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EDUCATION:

A.B., Economics, Douglass College (Rutgers University)
M.A., Economics, Princeton University
Ph.D., Economics, Princeton University

EXPERIENCE:

Director, Water Resources Research Center, University of Arizona, 7/2004–present.
Professor/Specialist, Department of Agricultural and Resource Economics, University of Arizona, 2/2002–present.
Professor/Specialist, Department of Soil, Water and Environmental Science, University of Arizona, 11-2006-present.
Professor, Public Administration and Policy, University of Arizona (Courtesy Appointment.), 7/2005-present.
Professor, Geography & Regional Development, University of Arizona (Courtesy Appointment), 11/2006- present.
Member, Arid Lands Resource Sciences Graduate Interdisciplinary Program, 10/2006-present.
Associate Director, Water Resources Research Center, University of Arizona, 2/2002–6/2004.
President, MegEcon Consulting, 2/1987–2002.
Executive Director, Santa Cruz Valley Water District, 11/91–6/94. The District, a political subdivision of the State, was formed to facilitate water resource management efforts in Southern Arizona. It was established in June 1991 for a 30-month planning period, at the end of which it was determined that the area water interests could not agree on a governance structure for the District. Responsibilities included management of the agency’s activities, including administration, policy development and planning, project construction and operations, and representation of the agency before local, state and federal bodies.
Member, Arizona Medical Board (formerly Arizona Board of Medical Examiners), February 1999–present, Vice Chair, August 2003 – February 2005.
Co-chair, Governor’s Transportation Vision 21 Task Force, February 1999–December 2001.
Member, Governor’s Water Management Commission, June 2000–December 2001.
Chairman, Arizona State Transportation Board, 1996; Vice Chairman, 1995; Member, January 1991–January 1997.
Director, Tucson Electric Power Company, 10/89–11/91.
Chairman, Arizona Joint Select Committee on State Revenues and Expenditures, 1989. The Committee was charged with examining state taxation and spending and formulating recommendations for improving Arizona’s fiscal structure.
Visiting Associate Professor, College of Business Administration, Northern Arizona University, (halftime) 1987–1988. Responsibilities included teaching economics to MBA students, research and special projects.
Commissioner, Arizona Corporation Commission, 10/85–1/87. Appointed by Governor Bruce Babbitt. The Arizona Corporation Commission has responsibility for the regulation of public utilities, business incorporation, securities, and railroad safety.
Assistant Professor of Economics, University of Arizona, 1/79–6/87; on leave 10/85–1/87. Responsibilities included teaching advanced Econometric Theory, Probability and Statistics, Public Sector Economics, and various undergraduate economics courses and researching topics in Public Sector Economics and Applied Econometrics.
Assistant in Instruction, Princeton University, 1976–1977.
Assistant in Research, Princeton University, 1975.

OTHER SELECTED PROFESSIONAL AND VOLUNTEER ACTIVITIES:

Member, Arizona Water Quality Appeals Board, May 2002–February 2004.
Member, City of Tucson Citizens’ Blue Ribbon Charter Advisory Committee, 2001–2002.
Member, Tucson Airport Authority, 1990 – present.
Chairman, Board of Trustees, Tucson Medical Center, 1993–1995; **Member**, Board of Trustees, 1990–95; **Vice Chairman**, 1992.

Member, Board of Trustees, TMC HealthCare (formerly HealthPartners of Southern Arizona and TMCare), 1993–1999. TMC HealthCare owns and operates Tucson Medical Center.

Member of the Board, Arizona Hospital and Healthcare Association, 1995–1999.

Member of the Board, Tucson Hebrew Academy, May 1998–May 2004.

Participant, Economic Conference of President-Elect Clinton and Vice President-Elect Gore, Little Rock, December 1992.

Member of the Board, Southern Arizona Water Resources Association, 1989–1990, 1991–1995; **President**, 1994–1995.

Member, Fiscal Policy Advisory Committee, Children’s Action Alliance, 1994–1995.

Member, Transportation and Economic Development Committee, Transportation Research Board, National Research Council, 1994–1999.

Member, Project Panel, National Highway Cooperative Research Project 2519, 1998–2000.

Member, Steering Committee for October 1994 LEADERSHIP AMERICA session.

Chair, Pima County Steering Committee for Yes on Proposition 101, 1994.

Judge, Arizona 1993 Entrepreneur of the Year Awards, sponsored by Ernst & Young, Inc. Magazine and Merrill Lynch.

Member, Governor’s Regional Airport Advisory Committee, 1990–1992.

Board Member United Way of Greater Tucson, 1989–1992; Executive Committee Member and Planning Division Chair, 1989–1991.

Member, Resolution Trust Corporation Council of Arizona, 1990–1991.

Member, Honorary Advisory Board, Resources for Women, 1990–1991.

Member, Arizona Board of Regents Commission on the Status of Women, 1989–1991.

Member, Greater Tucson Economic Council RTC Study Group, 1990.

Member, 1988 Inaugural Year Class, Leadership America, a national leadership conference for women.

Participant, United States-Mexico Emerging Leaders Dialogue, American Center for International Leadership and IBAFIN, Mexico City, April 1988.

Member, National Association of Regulatory Utility Commissioners (NARUC), 1985–1987; Member, Electricity Committee, 1986–1987.

Member, Advisory Committee, Telecommunications Policy Research Conference at Airlie, Virginia, 1987, 1988.

Board Member, Committee on the Status of Women in the Economics Profession, 1984–1986.

Member, American Economic Association, 1974–1998.

Reviewer for numerous Economics journals, textbook publishers, and the National Science Foundation.

Member of the Board, Tucson Tomorrow, 1987–1989.

Member of the Board, Tucson Issues Forum, 1988.

Member, Arizona Board of Regents Student Financial Aid Task Force, 1987.

Featured speaker and panelist at various national and local conferences, meetings, radio and television programs.

PUBLISHED AND POSTED MATERIALS AND PAPERS:

“Artificial Recharge: A Multi-Purpose Water Management Tool,” *Arroyo*, Water Resources Research Center, Winter 2007 (co-author).

