gibson and R. J. Stimson. Peace Dale, RI: Regional Science Research Institute, Monograph Series No. 8 (1989) 33–46.

US migration pattern responses to the oil glut and recession of the early 1980s: an application of shift-share and causative matrix techniques. Chapter 15 in *Advances in Regional Demography*, eds. P. Congdon and P. Batey. London: Belhaven Press (1989) 258–280 (D. A. Plane and P. A. Rogerson).

The ten commandments of migration research. In *Regional Science: Retrospect and Prospect*, eds. D. E. Boyce, P. Nijkamp, and D. Shefer. Berlin: Springer-Verlag (1991) 15–42 (David A. Plane and Peter A. Rogerson).

Population migration and economic restructuring in the United States." In *Modern Classics in Regional Science: Regional Dynamics*, eds. Kingsley E. Haynes, Kenneth J. Button, and Peter Nijkamp. London: Edward Arnold (1996).

Long-term influences on migration patterns. Sidebar in *Rediscovering Geography*. Washington, DC: National Academy of Sciences, National Research Council (1997) 90–91.

Employment trends in geography. In *Rediscovering Geography*. Washington, DC: National Academy of Sciences, National Research Council (1997) 200–217 (P. Gober, A. K. Glasmeier, J. M. Goodman, D. A. Plane, H. A. Stafford, and J. S. Wood). Reprint of the three-part series published in the *Professional Geographer*.

Time series perspectives and physical geography analogies in migration research. In Kavita Pandit and Suzanne Davies Withers (eds.) *Migration and Restructuring in the U.S.: A Geographic Perspective*. Rowman and Littlefield (1999) 313–335.

The Role of Medium-Sized Cities in Recent Growth and Migration Trends in the United States. In *Villes moyennes et mondialisation: Renouveau de l'analyse et des stratégies*, eds. François Charbonneau, Paul Lewis, and Claude Manzagol (Montréal: Éditions Trames, 2003) 60–67.

Population Distribution: Geographic Areas. Chapter 5 in *The Methods and Materials of Demography*. 2<sup>nd</sup> Edition, eds. David A. Swanson and Jacob S. Siegel (San Diego and London: Elsevier Academic Press, 2004) 81–104.

Introducing the Brightest of Dawns: Regional Science in ‘Papers.’ In *Fifty Years of Regional Science*, eds. Raymond J.G.M. Florax and David A. Plane (Heidelberg: Springer, 2004) 5–30. (Raymond J.G.M. Florax and David A. Plane).

North America: A Region of Core Peripheral Extremes. Chapter 2 in *Global Regionalization: Core Peripheral Trends*, ed. H.S. Geyer (Cheltenham, UK and Northampton, MA, USA: Edgar Elgar Publishers, 2006) 41–84. (Harry W. Richardson, Larry S. Bourne, Peter Gordon, Christopher J. Henrie, David Plane, Jim Simmons, and Bumsoo Lee).

Regional Planning: Scoping the Scene. In *Regional Planning: Classics in Planning*, eds. David A. Plane, Lawrence D. Mann, Kenneth Button, and Peter Nijkamp (Cheltenham, UK and Northampton, MA, USA, 2007) xiii–xvii. (David A. Plane, Lawrence D. Mann, Kenneth Button, and Peter Nijkamp).

Immigration in the USA: Evolving Demographic Contexts, Geographies and Policy Debates. Chapter 12 in H.S. Geyer (ed.) *International Handbook of Urban Policy*, Volume 2: Issues in the Developed World (Cheltenham, U.K.: Edward Elgar Publishing, 2009) 259–275. (D. Plane and L. Hoffman).

Housing Markets, the Life Cycle, and Migration Up and Down the Urban Hierarchy, Chapter 16 in *Handbook of Housing Studies*, eds. D.F. Clapham, W.A.V. Clark, and K. Gibb (Los Angeles: Sage, 2012) 295–311. (Christopher Bitter and David A. Plane).

### **Textbook Contributions**

Urban transportation: policy alternatives. Chapter 18 in *The Geography of Urban Transportation*, 2nd edition, ed. S. Hanson. New York: Guilford Press (1995) 435–469. (First edition, chapter 16, pp. 386–414, 1986)

A Closer Look: California or Bust? The Future Direction of U.S. Population ‘Drift.’ In Tom L. McKnight, *Regional Geography of the United States and Canada*, 3<sup>rd</sup> Edition. Englewood Cliffs, NJ: Prentice-Hall (2000) 44–45.

### **Conference Proceedings**

Issues in the specification of migration forecasting models. In *L'exode urbain, ses causes, ses implications, son avenir / urban exodus, its causes, significance, and future: actes du colloque des 13-14-15-avril 1982 / proceedings of the conference of April 13-14-15-1982*. Département de Géographie, Université de Montréal (1982) 159–172.

The ECESIS economic demographic interregional model of the United States. In *American Statistical Association, Proceedings of the Social Statistics Section* (1982) 429–432 (P. M. Beaumont, A. M. Isserman, D. B. McMillen, D. A. Plane, and P. A. Rogerson).

Exploring the impacts of large-scale demographic and economic change on the system of interregional migration in the United States. In *Proceedings of the Korea-U.S. Joint Seminar on Scientific Methodology for Regional Environment* (1992) 363–378. Korea Section of the RSAI, Seoul, Korea.

Demographic Perspectives on Future Issues for the Colorado River States. Transcript of Panel Session 3, "Population and Growth." Colorado River Symposium. The Bishop's Lodge, Santa Fe, New Mexico. September 2009. <http://www.watereducation.org>

### ***Book and Software Reviews***

International Encyclopedia of Population, ed. J. A. Ross. *Journal of Regional Science* 24 (1984) 302–304.

Population: A Basic Orientation, C. B. Nam and S. Philliber. *Journal of the American Planning Association* 15 (1985) 103.

Life Tables and the Leslie Matrix, CONDUIT. *Professional Geographer* 38 (1986) 425–426.

Population Structures and Models, eds. R. Woods and P. Rees. *The Annals of Regional Science* 22 (1988) 109–112.

Filling up America: An Economic-Demographic Model of Population Growth and Distribution in the Nineteenth-century United States, M. O. Shapiro. *Journal of Regional Science* 28 (1988) 437–441.

Migration and Residential Mobility: Macro and Micro Approaches, Martin Cadwallader. *Economic Geography* 71 (1995) 223–225.

Progress: Geographical Essays, Edited by Robert David Sack. *Journal of Regional Science* 44, 4 (2004): 799–801.

New Faces in New Places, Edited by Douglas S. Massey. *Journal of Regional Science* 49 (2010).

Making the Metropolitan Landscape: Standing Firm on Middle Ground, Edited by Jacqueline Tatom with Jennifer Stauber, *Journal of the American Planning Association* 77, 1 (2011): 98–99.

### ***Research Reports***

Examination of the unregulated trucking experience in New Jersey, U.S. Department of Transportation, Research and Special Program Administration, Office of University Research, Final Report, Contract DOT-05-70064 (1978) 187 pp. (W. B. Allen, S. L. Lonergan, and D. A. Plane).

An evaluation of alternative economic inducements for the Arizona commuter, Arizona Department of Transportation, Arizona Transportation Research Center, in cooperation with U.S. Department of Transportation, Federal Highway Administration, Final Report, FHWA/AZ 85/198-I, II, and III (1985) Volume I: Project overview and findings, 60 pp.; Volume II: Research methodology, 48 pp.; Volume III: Appendices, 38 pp. (W. C. Black, D. A. Plane, and R. A. Westbrook).

### ***University of Arizona Discussion Papers***

#### *College of Business and Public Administration Series*

81-26 A minimum information approach to the estimation of migration flows. 27 pp.

81-35 Redistricting reformulated: a spatial interaction/minimum separation objective. 13 pp.

82-03 Issues in the specification of migration forecasting models. 24 pp.