“Front-Row View of Federal Water Lawmaking Shows Process Works,” *Arizona Water Resource*, January-February 2007.

Featured Interview in “To Quench a Thirst,” The University of Arizona *Alumnus*, Winter 2007.

“Study of Adequacy of Tucson’s Water Supplies Has Broad Applications,” *Arizona Water Resource*, November-December 2006.

“Good Intentions, Unintended Consequences: The Central Arizona Groundwater Replenishment District,” with Christopher Avery, Carla Consoli and Robert Glennon, *Arizona Law Review*, forthcoming, 2007.

“Municipal Water Reuse in Tucson, Arizona,” in Mohammed K. Zaidi, ed., *Wastewater Reuse – Risk Assessment, Decision-Making and Environmental Security*, Springer, AK/Nato Publishing Unit, forthcoming, 2007.

“Visit Shows Israel, AZ Face Similar Issues,” *Arizona Water Resource*, September-October 2006; reprinted as “Israel, Arizona share water management issues,” *Arizona Jewish Post*, November 10, 2006.

“Restoration Projects Consider Needs of the Environment,” Essay in *Arizona Policy Choices*, Morrison Institute, Arizona State University, Forthcoming.

Water Resource Availability for the Tucson Metropolitan Area, Water Resources Research Center, July 2006.

“Time for Annual State-of-the-WRRC Report,” *Arizona Water Resource*, July-August 2006.

- “Arizona’s Recharge and Recovery Policies and Programs,” in Bonnie G. Colby and Katharine L. Jacobs, ed. *Arizona Water Policy: Management Innovations in an Urbanizing, Arid Region*, RFF Press, 2007.
- “Arizona Officials Grapple with Growth – Water Supply Dilemma,” *Arizona Water Resource*, May-June 2006.
- “Water and Growth,” Co-authored with Susanna Eden, Chapter 4, *Arizona’s Rapid Growth and Development: Natural Resources and Infrastructure*, Background Report prepared for the 88th Arizona Town Hall, April 2006.
- “Water Budget Can Be Monstrously Complicated,” *Arizona Water Resource*, March-April 2006.
- “An Introduction to the Central Arizona Groundwater Replenishment District,” co-authored with Justin Ferris and Susanna Eden, <http://www.ag.arizona.edu/AZWATER/presentations/eseries/CAGRDR.pdf>, posted January 2006.
- “US Army Corps of Engineers Plays a Lead Role in Achieving Sustainable Riparian Systems in the Southwest: the Arizona Example” (co-authored with Susanna Eden), *Environmental Newsletter*, Central Regional Environmental Office, US Army Environmental Center, Issue 4, 2005. Issued January 2006.
- “Revised AWS Rules, Key to Efforts to Reduce Groundwater Overdraft,” *Arizona Water Resource*, January-February 2006.
- “Much at Stake as Arizona Ponders Perplexing Water/Growth Dilemma,” *Arizona Water Resource*, September-October 2005.
- “The Arizona Virtual Water University is Becoming a Reality,” *Arizona Water Resource*, July-August 2005.
- “Summing Up: New Developments in State and WRRC Water Affairs,” *Arizona Water Resource*, May-June 2005.
- “Environmental Restoration in Urban Arizona,” Paper based on Presentation made at Urban Design in Arid Regions Second International Symposium, Tucson, Arizona, January 2005, posted www.cals.arizona.edu/azwater/.
- “The Importance of Water Storage and Recovery in Arizona,” *Arizona Review*, University of Arizona Department of Agricultural and Resource Economics, Vol. 3, Issue 1, Spring 2005.
- “Water and the Environment: The Role of Ecosystem Restoration,” Report on the Annual Conference of the Arizona Water Resources Research Center, *The Water Report*, Issue 16, June 15, 2005, pp. 7-14.
- Environmental Restoration Projects in Arizona: The U.S. Army Corps of Engineers’ Approach*, Report prepared for the United States Army Corps of Engineers, June 2005.
- “WRRC’s Conference Considers What it Takes to Fix an Ecosystem,” *Arizona Water Resource*, March-April 2005.
- “Water Pricing Has Potential to Promote Water Conservation,” *Arizona Water Resource*, January-February 2005.
- “Past, Present AZ Town Halls Raise Water Issues Needing Attention,” *Arizona Water Resource*, November-December 2004.
- “Don’t Negate Agricultural Water Use,” Guest Opinion, *Arizona Daily Star*, November 2, 2004.
- “State Drought Plan on Right Road Despite Some Concerns,” *Arizona Water Resource*, September-October, 2004; reprinted, *Yellow Sheet Report*, Arizona Capitol Reports, November 15, 2004.
- “Water Management in the Active Management Areas,” “Water Supply and Management Beyond the Active Management Areas,” and “Questions of Water, Growth and Policy,” Co-authored Chapters 6,7 and 11, respectively, in *Arizona’s Water Future: Challenges and Opportunities*, Background Report prepared for the 85th Arizona Town Hall, October 2004.
- “WRRC Strives to be Productive Member of the AZ Water Community,” *Arizona Water Resource*, July-August, 2004.
- “Agricultural Water Issues Featured at WRRC’s Annual Conference,” with Joe Gelt, *Arizona Water Resource*, May-June, 2004.
- “Should Yuma Desalter Operate? Varied, Complex Issues are Raised,” *Arizona Water Resource*, May-June, 2004; reprinted, *Arizona’s Water Future: Challenges and Opportunities*, Background Report prepared for the 85th Arizona Town Hall, October 2004.
- “Focus: An overview of water issues facing Arizona and the Southwest,” published interview (written and via internet radio), www.TheEbonyCactus.com, Vol. 3, No. 11, June 6, 2004.
- “Securing Sustainable Water Supplies in Arizona,” Paper prepared for IDS-Water 2004 Online Conference with over 10,000 registrants, May, 2004.
- “Arizona Agricultural Trends: A Graphical and Geographical Perspective (or let the pictures do the talking),” Background printed material for The Future of Agricultural Water Use in Arizona Conference, April 2004.
- “Obtaining, Interpreting Water Use Data is Complex Task,” *Arizona Water Resource*, March-April, 2004.
- “Arizona Public-Private Water Utility Ownership: A Changing Landscape,” *Arizona Water Resource*, January-February, 2004.
- “What Can WRRC Do to Serve Your Water Information Needs,” *Arizona Water Resource*, November-December 2003.
- “Court Tells ADWR to Set Water-Use Standards for End Users,” *Arizona Water Resource*, September-October 2003.

- “Managing to Avoid Crisis: A Look at Water Management Efforts in Rural Arizona,” with Jacqueline Moxley, *Arizona Review*, University of Arizona Department of Agricultural and Resource Economics, Fall 2003.
- “How Water Management in Tucson, Arizona Has Affected the Desert’s Landscape,” Paper based on presentation made at Urban Design in Arid Settings Symposium, Santiago, Chile, Posted, cals.arizona.edu/azwater/, October 2003.
- “We Need to Regulate Well Drilling Throughout the State—but How?” *Arizona Water Resource*, July–August, 2003.
- “Steps to Take to Resolve Water Resource Challenges at Regional Level,” *Arizona Water Resource*, May–June, 2003.
- “Fiscal 2000 Committee Report Was Accurate,” *Arizona Capitol Times*, May 2, 2003.
- “Water Bills Included on Arizona’s Legislative Agenda,” *Arizona Water Resource*, March–April 2003.
- “To Be or Not to Be a Good Collaborator on Water Issues,” *Arizona Water Resource*, January–February 2003.
- “Fiscal 2000 work stands the test of time,” *Arizona Republic*, January 29, 2003. Reprinted as “Columnist’s view of state funding twists truth,” *Tucson Citizen*, February 6, 2003.
- “Program Supports UA Water Research, Education and Outreach,” *Arizona Water Resource*, September–October 2002.
- “Interesting Times for the Arizona Water Banking Authority,” *Arizona Water Resource*, July–August 2002.
- “The Central Arizona Groundwater Replenishment District—The Need for Some Fine Tuning,” *Arizona Water Resource*, May–June 2002
- “Lawmakers Aren’t Water Wise” (with Joe Gelt), *Arizona Capitol Times*, June 7, 2002.
- “Transportation planning back to the drawing board,” *Tucson Citizen*, May 29, 2002.
- “Was the Governor’s Water Management Commission’s Conversation Comprehensive Enough?” *Arizona Water Resource*, March–April 2002.
- “It’s a good beginning to the traffic solution,” *Arizona Daily Star*, April 14, 2002.
- “Buses? Freeways? Both? Help plan state’s future” (with Martin L. Schultz), *Tucson Citizen*, April 7, 2000.
- “After 20 Years GMA [Groundwater Management Act] is Due for ‘Comprehensive Conversation,’” *Arizona Water Resource*, January–February 2000.
- “Arizona Must Recognize Limitations as it Grows,” in *Growth in Arizona: The Machine in the Garden*, Arizona Policy Choices, The Morrison Institute, Arizona State University, October 1998.
- “The Northwest Tucson Replenishment Program: A Collaborative Approach to Groundwater Recharge,” *Proceedings of the 7th Biennial Symposium on the Artificial Recharge of Groundwater*, May 1995.
- “The Benefits of State Regulation,” in *American Regulatory Federalism and Telecommunications Infrastructure*, edited by Paul Teske, Lawrence Erlbaum Associates, Inc., 1995, pp. 85–94.
- “Perspectives on Regional Water Issues,” *Proceedings of the Mohave County Unity Forum on Water Issues and Their Effect on Mohave County*, June 1995, pp. 25–30.
- “Sex Differences in the Academic Labor Market in the Affirmative Action Era,” *Economics of Education Review* 12, No.1, 1993, 21–43.
- “The Santa Cruz Valley Water District and CAP Use: Decisionmaking Under Uncertainty,” 1992 Fall Conference of the Arizona Water Resources Association.
- “On Regulation, Deregulation, and Economics,” *The Energy Journal* 10, July 1989, 181–195.
- “Municipalization of Electricity Provision: A Strategy for Bypass,” *Public Utilities Fortnightly* 123, March 2, 1989, 22–26.
- “A Comparison of Alternative Methods for Regulating Local Exchange Companies” (with Darol S. Lain), *Proceedings of the Sixth NARUC Biennial Regulatory Information Conference*, held September 1988, Vol. 3, 11–41; *Proceedings of the 1988 U S WEST Academic Seminar* (presentation transcript), held August 1988, 25–32.
- “Municipalization of Electricity: The Captive Customer’s Strategy for Bypass,” *Proceedings of the Sixth NARUC Biennial Regulatory Information Conference*, Vol. 1, 627–634.
- “Municipal Takeovers: The Captive Customers’ Strategy for Bypass,” *Proceedings, Fourth Annual Current Issues Challenging the Regulatory Process Conference*, Center for Public Utilities, New Mexico State University, held April 1988, 42–47.
- “But Is It Fair? Telecom Debate Should Not Be Linked to ‘Fairness Doctrine’,” *Communications Week*, June 27, 1988, 21.
- “The Status of Telecommunications Regulation,” *Arizona Review*, Spring, 1988, 19.
- “An Assessment of Telecommunications Regulation,” *New Mexico Business Forum* 6, Spring 1988, 21–25.