- 82-06 Migration space: a doubly-constrained gravity model picture of relative interstate separation. 18 pp.
- 82-09 Where do new Texans come from? 19 pp.
- 83-01 U.S. interstate labor force migration: an analysis of trends, net exchanges, and migration subsystems. 54 pp.
- 83-03 Modeling the asymmetry of in- and out-migration. 23 pp. (D. A. Plane, P. A. Rogerson and A. Rosen).
- Department of Geography and Regional Development Series*
- 83-6 Multiplication rates of establishments: a new estimating procedure. 17 pp. (G. F. Mulligan, M. L. Wallace, and D. A. Plane).
- 84-1 A systemic demographic efficiency analysis of U.S. interstate population exchange, 1935-80. 35 pp.
- 84-2 U.S. core-periphery net migration: a method for projecting the interregional demographic impacts. 25 pp.
- 84-5 Dynamic flow modeling with interregional dependency effects: an application to structural change in the U.S. migration system. 27 pp. (D. A. Plane and P. A. Rogerson)
- 85-2 Interstate migration to Arizona. 15 pp.
- 86-1 Urban transportation: policy alternatives. 56 pp.
- 86-10 A spatial shift-share perspective on migration systems. 29 pp.
- 87-3 A comparison of the geographic origins and personal characteristics of in-migrants to the Phoenix and Tucson metropolitan areas. 19 pp.
- 87-6 Long-term currents and short-term cycles in interregional migration: spatial shift-share perspectives. 16 pp. (D. A. Plane and S. Barua).
- 87-8 U.S. employment and migration change, 1955 to 1985. 17 pp.
- 88-1 Interstate competition for university enrollments. 19 pp.
- 88-4 Ten contestable assertions about migration research from an analytical economic geography perspective. 16 pp.
- 88-7 U.S. migration pattern response to the oil glut and recession of the early 1980s: an application of shift-share and causative matrix techniques. 37 pp. (D. A. Plane and P. A. Rogerson).
- 89-1 Age composition change and the geographical dynamics of U.S. interregional migration. 34 pp.
- 90-2 The role of changing age composition and labor supply pressure in regulating the pace of interregional migration. 33 pp. (D. A. Plane and P. A. Rogerson)
- 91-1 Requiem for the fixed-transition-probability migrant. 19 pp.
- 91-5 A demographic effectiveness field perspective on migration pattern change. 29 pp.
- 94-1 An analysis of recent migration patterns in the former Soviet Union. (B. A. Mitchneck and D. A. Plane) 29 pp.
- 95-3 The role of migration research in regional science: The role of regional science in migration research. 20 pp. (D. A. Plane and Christopher Bitter)
- 97-7 The geographic pattern of interstate income migration in the United States during the early 1990s. 31 pp.
- 98-2 Migration drift. 26 pp.

## SCHOLARLY PRESENTATIONS

### *Invited Plenary Papers at International Conferences*

Issues in the specification of migration forecasting models. International conference on "L'exode urbain / urban exodus," Université de Montréal, Montréal, April 1982.

Spatial economic / demographic modeling of interregional migration with limited data. American Statistical Association / U.S. Bureau of the Census international conference on "Forecasting regional population change and its economic determinants and consequences," Airlie, VA, May 1982 (D. A. Plane and P. A. Rogerson).

The ECESIS economic / demographic interregional model of the United States. American Statistical Association / U.S. Bureau of the Census international conference on "Forecasting regional population change and its economic determinants and consequences," Airlie, VA, May 1982 (P. M. Beaumont, A. M. Isserman, D. B. McMillen, D. A. Plane, and P. A. Rogerson).

U.S. core-periphery net migration: a method for projecting the interregional demographic impacts. U.S. National Science Foundation / Australian Department of Science joint seminar on "Regional impacts of population and structural change: Australia and the U.S.," Palm Springs, CA, June 1984.

Long-term currents and short-term cycles in interregional migration: spatial shift-share perspectives. Conference on "Planning for human settlements: U.S. and China," Tongji University, Shanghai, China, June 1987 (D. A. Plane and S. Barua).

U.S. employment and migration change, 1955 to 1985. U.S. National Science Foundation / Bulgarian Academy of Sciences joint seminar on "Regional economic development and environmental management," Morgantown, WV October 1987.

The Ten Commandments of migration research. World Congress of the Regional Science Association, Kibbutz Ramat Rachel, Israel, April 1989 (D. A. Plane and P. A. Rogerson).

A perspective from geography: the spatial choice set. Presidential panel session at the Annual Meeting of the Western Regional Science Association, Molokai, HI, February 1990.

The wax and wane of interstate migration patterns in the US in the 1980s: a demographic effectiveness field perspective. US-UK Migration Conference held as part of the International Geographical Union Population Commission Symposium, Los Angeles, August 1992.

Exploring the impacts of large-scale demographic and economic change on the system of interregional migration in the United States. Korea-U.S. Joint Seminar on Scientific Methodology for Regional Environment, Seoul, November 1992.

Fuzzy set migration regions. International Conference on Population Geography, Dundee, Scotland, September 1995.

CBD Revitalization in the Context of a U.S. Auto-Age Grid City? Drive-by Musings on Convenience Store Location in Tucson, Arizona. 11<sup>th</sup> International Symposium of the Pacific Regional Science Conference Organization Secretariat. Kumamoto, Japan, October 1999.

Age Articulation in U.S. Inter-metropolitan Migration. 12<sup>th</sup> International Symposium of the Pacific Regional Science Conference Organization, Tokyo, Japan, October 2000.

Perplexity, Complexity, Metroplexity, Microplexity. 48<sup>th</sup> North American Meetings of the Regional Science Association International, Charleston, SC, November 16, 2001. Plenary Session theme: "The Perplexing Literature: Regional Growth and Change."

Streams, Flows, Currents, Cycles, and Regimes: Propositions on the Spatiotemporal Nature of Migration Systems. 14<sup>th</sup> International Symposium of the Pacific Regional Science Conference Organization, Sapporo, Japan, October 7, 2002.

The Post-Trewartha Boom: The Rise of Demographics and Applied Population Geography. Panel Presentation at the Major Directions in Population Geography Annual Lecture on "Fifty Years since Trewartha: The Past, Present, and Future of Population Geography." Annual Meetings of the Association of American Geographers, New Orleans, March 7, 2003.

Demographic Potentials Around and Across the Pacific Rim. PRSCO (Pacific Regional Science Conference Organization) Presidential Address, delivered at the 18<sup>th</sup> Pacific Conference of the Regional Science Association International. Acapulco, Mexico, July 1-4, 2003.

The Sustainability of Demographic Progress around the World. International Seminar on Sustainable Transport and Urban & Regional Development, University of Illinois, Champaign-Urbana, November 18, 2003.

The Conditions of Coastality. Presidential Address, Annual Meeting of the Association of Pacific Coast Geographers, San Luis Obispo, CA, September 2004.

What about Aging in Regional Science? Presidential Address, North American Meetings of the Regional Science Association International, Denver, CO, November 2010.

The First Fifty Years of the Western Regional Science Association: The Making of a Brand. Plenary Opening Session, 50<sup>th</sup> Annual Meeting of the Western Regional Science Association, Monterey, CA, February 2011. (With Lay J. Gibson and Robert L. Monahan.)

The Hoover Index of Population Concentration and the Demographic Components of Change: A Paper in Memory of Andy Isserman. Research Symposium on Regional Development and Planning in Memory of Andrew M. Isserman, University of Illinois, Urbana-Champaign, November 2011. (Presented paper coauthored with Peter A. Rogerson.)

Thoughts on Proximity. Plenary 50th Anniversary Jubilee Session Presentation, 50th Anniversary Conference of the Japan Section of the RSAI, October 2012.

A 'People-Based' Perspective on Population Density. RSAI Fellows Opening Plenary Address. North American Meetings of the Regional Science Association International, Ottawa, Ontario, Canada, November 2012.

Lifetimes and Population Geographies. Lifetime Achievement Award Lecture. Annual Meetings of the Association of American Geographers, Population Specialty Group. Tampa, Florida, April 11, 2013.

People-Based Population Density and the Great Demographic Inversion. Charles M. Tiebout Plenary Lecture, Annual Meeting of the Pacific Northwest Regional Economic Conference, Spokane, WA, May 17, 2013.

Deconstructing the Age Dimension of "The Great Inversion." Andrew M. Isserman Memorial Plenary Lecture, North American Meetings of the Regional Science Association International, Atlanta, GA, November 15, 2013.

### ***Papers at Professional Meetings***

An inflow-outflow approach to forecasting interstate out-migration. Annual Meeting, Western Regional Science Association, Monterey, CA, February 1980 (A. M. Isserman and D. A. Plane).

Estimation of place-to-place migration flows from net migration totals: a minimum information principle approach. North American Meetings, Regional Science Association, Milwaukee, WI, November 1980.

A 'minimum information principle' approach to the estimation of migration flows. Annual Meetings, Association of American Geographers, Los Angeles, April 1981.