- “Comments on Robert Theobold’s ‘A Framework for Thinking About Transportation Issues,’” *Proceedings from Arizona Futures: A Symposium*, Arizona Department of Transportation, December 1987.
- “The Political Economy of Telecommunications Deregulation: The Arizona Case,” *Public Utilities Fortnightly* 119, June 25, 1987, 20–26; reprinted in *US WEST Academic Relations Quarterly Report*, December 1987.
- “Regulation and Economic Development in Arizona,” printed as “Corporation Commission Has Key Role in Arizona’s New Economy,” *Phoenix Business Journal*, June 8, 1987.
- “The Flypaper Effect Revisited: An Econometric Explanation,” *The Review of Economics and Statistics* 69, May 1987, 347–351.
- “The Econometrics of Piecewise-Linear Budget Constraints: A Monte Carlo Study,” *Journal of Business and Economic Statistics* 5, April 1987, 243–248.
- “The Deregulation Dilemma,” printed as “ACC Facing ‘Deregulation Dilemmas,’” *The Arizona Daily Star*, February 12, 1987; printed as “Telecommunications Regulation Needs a New Social Contract,” *The Arizona Republic*, March 22, 1987; reprinted in *US WEST Academic Relations Quarterly Report*, December 1987.
- “Communications Technology: Development and Economic Fallout,” *Proceedings, Ninety-eighth Annual Convention and Regulatory Symposium*, National Association of Regulatory Utility Commissioners, held November 17–20, 1986.
- “The Political Economy of Telecommunications Deregulation in Arizona,” in proceedings from the *Telecommunications Deregulation Forum*, held June 5–6, 1986, The Karl Eller Center of the University of Arizona College of Business.
- “Comparable Worth: Some Issues for Consideration,” *Contemporary Policy Issues* 4, April 1986, 40–51.
- “Estimating a Public School Expenditure Model under Binding Spending Limitations,” *Journal of Urban Economics* 19, April 1986, 277–295.
- “An Economist and a Feminist Look at Comparable Worth” (with Sheila Tobias), *Arizona Labor Market Newsletter* 10, No. 2, February 1986, 16–22.
- “A Comment on ‘Property Taxes and Firm Location: Evidence from Proposition 13,’” *Studies in State and Local Public Finance*, Harvey S. Rosen, Editor, National Bureau of Economic Research, The University of Chicago Press, 1986, 108–112.
- “Women in the Arizona Economy: A Profile,” Chapter 2 in *Women and the Arizona Economy*, Janice Monk and Alice Schlegel, Editors, document prepared for the First Arizona Women’s Town Hall, Southwest Institute for Research on Women, University of Arizona, 1986.
- “Rethinking Comparable Worth: Do All Roads Lead to Equity?” (with Sheila Tobias), *Educational Record* 66, No. 4, Fall 1985, 27–31.
- “Longitudinal Changes in Salary at a University: What Response to Equal Pay Legislation?” (with Michael R. Ransom), *American Economic Review*, Papers and Proceedings of the American Economic Association 75, May 1985, 271–274.
- “A Note on ‘Estimating School District Expenditure Functions Under Conditions of Closed-End Matching Aid’: Closed-End Matching Aid in the Context of a Two-Part Tariff,” *Journal of Urban Economics* 17, January 1985, 19–29.
- Review of The Property Tax and Local Finance: Proceedings of the Academy of Political Science, Vol. 35, no. 1, Edited by C. Lowell Harriss, *Journal of Economic Literature* 22, December 1984, 1655–1657.
- “A Model of Local Demand for Education,” *Journal of Urban Economics* 16, July 1984, 13–30.
- “Equalization of Expenditures and the Demand for Local Public Education: The Case of New Jersey,” *Public Finance Quarterly* 11, July 1983, 365–376.
- “The Determination of Public Expenditures and the Principal and Agent Relation: A Case Study,” *Public Choice* 40, 1983, 71–87.
- “An Econometric Definition of the Inflation-Unemployment Tradeoff” (with G.C. Chow). *American Economic Review* 68, June 1978, 446–453; reprinted as Chapter 7 of *Economic Analysis by Control Methods* by G.C. Chow, John Wiley and Sons, 1981.
- “The Control of Large Scale Nonlinear Econometric Systems” (with G.C. Chow), *IEEE Transactions on Automatic Control* April 1978, 344–349; reprinted as “The Control of Large-Scale Nonlinear Econometric Systems,” Chapter 4 of *Economic Analysis by Control Methods* by G.C. Chow, John Wiley and Sons, 1981.

MONOGRAPHS AND REPORTS:

Water Resource Availability for the Tucson Metropolitan Area, prepared with funding from the Metropolitan Pima Alliance, July 2006.

Projects to Enhance Arizona's Environment: An Examination of their Functions, Water Requirements and Public Benefits, with Kelly Mott Lacroix and Andrew Schwarz, prepared with funding from the United States Bureau of Reclamation, Assistance Agreement Number 04-FG-32-0270, May 2006. Posted, www.cals.arizona.edu/azwater/.

Hoover Dam Bypass Bridge Financial Feasibility Study, (subcontractor to Hagler Bailly Service, Inc.), prepared for the Arizona Department of Transportation and Nevada Department of Transportation, June 2000.

Transportation Needs Assessment and Funding Options Study (with Curtis Lueck & Associates), prepared for the Maricopa County Department of Transportation, November 1999.

Yuma Area Service Highway Funding Study (with Apogee/Hagler Bailly), prepared for the Yuma Metropolitan Planning Organization, June 1998.

An Analysis of Private Water Company Recovery of CAP Water and Conservation Program Costs, prepared for the Phoenix Active Management Area of the Arizona Department of Water Resources, June 1997.

Picacho Reservoir Multi-Use Project: Augmentation and Groundwater Recharge Analysis, prepared for the Pinal County Department of Civil Works, December 1996.

The Pinal County Water Augmentation Authority Plan: A Guide to Water Augmentation Planning for the Pinal Active Management Area (with SWCA, Inc), prepared for the Pinal County Water Augmentation Authority, October 1995.

Figgie Crime Report: An Economic Perspective, with Gerald J. Swanson and Victor Tabbush, 1985.

School Funding Formulas and Local Expenditures on Education: The Case of New Jersey, Ph.D. Dissertation, Princeton University, 1981.

RECENT CONFERENCE SPEECHES AND PRESENTATIONS:

Presentation, "The WRRC and Arizona County-level Cooperative Extension," Annual Meeting of Arizona Cooperative Extension County Directors, Rio Rico, Arizona, February 21, 2007.

Presentation, "Arizona Water Planning," Spring Ag Outlook Forum, Arizona Chapter of the American Society of Farm Managers and Rural Appraisers, Phoenix, Arizona, February 16, 2007, published on conference CD.