Redistricting reformulated: a spatial interaction / minimum separation objective. North American Meetings, Regional Science Association, Montréal, November 1981.

Forecasting interstate migration in the United States. North American Meetings, Regional Science Association, Montréal, November 1981 (A. M. Isserman, D. A. Plane, and P. A. Rogerson).

Migration space: a doubly-constrained gravity model picture of relative interstate separation. Annual Meetings, Association of American Geographers, San Antonio, TX, April 1982.

U.S. interstate labor force migration: an analysis of trends, net exchanges, and migration subsystems. Annual Meeting, Western Regional Science Association, Honolulu, HI, February 1983.

The asymmetry of in- and out-migration. Annual Meetings, Association of American Geographers, Denver, CO, April 1983 (D. A. Plane, P. A. Rogerson, and A. Rosen).

Modeling temporal change in flow matrices. North American Meetings, Regional Science Association, Chicago, November 1983 (P. A. Rogerson and D. A. Plane).

Computation and analysis of dynamic multipliers for the ECESIS economic-demographic model of the United States. North American Meetings, Regional Science Association, Chicago, November 1983 (P. M. Beaumont, D. B. McMillen, A. M. Isserman, D. A. Plane, and P. A. Rogerson).

A systemic demographic efficiency analysis of U.S. interstate population exchange, 1935-1980. Annual Meeting of the Western Regional Science Association, Monterey, CA, February 1983.

Multiplication rates of establishments: a new estimating procedure. Annual Meeting, Arizona-Nevada Academy of Science, Tucson, AZ, April 1984 (M. L. Wallace, G. F. Mulligan, and D. A. Plane).

Dynamic flow modeling with interregional dependency effects: an application to structural change in the U.S. migration system. North American Meetings, Regional Science Association, Denver, CO, November 1984 (D. A. Plane and P. A. Rogerson).

Economic inducements to ridesharing for the Arizona commuter. Annual Meetings, Association of American Geographers, Minneapolis, MN, May 1986 (W. C. Black and D. A. Plane).

A spatial shift-share perspective on migration systems. North American Meetings, Regional Science Association, Columbus, OH, November 1986.

Changing U.S. age distribution and interstate competition for university students. Annual Meetings, Association of American Geographers, Portland, OR, May 1987.

Long-term currents and short-term cycles in interregional migration: spatial shift-share perspectives. Pacific Regional Science Conference, Pusan, Korea, July 1987 (D. A. Plane and S. Barua).

U.S. employment and migration change, 1955 to 1985. Western Regional Science Association, Napa, CA, February 1988.

Ten contestable assertions about migration research from an analytical economic geography perspective. Workshop on analytical economic geography held in advance of Annual Meetings, Association of American Geographers, Phoenix, AZ, April 1988.

U.S. migration pattern responses to the oil glut and recession of the early 1980s: an application of shift-share and causative matrix techniques. North American Meetings, Regional Science Association, Toronto, November 1988 (D. A. Plane and P. A. Rogerson).

Changes in I-O structures: an evaluation of causative matrix methods. North American Meetings, Regional Science Association, Toronto, November 1988 (R. Jackson, P. A. Rogerson, D. A. Plane, and B. O'HUllachain).

Correlations between dynamic change in U.S. migration patterns and state sectoral employment shifts, 1955 to 1985. Workshop on analytical economic geography held in advance of Annual Meetings, Association of American Geographers, Baltimore, MD, March 1989.

Incorporating age into the geographical analysis of temporal change in migration systems. Pacific Regional Science Conference, Singapore, July 1989.

Incorporating age composition change into the analysis of temporal change in migration patterns. North American Meetings of the Regional Science Association, Santa Barbara, November 1989.

New directions in migration research: perspectives from economics, geography, and sociology. Annual Meeting of the Western Regional Science Association, Molokai, Hawaii, February, 1990 (Presidential Panel Paper: M. J. Greenwood, P. Mueser, D. A. Plane, and A. Schlottman)

Tracking the baby boom, the baby bust, and the baby boom echo: impacts of shifting age composition on U.S. geographic mobility, migration patterns, and regional development. Association of American Geographers, Annual Meetings, Toronto, April, 1990 (D. A. Plane and P. A. Rogerson)

The role of changing age composition and labor supply pressure in regulating the pace of interregional migration. Canadian Regional Science Association, Annual Meeting, Victoria, BC, May 1990 (D.A. Plane and P.A. Rogerson).

The wax and wane of U.S. migration patterns in the 1980s. (Poster presentation.) Association of American Geographers, Annual Meetings, Miami, April 1991.

A demographic effectiveness field perspective on migration pattern change. European Regional Science Congress, Lisbon, Portugal, August 1991.

Requiem for the fixed-transition-probability migrant. North American Meetings of the Regional Science Association, New Orleans, November 1991.

Macroeconomic and demographic influences on migration. North American Meetings of the Regional Science Association, Chicago, November 1992. (W. Milne and D. A. Plane)

METGRO: A third generation urban land use simulation game. North American Meetings of the Regional Science Association International, Chicago, November 1992.

An analysis of the patterns of migration in the former Soviet Union. North American Meetings of the Regional Science Association International, Houston, November 1993. (A. Granberg, B. A. Mitchneck, and D. A. Plane).

Measuring spatial focusing in a migration system. Association of American Geographers, Annual Meetings, San Francisco, April 1994. (D. A. Plane and G. F. Mulligan).

The quasi-labor market in Russian cities. European Congress of the Regional Science Association International, Groningen, The Netherlands, August 1994. (B. A. Mitchneck and D. A. Plane; presented by Plane)

The role of migration research in regional science: The role of regional science in migration research. Pacific Conference of the Regional Science Association International, Taipei, Taiwan, July 1995. (D. A. Plane and C. Bitter; presented by Plane)

The role of migration research in regional science: The role of regional science in migration research. North American Meetings of the Regional Science Association International, Cincinnati, Ohio, November 1995 (D. A. Plane and C. Bitter; presented by Plane).

Fuzzy set migration regions. 30th Anniversary Conference, Regional Research Institute, West Virginia University, Morgantown, November 1995.

Flower child of the spatial revolution. Annual Meetings of the Association of American Geographers, Charlotte, NC, April 1996.

Fuzzy set migration regions. Annual Meetings of the Association of American Geographers, Charlotte, NC, April 1996.

Neighborhood Age Composition Change. World Congress of the Regional Science Association International, Tokyo, May 1996. (P. A. Rogerson and D. A. Plane; presented by Plane).

The Demography of Neighborhoods. Annual Meeting of the Population Association of America, New Orleans, LA, April 1996. (P.A. Rogerson and D. A. Plane; presented by Rogerson).

Gaging interstate migration streams. Annual Meetings of the Association of American Geographers, Fort Worth, TX, April 1997.

Time Series Perspectives and Physical Geography Analogies in Migration Research. Migration Roundtable / State-of-the-Art Symposium, Athens, GA, May 1997.

The Geographic Pattern of Interstate Income Migration in the United States During the Early 1990s. North American Meetings of the Regional Science Association International, Buffalo, NY, November 1997.

Migration Drift. Annual Meetings of the Association of American Geographers, Boston, March 1998.

The Role of Regional Science in Migration Research. Annual Meetings of the Southern Regional Science Association, Savannah, GA, March 1998.

Drive-by Musings on Convenience Store Location. Annual Meeting of the Pacific Coast Geographers, Flagstaff, October 1998.

Mapping Migration Patterns. Annual Meetings of the Association of American Geographers, Honolulu, April 1999. (Sandra Holland and David Plane, presented by Holland.)

Methods of Mapping Migration Flow Patterns (Sandra Holland and David Plane). 16<sup>th</sup> Pacific Conference of the Regional Science Association International, Seoul, Korea, July 1999. (Sandra Holland and David Plane, presented by Plane.)

Deconcentration and Population Growth in the West Coast Megalopolis: 1969–1997. Annual Meeting of the Pacific Coast Geographers, Arcata, CA, September 2000. (C. Henrie and D. A. Plane; presented by Henrie)

Age Articulation in U.S. Inter-Metropolitan Migration Streams. North American Meetings of the Regional Science Association International, Chicago, November 2000. (D. A. Plane and F. Heins; presented by Plane).

Analyzing the Migration Literature to Assess Theoretical, Methodological, and Empirical Issues. 48<sup>th</sup> North American Meetings of the Regional Science Association International, Charleston, SC November 2001. (S. Holland, R. Florax, D. Plane; presented by Florax and Plane)

Migration across the ‘Micropolitan / Metropolitan Spectrum.’ 41<sup>st</sup> Annual Meeting of the Western Regional Science Association, Monterey, CA, February 2002. (David A. Plane, Christopher Henrie, Marc Perry; presented by Plane)

Migration across the ‘Micropolitan / Metropolitan Spectrum.’ Annual Meeting of the Southern Regional Science Association, Arlington, VA, April 2002. (David A. Plane, Christopher Henrie, Marc Perry; presented by Plane)

(Poster) The Decentralization of the Nation’s Main Street: The Development of a Bi-Coastal U.S. Population Core, 1950 to 2000. Annual Meeting of the Pacific Coast Geographers, San Bernardino, CA, September 2002. (C. Henrie and D. A. Plane).

Streams, Flows, Currents, Cycles, and Regimes: Propositions on the Spatiotemporal Nature of Migration Systems. 49<sup>th</sup> North American Meetings of the Regional Science Association International, San Juan, Puerto Rico, November 14–16, 2002.

Using Shift-Share Analysis to Understand Fertility Variation Across Italy's Regions. 49<sup>th</sup> North American Meetings of the Regional Science Association International, San Juan, Puerto Rico, November 14–16, 2002. (Rachel Franklin and David Plane; Franklin presented.)

Applying Shift-Share Analysis to Regional Fertility Change: The Case of Italy, 1952–1991. 42<sup>nd</sup> Annual Meeting of the Western Regional Science Association, Rio Rico, Arizona, February 28, 2003. (Rachel Franklin and David Plane; Franklin presented.)

Age Articulation of U.S. Inter-metropolitan Migration Flows. Annual Meetings of the Association of American Geographers, New Orleans, March 8, 2003.

An Assessment of the Intersection of Regional Science and Population Analysis Methods. 50<sup>th</sup> North American Meetings of the Regional Science Association International, Philadelphia, November 21, 2003.

The Sustainability of Demographic Progress around the World. 43<sup>rd</sup> Annual Meeting of the Western Regional Science Association, Wailea, Maui, HI, February 27, 2004.

Pandora's Box: The Potential and Peril of Migration Data from the American Community Survey. 44<sup>th</sup> Annual Meeting of the Western Regional Science Association, San Diego, CA, February 26, 2005. (Rachel Franklin and David A. Plane; Franklin presented.)

The End of the Ravenstein Era? Recent Migration Flow Patterns Down the U.S. Urban Hierarchy. Annual Meetings of the Association of American Geographers, Denver, April 7, 2005. (David A. Plane and Christopher J. Henrie; Plane presented.)

The Role of Hierarchical Proximity in Local-Scale Migration and Population Growth: Shadow versus Synergy Effects. 42<sup>nd</sup> Annual Meeting of the Japan Section of the Regional Science Association International, October 8–10, 2005, Tottori, Japan. (David A. Plane and Christopher J. Henrie; Plane presented.)

Migration Up and Down the Urban Hierarchy and Across the Life Course. 42<sup>nd</sup> Annual Meeting of the Japan Section of the Regional Science Association International, October 8–10, 2005, Tottori, Japan. (David A. Plane and Christopher J. Henrie; Plane presented.)

Migration Up and Down the Urban Hierarchy and Across the Life Course. Southern Demographic Association, Annual Meeting, Nov. 3–5, 2005. Oxford, Mississippi. (David Plane and Christopher Henrie; Plane presented).

Tracking the Stages of Life: The Role of Age and Family Status in Migration across the Micropolitan/Metropolitan Spectrum. 52<sup>nd</sup> North American Meetings of the Regional Science Association International, Las Vegas, November 12, 2005.

Modeling the Urban Hierarchical Proximity Effect on Net Migration to Rural, Micropolitan, and Small-Metropolitan Counties. Annual Meetings of the Association of American Geographers, Chicago, March 7–11, 2006 (David A. Plane, Christopher Henrie, and Jason Jurjevich; Plane presented)

Migration, Educational Attainment, and Human Capital Flows Up and Down the U.S. Urban Hierarchy. Annual Meetings of the Association of American Geographers, Chicago, March 7–11, 2006. (Beth Wilkinson, Cole T. E. Fitzpatrick, and David A Plane; Wilkinson and Fitzpatrick presented).

Ties that no longer bind? The patterns and repercussions of age-articulated migration up and down the U.S. urban hierarchy. Annual Meeting of the Southern Demographic Association, Durham, NC, November 2–4, 2006 (David A. Plane and Jason Jurjevich; Plane presented).

Ties that no longer bind? The patterns and repercussions of age-articulated migration up and down the U.S. urban hierarchy. North American Meetings of the Regional Science Science Association International, Toronto, November 16–18, 2006 (David A. Plane and Jason Jurjevich; Plane presented).

Decentralization of the Nation's Main Street: New Coastal-Proximity-Based Portrayals of Population in the United States, 1950-2000. Western Regional Science Association, 46th Annual Meeting. Newport Beach, CA. February 21–24, 2007 (Christopher J. Henrie and David A. Plane; Henrie presented).

Climate Regions and Migration Patterns by Stage of Life Course. Association of American Geographers, Annual Meeting, San Francisco, Apr 17–21, 2007. (Christopher Bitter and David A. Plane; Bitter presented).  
Voters on the Move: Assessing the Importance of Migration on State Partisan Political Realignment. Association of American Geographers, Annual Meeting, San Francisco, April 17–21, 2007. (Jason R. Jurjevich and David A. Plane; Jurjevich presented).

Trickle-Down Demographics? The Role of Mega-Metropolitan Areas in Recent U.S. Population Growth and Redistribution. 20th Pacific Conference, Regional Science Association International. Vancouver, July 2007.

Trickle-down Demographics? The Role of Mega Metropolitan Areas in Recent U.S. Population Growth and Redistribution. Southern Demographic Association, Annual Meeting, Birmingham, AL. October 11–13, 2007.

Top-Down: The Dominant Role of Mega Metropolitan Areas in U.S. Demography and Population Redistribution. Association of Pacific Coast Geographers, Annual Meeting, Long Beach, CA. Oct 17–20, 2007.

Migration, housing prices, and stage in the life-course. North American Meetings of the Regional Science Association International, Savannah, GA. November 8–11, 2007. (Christopher Bitter and David A. Plane; Bitter presented).

Fertility rates, birth parity, age-at-first-birth and migration up and down the metropolitan hierarchy. Annual Meetings, Southern Demographic Association. Greenville, South Carolina. October 30 – November 1, 2008 (Jared Powell and David A. Plane; Plane presented).

The Influences of Metropolitan Size and Race on the Timing of Parity-Specific Fertility. Annual Meeting, Association of American Geographers, Las Vegas, NV, March 26, 2009. (Jared Powell and David A. Plane; Powell presented).

The Myriad Impacts of Migration on Metropolitan Areas: A Suite of Indicators. 21st Pacific Conference of the Regional Science Association International, Gold Coast, Queensland, Australia, July 2009.

The Myriad Impacts of Migration on Metropolitan Areas: A Suite of Indicators. 5th International Conference on Population Geographies, Dartmouth College, Hanover, NH, August 2009.

Demographic Perspectives on Future Issues for the Colorado River States. Colorado River Symposium, The Water Education Foundation, Santa Fe, NM, September 2009.

Monitoring the Impacts of Migration on Metropolitan Areas Using New American Community Survey (ACS) Data. Annual Meeting of the Pacific Coast Geographers, San Diego, CA, October 2009.

Demographic Trends in the West. Western States Water Council, Fall Meeting, San Diego, CA, November 2010.

Voters on the move: The political effectiveness of migration and its effects on state partisan composition. 49<sup>th</sup> Annual Meeting of the Western Regional Science Association, Sedona, AZ, February 2010. (Jason R. Jurjevich and David A. Plane).

Exploring the Patterns Exposed by, and Some Issues Connected with, the New American Community Survey (ACS) Migration Data. Annual Meeting of the Association of American Geographers, Washington, DC, April 2010.

Tracking the Mean Center of the U.S. Population: Pushes and Pulls of the Demographic Components of Change, 1990-2009. Annual Meeting of the Southern Demographic Association, Knoxville, TN, October 2010.