Presentation, "Promoting Water Resource Research Institutes Locally: The Importance of Outreach," Annual Meeting of the National Institutes for Water Resources, February 14, 2007.

Presentation, "Meeting Growing Water Demands in Central Arizona, with a Focus on Tucson," The University of Arizona Annual Forecasting Meeting, Eller College of Management, Tucson, Arizona, November 29, 2006.

Presentation, "Meeting Growing Water Demands in Central Arizona," 21st Annual Arizona Agribusiness Forum, Dept. of Agricultural and Resource Economics, Ak Chin Indian Reservation, Arizona, November 16, 2006.

Presentation, "The Colorado River & Arizona Water Management: Meeting Growing Water Demands in Central Arizona," ULI (Urban Land Institute) Annual Fall Meeting, Denver, CO, October 20, 2006.

Symposium Presentation, "Good Intentions, Unintended Consequences: The Central Arizona Groundwater Replenishment District," Water Law & Policy: A Symposium, James E. Rogers College of Law, Tucson, Arizona, October 7, 2007.

Presentations, "Water Resource Availability for the Tucson Metropolitan Area," Southern Arizona Leadership Council, Tucson, Arizona, July 19, 2006; Monthly Issues Briefing, Metropolitan Pima Alliance, Tucson, Arizona, September 15, 2006; Trinity Presbyterian Church, Tucson, Arizona, September 17, 2006; Management Committee, Pima Association of Governments, Tucson, Arizona, September 20, 2006; Economic Development Committee, Marana Chamber of Commerce, September 27, 2006; Regional Council, Pima Association of Governments, Tucson, Arizona, September 28, 2006. Southern Arizona Business Roundtable, October 3, 2006; Citizens Water Advisory Committee, Tucson, Arizona, November 1, 2006; Water Resources Research Center, Tucson, Arizona, November 8, 2006; Sahuarita Town Council, Sahuarita, Arizona, November 27, 2006.

Presentation, "Water Planning for the Tucson Region," American Water Works Association DSS Conference, Phoenix, Arizona September 18, 2006.

Seminar, Water Sustainability in Arizona: Fact or Fiction?, Department of Geography and Regional Development, The University of Arizona, Tucson, Arizona, Sept. 15, 2006.

Seminar, Groundwater Recharge as a Tool for Meeting Arizona Water Policy Objectives, Department of Soil, Water and Environmental Science, The University of Arizona, Tucson, Arizona, Sept. 11, 2006.

Interview, Water Issues related to Tucson, Growth, and the Environment, KUAT Television, Tucson, Arizona, August 7, 2006.

Press Briefing, "Water Resource Availability for the Tucson Metropolitan Area," WRRC, July 17, 2006.

Presentation, Discussion with Israel Water Commission on Arizona Water Management, Israel Water Commission, Tel Aviv, Israel, June 28, 2006.

- Presentation**, “Projects to Enhance Arizona’s Environment,” 34th Annual Meeting of the Israeli Society for the Ecology and Environmental Quality Sciences,” Haifa, Israel, June 26-27, 2006.
- Conference Chair**, Water Resources Research Center Annual Conference, “Providing Water to Arizona’s Growing Population: How Will We Meet the Obligation?” Phoenix, Arizona, June 21, 2006.
- Presentation**, “The Santa Cruz Valley Water District: A Retrospective,” Meeting of the Statewide Water Advisory Group, Arizona Department of Water Resources, Phoenix, Arizona, June 16, 2006.
- Presentation**, “Water Management in Arizona, with a Focus on the Border,” Border Issues Committee of the Arizona-Mexico Commission, Sierra Vista, Arizona, May 19, 2006.
- Testimony**, Subcommittee on Water and Power of the United States House of Representatives Resources Committee, S 214/H R 469, United States-Mexico Transboundary Aquifer Assessment Act, Washington, DC, May 10, 2006.
- Presentation** (made by Kelly Mott Lacroix), Projects to Enhance Arizona’s Environment: An Examination of their Functions, Water Requirements and Public Benefits, Annual Conference of the Arizona Riparian Council, Flagstaff, Arizona, April 28, 2006.
- Presentation**, Water Management and Renewable Water Supplies in Arizona, Delegation of Water and Soil Conservation and Plant Buffer Zone of the Ministry of Water Resources of China, Tucson, Arizona, April 19, 2006.
- Presentation**, Water Management in Arizona, Environmental Biology Class visiting from the University of Maryland, Tucson, Arizona, March 20, 2006.
- Presentation**, Water Issues in the Tucson Region, Tucson Chapter of the National Association of Retired Federal Employees, Tucson, Arizona, September 12, 2005.
- Presentation**, Water Management in Arizona: Providing the Context, City of Prescott Water Forum on Safe Yield, Prescott, Arizona, June 22, 2005.
- Paper Presentation**, “Water Sustainability in Arizona: A Multi-faceted Approach to Research, Education and Outreach,” Environmental Health Perspectives on Water Quality and Quantity: A Multi-Disciplinary Concern, 6th Annual Environmental Health Conference of the Association of Schools of Public Health, Oklahoma City, June 13, 2005. (Air travel problems prevented in-person presentation.)
- Presentation**, The University of Arizona Water Sustainability Program, Decision Center for a Desert City Briefing, Arizona State University, Tempe, Arizona, May 11, 2005.
- Presentation**, “Great Decisions: Challenges related to Water Resources Policy and Management,” Group meeting at the Tucson Jewish Community Center, April 22, 2005.
- Presentation**, “Focus on Arizona: The UA Water Sustainability Program and Update on the Water Resources Research Center,” Spring Meeting of the College of Agriculture and Life Sciences Ag 100, University of Arizona, Tucson, Arizona, April 8, 2005
- Presentation**, “Focus on Arizona: The UA Water Sustainability Program,” From River to Tap Program, College of Agriculture and Life Sciences Semi-Annual Faculty and Staff Luncheon, University of Arizona, Tucson, Arizona, April 7, 2005
- Presentation**, “A Look at Ecosystem Restoration in Arizona,” Water and the Environment: The Role of Ecosystem Restoration, Water Resources Research Center Annual Conference, Tucson, Arizona, April 6, 2005.
- Conference Chair**, Water and the Environment: The Role of Ecosystem Restoration, Water Resources Research Center Annual Conference, Tucson, Arizona, April 6, 2005.
- Presentation**, “Overview of the Arizona Water Resources Research Center,” University of Arizona and Arizona State University water information sharing meeting, Casa Grande, Arizona, March 10, 2005.
- Presentation**, “The University of Arizona Water Sustainability Program,” Annual Meeting of the National Institutes for Water Resources, Washington, DC, March 8, 2005.
- Presentation**, “Water Management and Processes for Water Education; Regional/National Concerns about Water,” Southwestern Region Conservation Education and Interpretation Conference, Tucson, Arizona, March 1, 2005.
- Presentation**, “Environmental Restoration Projects in Arizona,” 44th Annual Meeting of the Western Regional Science Association, San Diego, California, February 24, 2005. Served panel chair and paper discussant at other sessions.
- Speaker and Moderator**, Metropolitan Pima Alliance, Breakfast Meeting on Water Bonds, Tucson, Arizona, February 18, 2005.
- Presentation**, “Projects to Enhance Arizona’s Environment: An Examination of their Functions, Water Requirements and Public Benefits,” Pima Association of Governments Environmental Planning Advisory Committee Meeting, Tucson, Arizona, February 4, 2005.