- What's Special About WRSA? A Report on the Golden Anniversary Project. 50<sup>th</sup> Annual Meeting of the Western Regional Science Association, Monterey, CA, February 2011. (Rachel S. Franklin and David A. Plane).
- Tracking the Mean Center of the U.S. Population, 1990–2009: Methods for Assessing the Demographic Components of Change. 50<sup>th</sup> Annual Meeting of the Western Regional Science Association, Monterey, CA, February 2011.
- New Spatial Optimization Models for Delineating Metropolitan and Micropolitan Statistical Areas. Annual Meetings of the Association of American Geographers, Seattle, WA, April 2011. (Daoqin Tong and David A. Plane).
- The Hoover Index of Population Concentration and the Demographic Components of Change: A Paper in Memory of Andy Isserman, North American Meetings of the Regional Science Association International, Miami, FL, November 2011. (Peter A. Rogerson and David A. Plane).
- The Hoover Index of Population Concentration and the Demographic Components of Change: A Paper in Memory of Andy Isserman, 51<sup>st</sup> Annual Meeting of the Western Regional Science Association, Poipu, Kauai, HI, February 2012. (Peter A. Rogerson and David A. Plane).
- A 'People-Based' Perspective on Population Density: With Applications to Recent U.S. Metropolitan Population Distribution and Change, 'Return to the City' Residential Development, and Coastal Population Vulnerability. 50<sup>th</sup> Anniversary Meeting of the Japan Section of the Regional Science Association International, Tokyo, Japan, October 2012.
- Tract-based Perspectives on U.S. Metropolitan Population Distribution, Density and Change, 2000–2010. Annual Meeting of the Southern Demographic Association, Williamsburg, VA, October 2012.
- The Life Course Dimension of 'The Great Demographic Inversion.' Annual Meetings of the Association of American Geographers, Los Angeles, CA, April 2012.
- Delineation of Spatially Integrated Regions: An Inter-person Distance Approach. 52<sup>nd</sup> Annual Meeting of the Western Regional Science Association, Santa Barbara, CA, February 2013. Daoqin Tong, David A. Plane, and Ting Lei.
- Charles M. Tiebout Founder's Lecture: People-Based Population Density and the Great Demographic Inversion. Annual Meeting of the Pacific Northwest Economists, Spokane, WA, May 2013.
- How the West is Dense. Association of Pacific Coast Geographers Annual Meeting, Squaw Valley, CA, September 2013.
- Deconstructing the Age Dimension of "The Great Inversion." Annual Meeting of the Southern Demographic Association. Montgomery, AL, October 2013.

### ***Other Presentations***

- The 2007 Chauncey Harris Visiting Lecture* Brigham Young University, Provo, UT.  
Rounding the Life Course and Heading for Home: How Age and Intergenerational Family Ties Shape Migration Up and Down the U.S. Urban Hierarchy. November, 15, 2007.
- The 2002 Marschak Public Policy Colloquium.* University of California, Los Angeles.
- University of Arizona Department of Geography and Regional Development Colloquia*
- The geography of urban commuting fields. March 1981.
  - The geographic components of change in a migration system. December 1986.
  - Tracking the baby boom, the baby bust, and the echo generations. September 1991.
  - Fuzzy set migration regions. December 1995.
  - Migration up and down the U.S. urban hierarchy. August 2002.

*University of Arizona Regional Science / Research in Progress Workshops*

Migration space. April 1982.  
Demographic efficiency of U.S. interstate population exchange: a q-analytic view. January 1983.  
Requiem for the Net Migrant. January 1992.

*University of Arizona, Hydrology and Water Resources Seminar*

Migration and Arizona. October 1989.

*University of Arizona, Civil Engineering Seminar*

Metropolitan/Micropolitan USA: A Discussion of Demographic Patterns of Change from 2000 to 2010.  
April 2012.

*Seminar Presentations*

University of Pennsylvania (1978, 1979)  
Harvard University (1980)  
University of California-Berkeley (1980)  
University of Cincinnati (1980)  
University of California-Santa Barbara (1980)  
Indiana University (1980)  
The University of Iowa (1982)  
McMaster University (1983)  
Arizona State University (1985, 2011)  
State University of New York at Buffalo (1988)  
McMaster University (1988)  
University of Colorado-Boulder (1988)  
Pennsylvania State University (1988)  
University of Illinois (1990)  
Arizona State University (1990, 2010)  
National Center for Geography Information & Analysis, Buffalo (1994)  
State University of New York at Buffalo (1994)  
University of Georgia (1997)  
Free University, Amsterdam, The Netherlands (1998)  
Wageningen Agricultural University, The Netherlands (1998)  
San Diego State University (1998)  
University California-Santa Barbara (1999)  
U.S. Census Bureau, Population Division (2001, 2002, 2011)  
George Mason University (2002)  
U.S. Census Bureau, HHES Division (2002)  
Univ. Hokkaido, Japan (2002)  
Brown University (2011)  
University of Nevada, Las Vegas (2013)  
University of California, Santa Barbara (2014)

*Panel Presentations*

The 'cutting edge' of data-oriented research in geography and regional science. Annual Executive Board Conference, Intercollegiate Consortium for Political Science Research, Tempe, AZ, March 1985.

A report on the recent review of the Geography and Regional Science Program of the National Science Foundation. North American Meetings, Regional Science Association, Toronto, November 1988.

Arizona migration and global change. Udall Center for Public Policy Analysis, University of Arizona, Conference on global climate change, Tucson, May 1989.

Edge cities. Annual Convention, National Assembly of Local Arts Agencies, Tucson, AZ, June, 1992.

Setting a research agenda for the National Science Foundation. North American Meetings of the Regional Science Association International, Houston, TX November, 1993.

Regional science teaching curricula. Plenary panel session organized by W. Isard, North American Meetings of the Regional Science Association International, Niagara Falls, Ontario, November, 1994.

Regional science graduate education. Plenary panel session organized by Walter Isard, North American Meetings of the Regional Science Association International, Cincinnati, OH, November 1995.

Migration research workshop. Panelist. Session organized by Brigitte Waldorf. North American Meetings of the Regional Science Association International, Cincinnati, OH, November 1995.

Publishing in Regional Science Journals. Panelist. Annual Meetings of the AAG, Charlotte, NC, April 1996.

Regional science journals. Plenary panel session, North American Meetings of the Regional Science Association International, Crystal City, VA, November 1996.

Urban simulation gaming. Annual Meetings of the Association of American Geographers, Fort Worth, TX, April 1997.

Urban Gaming-Simulation. Panel presentation. Annual Meetings of the Association of American Geographers, Fort Worth, TX, April 1997.

Panelist, Workshop on Spatial Modeling Initiative, National Science Foundation, Geography & Regional Science Program, Los Angeles, May 1998.

Panelist, Regional Science Journals, 17<sup>th</sup> Pacific Conference of the RSAI, Seoul, Korea, July 1999

Panelist, 17<sup>th</sup> Pacific Conference of the Regional Science Association International, Portland, OR, July 3, 2001. Session on: "Which Future for RSAI: Regional Interests or Global Perspectives?"

Regional Science Association International. Remarks on the Occasion of the 50<sup>th</sup> Anniversary of the RSAI, Presentation Ceremony, Golden Anniversary Issue of *Papers in Regional Science*. Philadelphia, November 21, 2003.

Panelist, Session on Demography and Aging, Geographic Perspectives on Women Specialty Group, Annual Meeting of the Association of American Geographers, Washington, DC, April, 2010.

Panelist, Session on: The New Urban World: 'A Place 4 All': "Urban Voices from America," Annual Meeting of the Western Regional Science Association, Poipu, HI, February 9, 2012.

#### *Invited Participant in NSF Workshop*

Human capital research and Geographic Information Systems. Boulder, Colorado, July, 1995.  
Workshop sponsored by National Center for Geographic Information and Analysis (Buffalo Wing).

#### *Video Interview*

Human Geography: Making Sense of Planet Earth; Program 1: The Tools of Human Geography and Program 2: Population Distribution and Migration. Ambrose Video. PBS TV Series hosted by Alec Murphy (Univ. Oregon). 2012.

**GRANTS**

Université de Montréal, travel support and stipend to participate in the conference "Exode urbain / urban exodus," Montréal, 1982.

U.S. Department of Transportation / Arizona Department of Transportation, Transportation Research Center Grant, Co-Principal Investigator (with William Black and Robert Westbrook), An evaluation of alternative economic inducements to ridesharing for the Arizona commuter, 1983 (\$31,167).

North Atlantic Treaty Organization (NATO), stipend to participate in Advanced Studies Institute, "Transformations through space and time," Hanstholm, Denmark, 1985.

University of Arizona, Foreign Travel Award, for NATO Advanced Studies Institute, 1985.

Southwest Institute for Research on Women, (from U.S. Department of Education grant: "Integrating women in international studies"), "minigrant" to revise Geography 461, "Population and Resources," 1985–1986.

National Science Foundation (through grant to T. John Kim, University of Illinois), travel support to participate in 10th Pacific Regional Science Conference, Pusan, Korea, 1987.

University of Arizona, Foreign Travel Award, to participate in the conference, "Planning for human settlements," Shanghai, China, 1987.

National Science Foundation (through grant to Andrew M. Isserman, West Virginia University), travel support to participate in the "American-Bulgarian seminar on regional economic development and environmental management," Morgantown, WV, 1987.

National Science Foundation, Geography and Regional Science Program, Research Grant SES8810126, (D. A. Plane, Principal Investigator), Incorporating age into the geographical analysis of temporal change in migration systems, 1988-89 (\$36,786).

University of Arizona, Foreign Travel Award, to participate in the 3rd World Congress of the Regional Science Association, Jerusalem, Israel, 1989.

University of Arizona, Faculty of Social & Behavioral Sciences, Dean's Office, "Intellectual stimulation fund grant" for the Department of Geography & Regional Development," 1990–1993

University of Arizona, Faculty of Social & Behavioral Sciences, Dean's Office, financial support for the Editorial Office of Papers in Regional Science: The Journal of the Regional Science Association International, 1990–1991 to 1992–1993.

Regional Science Association International, financial support for the Editorial Office of Papers in Regional Science: The Journal of the Regional Science Association International, 1990–1993.

University of Arizona, Provost's Teaching Improvement Award, to rewrite an urban-simulation game for Geography 379 "Urban growth & development," 1991 (\$2,000).

National Science Foundation (through grant to John Adams, University of Minnesota), travel support to participate in the Korea-U.S. Joint Seminar, Seoul National University, Korea, 1992.

National Science Foundation, Instrumentation and Laboratory Improvement Program, for development of the Department of Geography and Regional Development's Spatial Analysis Computer Laboratory (\$44,746) 1994.

University of Arizona, Foreign Travel Award, to participate in the International Conference on Population

- Geography, Dundee, Scotland, 1995.
- Regional Science Research Corporation, annual stipend to support the Editorial Office of the Journal of Regional Science, 1995–1997
- Blackwell Publishers, stipend to support the Editorial Office of the Journal of Regional Science, 1998–2002
- U.S. Census Bureau, Visiting Research Fellowship, Population Division, 2001–2002.
- U.S. Census Bureau, Visiting Scholar (Intergovernmental Personnel Agreement), 2010–2011.
- National Science Foundation, "Collaborative Research: WSC-Category 3 - Climate and Population Change and Thresholds of Peak Ecological Water: Integrated Synthesis for Dryland Rivers" (Aug 1, 2010). Co Investigator(s): (UofA): Thomas Meixner, Francina Dominquez, Guohong Duan, Thomas Maddox, David A. Plane; (ASU): Enrique Vivoni, Juliet C. Stromberg; (Univ. N. Mexico): David Brookshire. Funding Source: Federal Government (\$1,500,864; UA portion: \$636,455) Awarding Institution: National Science Foundation: EAR Hydrologic Sciences, 2011–2013.

## SERVICE

### *Intramural Service*

#### *University and College*

- Co-organizer, University Regional Science Workshop Group, 1981–1990
- BPA College, Awards and Student Aid Committee, 1982–1983
- Honor Student Dialog, 1983
- University Committee on Planning, 1984–
- Grader, Undergraduate Writing Examination, 1985, 1986, 1988
- Grade Appeal Committee, 1985
- Department Head (Geography & Regional Development) Candidate Selection Committee, 1985
- Author, Demographic Subcommittee Report for Arizona Board of Regents Long Range Strategic Planning Project, 1985
- Speaker, University of Arizona Long Range Planning Forum, 1986
- Speaker, University of Arizona/Arizona Community Colleges Annual Articulation Meeting, 1986
- Participating "instructor," COSY conferencing system trial course, 1986
- University Committee on Graduate Studies, 1988–1990
- Faculty Executive Committee, Faculty of Social & Behavioral Sciences, 1989–1990
- Social & Behavioral Sciences Faculty Budget and Long-Range Planning Committee, 1991–1992
- University Representative and Chair or Host of Annual Meetings, Arizona Universities / Community Colleges Geography Articulation Task Force 1990–1997
- Organizer or Chair, Annual Meetings of the Arizona Geographers, 1990–1997
- Academic Program Review Committee for the University Committee on Gerontology, 1992
- Chair, Sunset Review Committee for Bureau of Applied Research in Anthropology, 1992–1993
- Social & Behavioral Sciences Faculty Strategic Planning Committee, 1992–1993
- Dean Search Committee, Faculty of Social & Behavioral Sciences, 1992–1993
- Social & Behavioral Sciences Faculty Strategic Planning Committee, 1993–1994
- Chair, SBS Zero-Based Budgeting Committee, 1993–1994
- University Committee on Faculty and Staff Salary Adjustments, 1993–1994
- President's Quality Leadership Program, 1995–1996
- "Heads-Up" Committee, 1996–97
- Executive Committee, University Interdisciplinary M.S. Degree Program in Planning, 1993–1995
- Advisory Board, University Interdisciplinary M.S. Degree Program in Planning, 1995–1998
- Chair, SBS Committee to Review the Director, Graduate Library School, 1996–1997

SBS College Grade Appeal Committee, 1997–2000  
 Humanities College Promotion and Tenure Committee, 1997–99  
 University Committee to Review the Dean, College of Social & Behavioral Sciences, 1997–1998  
 Chair, University Extended (Post-tenure) Review Board, 2000–2001  
 Committee on Graduate Studies, Graduate College Representative for Student Exams, 1996–2003  
 College of Social and Behavioral Sciences, Promotion and Tenure Committee, 1999–2000  
 SBS College Grade Appeals Committee, 1999–2000  
 University Undergraduate Council (SBS College's Representative), 1999–2001  
 Undergraduate Council Curriculum Subcommittee, 1999–2000  
 Undergraduate Council Programs Subcommittee, 2000–2001  
 SBS College Promotion and Tenure Committee, 2004–2007  
 Chair, SBS College Promotion and Tenure Committee, 2005–2006  
 SBS College, 5<sup>th</sup> Year Review Committee for Department Head J.P. Jones III, 2007–2008  
 Academic Program Review, History Department, 2011  
 University Advisory Committee on Promotion and Tenure, 2009–2012

*Department / School*

Acting Secretary of the Faculty, 1981–1986  
 Advisor for Undergraduate Regional Development Majors, 1982–1985, 1997–present  
 Department Graduate Examination Committee (Chair or Member), 1981–1983, 1985, 1988–1989  
 Graduate Teaching Assistant Selection Committee, 1982–1987  
 Faculty Search Committees, 1982, 1983, 1984, 1985, 1986  
 Began and coordinated Department Discussion Paper Series, 1983  
 Regional Planning Committee, 1984–1986  
 Advisor for Undergraduate Geography Majors, 1984–1985  
 Supervisor of Graduate Studies and Graduate Student Advisor, 1985–1987  
 Merit Pay Evaluation Committee (Member), 1987, 1998–2000, (Chair), 1989  
 Standing Committee on Curriculum (Member) 1987, Spring 1989; (Chair) 1989–1990, Chair (1998–)  
 Ad hoc Committee on Graduate Student Travel Awards (Chair), 1988  
 Ad hoc Committee on the Establishment of the Annual Mel Hecht Award, 1988  
 Ad hoc Committee on Policy for Overhead Recovery from Research Grants, 1988  
 Ad hoc Committee on Target of Opportunity Faculty Candidate Selection, 1989  
 Chair, Colloquium Committee, 1990–1991; Cochair, 1992–1993.  
 Advisor for Interdisciplinary Studies and Honors Students, 1990–1997  
 Head, 1990–1997  
 Regional Development Committee, 1991–2002  
 Ad hoc Committee on Revisions to the Graduate Program, 1992–1993  
 Student Affairs Committee (ex officio), 1992–1993  
 Graduate Committee (ex officio), 1993–1994; 1995–1996; 1996–1997; 2000–2001  
 Advisor for Undergraduate Regional Development Majors, 1997–present  
 Standing Committee on Promotion & Tenure, 1997–1998  
 Elected Member, Annual Performance Review Committee, 1999–2000  
 Chair, Curriculum Committee, 1999–2000  
 Acting Head, 2000–2001  
 Advisor, B.S. in Regional Development, 2000, 2002–present  
 Chair, Undergrad Committee, 2002–2003  
 Elected Member, Annual Performance Review Committee, 2002–2005  
 “Surrogate Head” for Sallie Marston’s Promotion Case, 1999–2000  
 Member, Graduate Committee, 2003–2004  
 Chair, Annual Faculty Performance Review Committee, 2003–2004  
 Member, Personnel Committee, 2004–2005  
 Mentor for Junior Faculty Member (Laura Huntoon) 2004–2008  
 Member, Undergraduate Committee, 2004–2007  
 Chair, Search Committee, Economic Geographer, 2005–2006  
 Cochair, Search Committee, Geovisualization/Spatial Statistics Specialist, 2006–2007  
 Member, Academic Program Review Self-Study Committee, 2006–2007