- Presentation**, “Ecosystem Restoration in Urban Arizona,” Urban Design in Arid Regions Second International Symposium, Tucson, Arizona, January 23, 2005.
- Moderator**, Ecosystem Dynamics and Ecosystem Management Panel, Urban Design in Arid Regions Second International Symposium, Tucson, Arizona, January 21, 2005.
- Presentation**, “Water Management in Arizona: An Introduction,” Metropolitan Pima Alliance Board of Directors, Marana, Arizona, January 6, 2005.
- Interview**, Water and Drought, KUAT Television, Tucson, Arizona, November 8, 2004.
- Participant and Resource Consultant**, Eighty-fifth Arizona Town Hall, “Arizona’s Water Future: Challenges and Opportunities,” Grand Canyon, October 31-November 3, 2004.
- Presentation co-author**, “Unique Aspects of Valuing Groundwater Resources,” with Kathy Jacobs; **Moderator**, Water Supply and Water Quality at the University of Arizona: Research Relevant to Resolving Arizona Water Issues, Annual Symposium of the Arizona Hydrologic Society, Tucson, Arizona, September 17, 2004.
- Presentation**, “Water Management in Arizona: An Introduction,” and **Panel Organizer** for session, Growth and Water, How Arizona Communities are Addressing the Connection, Annual Conference of the League of Arizona Cities and Towns, Oro Valley, Arizona, September 1, 2004.
- Presentation**, “The Economics of Water Regulation in Arizona,” Allocating Water: Economics and the Environment Conference, Universities Council on Water Resources and The National Institutes for Water Resources, Portland, Oregon, July 2004.
- Interview**, Water Management, KUAT Public Television, Tucson, Arizona, July 21, 2004.
- Presentation**, Southwest Strategies Regional Executive Committee, Water Issues Panel, Phoenix, June 8, 2004.
- Presentation**, “Water Supply Issues in Arizona and the Southwest,” Sundt Construction Company Futures Committee, Tucson and video conference, June 3, 2004.
- Presentation**, “Lessons Learned from the Future of Agricultural Water Use in Arizona Conference”; and **Panel Moderator**, Arizona’s Water Supply Situation, AgriBusiness Council of Arizona Annual Membership Meeting, Tempe, Arizona, May 21, 2004
- Conference organizer**, The Future of Agricultural Water Use in Arizona; **Moderator**, Public Officials Panel; and Printed presentation, “Arizona Agricultural Trends: A Graphical and Geographical Perspective (or let the pictures do the talking),” Casa Grande, Arizona, April 28, 2004.
- Presentation**, “Water Management in Arizona: A Brief Introduction,” Water Sustainability Program Briefing, Phoenix, Arizona, March 23, 2004.
- Presentation and Panel Moderator**, “Long Term Impacts of the Status Quo,” Contrasting Scenarios in the Verde Watershed, League of Women Voters, Camp Verde, Arizona, March 20, 2004.
- Presentation**, “Discussion of Groundwater Management Issues,” Torreón, Coahuila, Mexico, Presentation/discussion with the Consejo Ciudadano por el Agua de la Comarca Lagunera, March 10, 2004.
- Presentation**, “Securing Sustainable Water Supplies in Arizona,” Torreón, Coahuila, Mexico, Community presentation sponsored by the Consejo Ciudadano por el Agua de la Comarca Lagunera, March 10, 2004.
- Presentation**, “Groundwater Management in the Sonoran Desert of Arizona: The Importance of Surface Supplies and Recharge,” Torreón, Coahuila, Mexico, Engalec ’04, XII Encuentro Nacional de Ganaderos Lecheros, March 11, 2004.
- Moderator**, Middle San Pedro Partnership Water Forum, Benson, Arizona, February 19, 2004.
- Presentation**, “Securing Sustainable Water Supplies in Arizona” Research Center Administrators Society 2004 Winter Meeting, Chandler, Arizona, February 2, 2004.
- Moderator**, “Impacts of the Drought on Growers in Central Arizona,” Surface Water Availability Panel, Casa Grande, Arizona, January 21, 2004.
- Presentation**, “Securing Sustainable Water Supplies in Rural Arizona: Managing to Avoid Crisis,” Lakeside, Arizona, Navopache-Electric Coop Board of Directors, January 14, 2004.
- Presentation**, “Securing Sustainable Water Supplies in Rural Arizona: Managing to Avoid Crisis,” Show Low, Arizona, Navajo County Board of Supervisors, special meeting on water, January 14, 2004.
- Participant**, Eighty-third Arizona Town Hall, “The Realities of Arizona’s Fiscal Planning Process, Grand Canyon, October, 2003.
- Moderator**, Town Halls on Tucson Transportation Ballot Initiatives. October 21, 2003: Ward 2 City Council Office. October 23, 2003: University of Arizona. Cosponsored by the League of Women Voters.
- Faculty**, Water in the West, Urban Land Institute Knowledge Seminar Series, Sessions I, II, and III. Phoenix Arizona. October 9, 2003: “Why the Groundwater Management Act.” November 13, 2003: “The Importance of Recharge.” December 4, 2003.