Mentor for Junior Faculty Member (Sandy Dall'erba) 2006–present  
 Mentor for Junior Faculty Member (Daoqin Tong) 2007–present  
 Member, Graduate Committee, 2007–2008.  
 Member, Annual Faculty Performance Review Committee, M.S. Program in Planning, 2007–2008  
 Member Graduate Committee, 2009–2011  
 Member and Subcommittee Chair, Promotion and Tenure Committee, 2012–2012  
 “Surrogate Director” for Connie Woodhouse Promotion Case, 2012–13  
 Member, Undergraduate Committee, 2012–present  
 Chair, Regional Development Working Group, 2012–2013  
 Member, Search Committee for Director, School of Geography & Development, 2012–2014  
 Member, Interim Director’s Ad hoc Advisory Committee, 2012–13  
 “Surrogate Director” for Christopher Scott Promotion Case, 2013–14  
 Annual Performance Review Committee, 2012–15 (Chair, 2013–14)

### *Extramural Service*

#### *Editing Activities for Scholarly Journals*

Coeditor, *Journal of Regional Science*, 1994–2002

Editor-in-Chief, *Papers in Regional Science: The Journal of the Regional Science Association International*, Term: 1990–92

Coeditor (North America), *Papers of the Regional Science Association*, 1984–89

Coeditor (with Raymond Florax) *Papers in Regional Science: The Journal of The RSAI*, Special Golden Anniversary Double Issue on “The Brightest of Dawns: The First 50 Years of Regional Science.” Published: November 2003.

Coeditor (with Sandy Dall'erba, Jaewon Lim and Daoqin Tong), special issue, New perspectives on regional development, *Région et Développement*, Vol. 33, 2011.

Board of Senior Editors, *Journal of Regional Science*, 2002–present

Editorial Board, *International Regional Science Review*, 1985–present

Consulting Editor, *Geographical Analysis*, 1987–1990; 2003–present

Editorial Board, *Papers in Regional Science*, 1993–1997; 1999–2010

Editorial Board, *Canadian Journal of Regional Science*, 1994–present

Editorial Board, *Geographic and Environmental Modelling*, 1996–2002

Associate Editor, International Book Series of the Institute of Environmental Creation, 1996–present

Editorial Board, North American, *Journal of the Institute of Environmental Creation*, 1996–present

Editorial Board, *Studies in Regional Science*, 2000–present

Editorial Board, *The Annals of Regional Science*, 2002–present

Editorial Board, *Population Research and Policy Review*, 2003–present

Editorial Board, *Région et Développement*, 2008–present

Editorial Board, *Professional Geographer*, 2008–2010

Editorial Board, *Journal of Urban Management*, 2010–present

### *Service to Scholarly Organizations*

#### Association of American Geographers

U.S. Bureau of the Census Advisory Committee, 1986–1995

Committee on the Future Supply of and Demand for Geographers, 1992–1995

Program Committee, Annual Meetings, Phoenix, AZ, 1988

Paper Session Organizer, Annual Meetings:

Minneapolis, MN, 1986

Portland, OR, 1987

Phoenix, AZ, 1988 (3 sessions, jointly with P. A. Rogerson)

Baltimore, MD, 1989

San Francisco, CA, 1994 (jointly with K. E. McHugh)

Boston, MA, 1998

Session Chair, Annual Meetings:

Portland, OR, 1987

Phoenix, AZ, 1988

Baltimore, MD, 1989

Toronto, Ont. 1990

Boston, MA, 1998

Discussant, Annual Meetings:

Detroit, 1985

Howard Roepke Memorial Annual Session, 1987

Major Directions in Population Geography, Annual Lecture, 1990, 1998

New York, 2001

Panelist, Annual Meetings:

Session on Instructional Uses of Urban Simulation-Gaming, Ft. Worth, 1997

#### Population Specialty Group, Association of American Geographers

President, 1989–1990

Vice-President, 1988–1989

Director, 1985–1988

Annual Meetings, PSG Sessions Coordinator, 1986

Originator, Annual Lecture "Major Directions in Population Geography," 1989

#### Association of Pacific Coast Geographers

Co-organizer, Annual Meetings, Tucson, 1991

Session Chair, Annual Meetings, Bellingham, WA, 1992

Vice President, 2002

President, 2003

Past President, 2004

Finance Committee, 2000, 2005–2007, 2009

Chair, Resolutions Committee (2003)

Session Chair, 2005 Annual Meeting in Phoenix

Session Chair, 2013 Annual Meeting in Squaw Valley

Organizing Committee, 2014 Annual Meeting in Tucson

#### Regional Science Association International

Councillor (ex officio), 1984–1992

Chair, Ad hoc Committee on Creation of a N. American Organizing Committee, 1987–1988

Drafter, The Constitution of the North American Regional Science Council, 1987–1989



Codrafter, Constitution of the Regional Science Association International, 1988–1989  
 Session Organizer, 14 Special Sessions on "Population, Migration, Labor Markets, and Modeling," North American Meetings, Toronto, 1988 (jointly with W. Milne, C. Amrhein, and P. Rogerson)  
 Cochair, Ad hoc Committee on revisions to Constitution and Byelaws, RSAI, 2008  
 Councillor (ex officio), North American Regional Science Council, 1989–1991  
 Councillor (voting), North American Regional Science Council, 1992–2011  
 Search Committee, Editor for Papers in Regional Science, 1991–1992  
 Protocols Committee, North American Regional Science Council, 1991–1994  
 Executive Committee, North American Regional Science Council, 1992–1993  
 Councillor, Pacific Regional Science Conference Organization, 1998–present  
 Publications Committee, Regional Science Association International, 1993–1997  
 Constitution Subcommittee, Pacific Regional Science Conference Organization, 1997–2000  
 Benjamin Stevens Graduate Fellowship Fund Committee, 2000–2004  
 Awards Subcommittee, Stevens Fellowship Fund, 2000–2004 (Chair, 2003)  
 Vice President Elect, Pacific Regional Science Conference Organization, 1999  
 Vice President, Pacific Regional Science Conference Organization, 2000–2001  
 President, Pacific Regional Science Conference Organization, 2002–2003  
 Immediate Past President, Pacific Regional Science Conference Organization, 2004–2005  
 Member, Program Committees:  
     Pacific Conference, Molokai, HI, 1985  
     North American Meetings, Toronto, 1988  
     North American Meetings, Houston, 1993  
     North American Meetings, Santa Fe, 1998  
     North American Meetings, Philadelphia, 2003  
     Pacific Conference, Vancouver, 2006  
 Co-Organizer, 40th North American Meetings of the Regional Science Association International, Houston, TX, 1993  
 Arrangements Chair, 45th North American Meetings of the Regional Science Association International, Santa Fe, NM, 1998  
 Organizer and Program Chair, 17<sup>th</sup> Pacific Conference of the Regional Science Association International, Portland, OR, 2001  
 Arrangements Chair, 56<sup>th</sup> North American Meetings of the Regional Science Association International, San Francisco, 2009  
 President, North American Regional Science Council, 2010  
 Member, Executive Committee, North American Regional Science Council, 2010  
 Member, Alonso Prize Selection Committee, 2014–  
 Discussant, European Congresses  
     Lisbon, 1991  
     Groningen, 1994  
 Discussant, Pacific Conferences:  
     Pusan, Korea, 1987  
     Singapore, 1989  
     Whistler, British Columbia, 1993  
     Taipei, 1995  
     Seoul, 1999  
 Discussant, North American Meetings:  
     Denver, 1984  
     Philadelphia, 1985  
     Columbus, 1986  
     Baltimore, 1987  
     Santa Barbara, 1989  
     New Orleans, 1991  
     Chicago, 1992  
     Cincinnati, 1995  
     Crystal City, 1996