- Presentation**, “Securing Sustainable Water Supplies in Arizona and the Southwest,” 2003 Fall University & Agriculture Industry Consortium Meeting, Tucson, Arizona, October 21, 2003.
- Presentation**, “Public Policy and Planning for Arizona’s Water Supply,” Annual Symposium of the Arizona Hydrologic Society, Mesa, Arizona, September 18, 2003.
- Presentation**, “The Role of Private Enterprise in Sustaining Arizona’s Water Supplies,” Annual Symposium, Arizona Hydrologic Society,” Mesa, Arizona, September 18, 2003.
- Presentation**, “Water Management in Tucson, Arizona and Eastern Pima County: How Regulation, Institutions, and a Constructed Canal Have Affected the Desert’s Landscape,” Urban Designs in Arid Zones Symposium, Santiago, Chile, May 29–31, 2003.
- Conference organizer and Moderator**, “Local Approaches to Resolving Water Resource Issues,” Water Resources Research Center Annual Conference, May 12, 2003, Prescott, Arizona.
- Presentation**, “The Status and Issues of the Groundwater Management Act,” 18th Annual Agribusiness Forum: Critical Issues for Arizona Agriculture, March 7, 2003, Tucson, Arizona.
- Keynote Speaker**, Verde Watershed Citizens’ Groups Conference, January 18, 2003, Camp Verde, Arizona.
- Presentation**, Arizona State Senate Natural Resources and Transportation Committee, January 14, 2003.
- Interview**, KJZZ Public Radio, Phoenix, “Water in the Desert,” Aired November 21, 2002.
- Speaker**, “Water, Land and Policy: Social Science Assessments,” Moving Waters Culminating Conference, Flagstaff, September 27, 2002.
- Speaker**, “From Fiscal 2000 to Fiscal Year 2003,” Arizona Association of Counties Annual Conference, Mesa, June 12, 2002.
- Speaker**, “How We Manage Tucson’s Water Resources,” Young at Heart meeting group, Tucson Jewish Community Center, June 13, 2002.
- Interview**, Water and Drought, KUAT Television, Tucson, Arizona, June 4, 2002.
- Speaker**, “Economic Principles and Regulation of Groundwater,” World Bank Groundwater Study Tour, Tucson, May 1, 2002.
- Moderator**, Panel on Taxation, Arizona School Boards Association Legislative Forum, Phoenix, February 2002.
- Speaker and Panelist** on the Governor’s Transportation Vision 21 Task Force at numerous conferences and meetings, 2000–2001.
- Speaker**, University of Arizona Water Resources Research Center Annual Conference: Water Planning for the Future, November 2001.
- Moderator**, Southwest Summit on Electricity Reliability, hosted by U.S. Energy Secretary Bill Richardson, Phoenix, June 2000.
- Panelist**, Goldwater Institute Program on the Arizona Corporation Commission, Phoenix, April 2000.
- Moderator**, Transportation and Economic Development Session, 1998 Annual Meeting of the Transportation Research Board, Washington, DC, January 1998.
- Participant**, Seventy-First Arizona Town Hall, Ensuring Arizona’s Water Quantity and Quality into the 21st Century, Grand Canyon, October 1997.
- Panelist**, Conservation Alternatives Workshop, Water Conservation Alliance of Southern Arizona, Tucson, AZ, September 1997.
- Speaker**, “Arizona’s Toll Road Experience,” 1997 Annual Meeting of the Transportation Research Board, Washington, DC, January 1997.
- Panelist**, Alternative State Finance, Western Association of State Highway Transportation Officials (WASHTO), Albuquerque, New Mexico, June 1996.
- Moderator**, New Rules for the Road on the Information Superhighway, Tucson, February 1995.
- Speaker**, The 7th Biennial Symposium on the Artificial Recharge of Groundwater, Tempe, Arizona, May 1995.
- Speaker**, Arizona’s Telecommunications Future: Opportunities and Regulatory Issues forum, Tucson, February 1995.
- Speaker**, Economic and Financial Aspects of Arizona Water Conflicts seminar, sponsored by Univ. of Arizona Water Resources Resource Center, January 1995.
- Moderator**, “Our Water, Our Air: Balancing Protection and Development,” LEADERSHIP AMERICA October 1994 session, Phoenix, AZ.
- Speaker**, Joint Conference of the National Safety Council’s 20th International Forum for Traffic Records and Highway Information Systems, July 1994.
- Speaker**, Water Issues and Their Effect on Mohave County, Mohave County Community Unity Forum, Laughlin, Nevada, September 1993.
- Panelist**, National Water Resources Association Annual Conference, December 1993.

Speaker, Arizona Water Resources Association, October 1992.

Speaker, Arizona Rural Water Association, December 1992.

Speaker, University of Florida Public Utility Research Center Conference on Regulatory and Managerial Strategies for Promoting Innovation, April 1992.

Speaker, “The Role of Utility Regulators in State Economic Development Efforts,” National Association of State Utility Consumer Advocates (NASUCA) Annual Meeting, San Antonio, Texas, November 1991.

Speaker, Conference on Prospects for Corporate Relocation to Arizona, University of Arizona Udall Center for Studies in Public Policy, December 1990.

Speaker, “The Benefits of State Regulation,” Conference on Regulatory Federalism in Telecommunications: Anachronism of Laboratory?, Columbia University Center for Telecommunications and Information Studies, October 1990.

Speaker, Future Visions: Women’s Leadership Conference, Phoenix, May 1990.

Speaker, Arizona Association for Industrial Development Legislative Affairs Forum, Phoenix, January 1990.