- Buffalo, 1997
  - Chicago, 2000
  - Charleston, 2001
  - San Juan, 2002 (2 papers)
  - Philadelphia, 2003
  - Las Vegas, 2005
  - Toronto, 2006
  - Savannah, 2008
  - Discussant, World Congress
    - Tokyo, 1996
  - Discussant, International Symposium PRSCO Secretariat
    - Tokyo, 2000
  - Session Chair:
    - North American Meetings, Denver, 1984
    - Pacific Conference, Singapore, 1989
    - Pacific Conference, Taipei, 1995
    - World Congress, Tokyo, 1996
    - Pacific Conference, Seoul, 1999
    - North American Meetings, San Juan, 2002
    - North American Meetings, Philadelphia, 2003
    - North American Meetings, Toronto, 2006
- Population Association of America
- Coordinator, Association of American Geographers, Population Specialty Group jointly sponsored sessions at Annual Meetings:
    - New Orleans, 1988
    - Toronto, 1990
  - Session Organizer, Annual Meetings:
    - New Orleans, 1988
    - Toronto, 1990
- Southern Demographic Association
- Session Chair
    - Tallahassee, 2011
    - Williamsburg, 2012
- Western Regional Science Association
- Executive Secretary, 1991-2011
  - Editor, Western Regional Science Association *Newsletter*, 1986–2011
  - Webmaster, Western Regional Science Association, 1994–2011
  - Primary Organizer and Cochair, Annual Meeting Program Committees:
    - South Lake Tahoe, NV, 1992
    - Maui, HI, 1993
    - Tucson, AZ, 1994
    - San Diego, CA, 1995
    - Napa, CA, 1996
    - Kohala, HI, 1997
    - Monterey, CA, 1998
    - Ojai, CA, 1999
    - Poipu, Kauai, HI, 2000
    - Palm Springs, CA, 2001
    - Rio Rico, AZ, 2003
    - Wailea, Maui, HI, 2004
    - San Diego, CA, 2005
    - Santa Fe, NM, 2006
    - Newport Beach, CA, 2007

- Waikoloa, HI, 2008  
 Napa, CA, 2009  
 Sedona, AZ, 2010  
 Monterey, CA, 2011
- Cochair, Annual Meeting Program Committees:  
 San Diego, CA, 1985  
 Laguna Beach, CA, 1986  
 Kona, HI, 1987  
 Napa, CA, 1988  
 San Diego, CA, 1989  
 Molokai, HI, 1990  
 Monterey, CA, 1991  
 Monterey, CA, 2002  
 Poipu, HI, 2012  
 Santa Barbara, CA, 2013
- Member, Annual Meeting Program Committees:  
 Newport Beach, CA, 1981  
 Santa Barbara, CA, 1982  
 Honolulu, HI, 1983  
 Monterey, CA, 1984  
 San Diego, CA, 2014  
 Tucson, AZ, 2015
- Organizer, 2 special sessions on migration, Annual Meeting, Napa, CA, 1988
- Session Chair, Annual Meeting  
 Laguna Beach, CA, 1986  
 Tucson, AZ, 1994
- Discussant, Annual Meetings:  
 Newport Beach, CA, 1981  
 Honolulu, HI, 1983  
 San Diego, CA, 1985  
 San Diego, CA, 1989  
 Molokai, HI, 1990  
 Monterey, CA, 1991  
 South Lake Tahoe, NV, 1992  
 Tucson, AZ, 1994  
 San Diego, CA, 1995  
 Monterey, CA, 1998  
 Waikoloa, HI, 2008  
 Napa, CA, 2009  
 Sedona, AZ, 2010  
 Poipu, HI, 2012
- National Geographic Society  
 Grant proposal reviewer, 1985, 1986  
 Session Moderator and Head Judge, State of Arizona Geographic Bee, 2001, 2013
- American Statistical Association  
 ASA/U.S. Bureau of the Census/NSF Special Research Projects Program, Proposal Reviewer,  
 1983–1986, 1988
- North Atlantic Treaty Organization (NATO) Advanced Studies Institute  
 Discussant for a day-long session, Hanstholm, Denmark, 1985
- Canadian Regional Science Association  
 Discussant, Annual Meeting, Victoria, 1990
- Southern Regional Science Association  
 Discussant, Annual Meeting, Miami, 1991
- Regional Research Institute, West Virginia University  
 External Advisory Board, 2003–present

Consortium of Regional Science Research Institutes and Centers (CORRIC)  
 University of Arizona Representative, 2004–2010  
 George Mason University  
 Transportation Research Center, Advisory Board, 2008–2011  
 College of Public Policy, Advisory Board, 2008–2011

***Service to U.S. Federal Government***

U.S. Census Bureau

Proposal Reviewer for IUP/SSRC, 1991  
 Proposal Reviewer for Economic Data Center Proposals, 2002–  
 Member, Census Advisory Committee of Professional Associations (Representing the Population  
 Association of America). 2008–2009.  
 Member, Scientific Advisory Committee, U.S. Census Bureau, 2009–2011.

The National Academies

Invited Workshop Participant, National Research Council's Panel on Statistical Methods for Measuring  
 the Group Quarters Population in the American Community Survey  
 Reviewer, Final Report of the National Research Council's Panel on Statistical Methods for Measuring  
 the Group Quarters Population in the American Community Survey: *Small Populations,  
 Large Effects: Improving the Measurement of the Group Quarters Population in the  
 American Community Survey*, 2012  
 Member, Committee on National Statistics, National Academies Advisory Committee on Improving  
 the American Community Survey, 2012–2014.

National Science Foundation

Geography & Regional Science Program, Proposal Awards Panel, 1992–1994  
 Geography & Regional Science Program, Dissertation Awards Panel, 1989–1990  
 Ad hoc Committee to review the Geography & Regional Science Program, 1988  
 Methodology, Measurement and Statistics Program, Census Research Nodes Award  
 Competition, 2010  
 Methodology, Measurement and Statistics Program Panel, 2011–2013  
 Grant proposal reviewer:  
 Geography & Regional Science Program, 1983–present  
 Measurement Methods & Data Resources Program, 1983, 1985, 1998  
 Economics Program, 1989, 1991

***State, Local and Community Service***

Town of Hanover, NH: prepared historical and legal research on abandoned roads and assessed their  
 potential as a recreational network, 1974

State of Arizona, Population Technical Advisory Committee (POPTAC), 1984–1990

State of Arizona, POPTAC Subcommittee on Methodology, 1984–1990

Gila River Indian Community: prepared population projections series for housing demand estimation,  
 1984

U. S. Bureau of the Census, Tucson-area advisory committee, content and form of data release for 1990 US.  
 Census of Population and Housing, 1986

U. S. Bureau of the Census, Tucson Metropolitan Statistical Area committee on the delineation of census tracts  
 and block groups for the 1990 U.S. Census of Population and Housing, 1987

Pima Association of Governments, Population Technical Advisory Committee, 1988–1990

CFE #8 Homeowners Assoc., Director, 1988–1990

Radio guest appearance, KXCI, Tucson, AZ, "Tucson Demography," December 1996

Tanque Verde Unified School District #13, Tucson, AZ; advised on a demographic feasibility study for the construction of a new high school, 1997–1998

World Population. Presentations in two 6<sup>th</sup> grade Social Studies classes, Orange Grove Middle School, Tucson, November 1998.

National Geographic Society, State of Arizona Geography Bee, Head Judge and University of Arizona Volunteer Coordinator, Tucson Community Center, May 2001.

Oro Valley Fast Pitch Softball  
Coach, 1998–2000  
Umpire, 2002–present  
Board of Directors and Umpire-in-Chief, 2003–2007

Baja Arizona Girls Fastpitch Softball Association,  
Chair, Rules Committee, 2006, 2007  
Umpire-in-Chief, 2007

Arizona Interscholastic Association, High School and Middle School Fastpitch Softball Umpire, 2006–present