Speaker, Fourth Annual State Telecommunications Issues Conference: Deregulation and Competition, September 1989.

Speaker, NARUC Introductory Training Program, October 1989.

Keynote Speaker, Pinal County Town Hall, April 1989.

Panelist, The Tucson Community Ethics Forum, January 1989.

Speaker, “A Comparison of Alternative Methods for Regulating Local Exchange Companies,” US WEST Academic Seminar, August, 1988, and Sixth NARUC Biennial Regulatory Information Conference, September, 1988.

Speaker, “Municipalization of Electricity Provision: The Captive Customer’s Strategy for Bypass,” Sixth NARUC Biennial Regulatory Information Conference, September 1988.

Keynote Speaker, Women in Business Conference, Tucson, April 1988.

Speaker, “From Regulation to Competition—Beyond Rhetoric: The Status of Deregulation in the Telecommunications Industry,” Western Conference of Public Service Commissioners, Durango, June 1987.

Speaker, “Communications Technology: Development and Economic Fallout,” 98th NARUC Convention, Phoenix, November 1986.

CURRENT AND RECENT GRANT FUNDING/PROJECTS:

Open Project: Hatch Project, Accession Number 0204314- Megdal-Water Storage and Recovery Programs in Arizona : Meeting Water Policy Objectives, Effective Date July 1, 2005.

United States Army Corps of Engineers 05/04 – 06/05 “Environmental Restoration, Preservation and Enhancement Projects in Arizona.”

United States Department of the Interior Bureau of Reclamation 08/04 – 12/05 “Examination of Enhancement Projects in Arizona’s Environment.” Project extended to 12/07 and additional funding granted (11/06).

United States Department of the Interior Bureau of Reclamation 09/04 – 9/06 “Arizona Water Resources.”

United States Geological Survey 08/04 – 09/07 “Water Resources Discipline Cooperative Agreement”

Metropolitan Pima Alliance 08/05 – 08/06, “Water Resource Availability for the Tucson Metropolitan Area.”

Arizona Water Institute, “Evaluation of the Arizona Department of Water Resources Management Plans for the Active Management Areas,” 11/06 – 12/07.

Natural Resource Conservation Service, “Rapid Watershed Assessments,” 9/06 – 6/07.

RECENT UNIVERSITY AND OTHER INSTRUCTIONAL OTHER ACTIVITY:

Arizona Water Policy (SWES, GRD, HWR, LAW 596B), sole instructor, Spring 2007.

Guest Lecture, “Long Range Water Planning in Central Arizona,” Surface Moisture in Arid Lands Graduate Seminar, Professor Steve Yool, November 30, 2006.

Guest Professor, “Water Pricing,” Problems in Microeconomics, AREC 504a, November 9, 2006.

Arizona Water Policy, Spring 2005 and 2006, Co-developed and co-instructed this new graduate seminar, Soil, Water and Environmental Science 596B, cross-listed by the Department of Geography and Regional Development, the Department of Hydrology and Water Resources, and the College of Law.

Mentor, NASA Space Fellow Undergraduate Student, 2005-2006.

Faculty, Temple Emanu-El Adult Education Academy short course on water, February 2007.

SELECTED HONORS, RECOGNITION AND FELLOWSHIPS:

Phi Beta Kappa, 1973
 Beta Gamma Sigma, the National Business Honorary, 1984
 Tucson YWCA Woman on the Move Award, 1989
 Honorary Recognition Award, Soroptomist International of Desert Tucson, 1990
 Named one of Valley's Most Influential Business Leaders for contributions to transportation, The Business Journal, Phoenix, October 2000.
 Outstanding Person of the Year, Tucson Chapter of Women in Transportation Seminar, 2000
 Board Leadership Award, Tucson Hebrew Academy, 2003-2004
Who's Who in America
Who's Who of American Women
Who's Who in the West
Who's Who of Emerging Leaders in America
Outstanding Young Women in America
International Who's Who of Professional and Business Women
 Princeton University Fellowship, 1974-1978
 Sloan Foundation Fellowship, 1976-1978
 N.J. Urban Economics and State and Local Finance Fellowship, 1976-1978
 Richard D. Irwin Foundation Fellowship, 1977-78

SELECTED CONSULTING CLIENTS:

US WEST Communications, Inc.:

Arizona

Colorado

New Mexico Testimony filed, Docket 8754TC, September 1987; refiled March 1989; Testimony filed, Docket 92326TC, August 1992; application withdrawn, June 4, 1993

Washington Testimony filed, Docket U882052P, May 1988

Montana Comments filed, Docket 90.8.46, October 1990; Testimony filed, December 1990, November 1991; application withdrawn April 1992

New Jersey Bell Affidavit filed, Docket TO92030358, March 1992

Southwestern Bell Telephone

Missouri Testimony filed, Docket TC8914, March 1989

Texas Testimony filed, Docket 8585, May 1989

Kansas Testimony filed, Docket 166,856U, September 1989

Oklahoma Testimony filed, Docket PUD 000837, August 1991; Application withdrawn by company, September 1991

Stentor Resources Centre, Inc. (Evidence Filed, Canadian Radio and Telecommunications Commission, Public Notice CRTC 9278, April 1993)

Bell Atlantic Mobile Systems, Inc. (Affidavit filed in FCC PR File No. 94SP2, September 1994)

Contel Service Corporation

Brooks Fiber Properties

GST Telecom

Arizona Public Service

Arizona Tax Research Association

Southern New Hampshire Water Company, Inc.

Central Telephone Company of Nevada (Testimony filed, Docket 89751, November 1989; Comments filed March 1990)

Tucson Board of Realtors

Pima County Flood Control District

Pinal County Water Augmentation Authority

Arizona Department of Water Resources

Pinal County Department of Civil Works

Maricopa County Charter Committee

Yuma Metropolitan Planning Organization

Arizona Department of Transportation

Maricopa County Department of Transportation
Town of Marana
International Boundary Water Commission
Farmers Investment Company (FICO)
Southern Union Company
Attorneys in private practice