

CURRICULUM VITAE
for
Mary Kay O'Rourke, Ph.D.

CHRONOLOGY OF EDUCATION

- Alfred University, Alfred, New York: B.A., 1972 (Geology/Biology).
University of Arizona, Tucson, Arizona: M.S., 1976 (Geosciences/Biosciences).
 Thesis: *An absolute pollen chronology of Seneca Lake, New York.*
 (Director: Allen M. Solomon, Ph.D.)
University of Arizona, Tucson, Arizona: Ph.D., 1986 (Geosciences/Biology).
 Dissertation: *The implications of atmospheric pollen rain for fossil pollen profiles in the arid Southwest.* (Directors: Vera Markgraf, Ph.D. & Owen K. Davis, Ph.D.)

CHRONOLOGY OF EMPLOYMENT

- 1972 Seis-ex Geophysical Exploration Co. (Stratigrapher), Wellsville, New York.
1975-76 Graduate Research Assistant, Department of Geosciences, The University of Arizona, Tucson, Arizona.
1977-79 Associate Faculty, Department of Earth Sciences, Pima Community College, Tucson, Arizona.
1977-81 Research Assistant II (staff), Division of Respiratory Sciences, The University of Arizona, Tucson, Arizona.
1983 Graduate Research Assistant, Division of Respiratory Sciences, The University of Arizona, Tucson, Arizona.
1986-97 Research Associate, Respiratory Sciences Center, The University of Arizona, Tucson, Arizona.
1991-00 Research Assistant Professor (NTE), Department of Medicine, The University of Arizona, Tucson, Arizona.
1997-00 Research Assistant Professor (NTE), Environmental and Occupational Health Unit, Arizona Prevention Center, The University of Arizona, Tucson, Arizona.
1996-02 Faculty Member, Epidemiology Graduate Interdisciplinary Program (Epi-IDP), Graduate College, The University of Arizona, Tucson, Arizona.
1997-present Research Scientist, Respiratory Sciences Center, The University of Arizona, Tucson, Arizona.
2000-04 Associate Professor of Public Health, (NTE) College of Public Health, The University of Arizona, Tucson, Arizona. (Co-Director of EOH Concentration of the Arizona Graduate Program in Public Health 2001-2003; Director EOH Concentration of the Arizona Graduate Program in Public Health 2003-04.
2000-present Research Associate Professor (NTE), Department of Medicine, College of Medicine, The University of Arizona, Tucson, Arizona.
2004-present Associate Professor of Public Health (TE), Division of Community, Environment and Policy, Mel and Enid Zuckerman College of Public Health, The University of Arizona, Tucson, Arizona. Director EOH Concentration/Section in Public Health 2004-2009, Environmental Health Sciences Section Chair, 2009-2015).
2017-present Professor of Public Health (TE), Department of Community, Environment, and Policy; Environmental Health Sciences Program, The University of Arizona, Tucson, Arizona.

HONORS & AWARDS

- 1968-72 Alfred University Scholarship.

- 1968-72 New York State Incentive Award.
- 1968-72 New York State Regents Scholarship.
- 1971 Pi Delta Sigma (Honorary Journalism Award).
- 1973-75 University of Arizona Graduate Tuition Scholarship.
- 1984 University of Arizona, Dept. of Geosciences, Geosciences Daze, Speaking Award.
- 1997 Arizona Allergy Society—Elected an Honorary Member in recognition of achievement.
- 2001 College of Public Health Award for Excellence in Leadership. The University of Arizona, Tucson, Arizona.
- 2002 Internship Conference Founder’s Award, AzCOPH, The University of Arizona.
- 2002 Delta Omega--Alpha Nu Chapter (Honorary Public Health Award).
- 2002 International Academy of Indoor Air Sciences (elected honor).
- 2005 International Society of Exposure Analysis Conference Recognition Award for 2005 Conference Organization (co-award with Michael Lebowitz).
- 2009 Excellence in Teaching Award for 2008 MEZCOPH, The University of Arizona.

SERVICE

Outreach—Local/State

- 1992 Consultant: Northwest Hospital— Allergy (Uve Manthei, MD).
- 1993-02 Member, The Pima Association of Governments (PAG): Environment Planning Advisory Committee/Air Quality Sub-Committee.
- 1994-95 Space Biosphere Ventures Corporation.
- 1995 Bayer Pharmaceutical: Tucson Weed Walk. in conjunction with 1995 Arizona Allergy and Asthma Society Annual Meeting in Tucson, Arizona.
- 1996 Border Ecology Project (Bisbee; June 1996-Technical support).
- 1996-97 Consultation: Tucson Unified School District #1 (Van Buskirk Elementary: D. Kramkowski).
- 1996-98 Governor's Binational Committee on Lead.
Governor's Binational Committee on Pesticide.
Arizona Department of Health Services, Nogales Asthma Study Consultation and Technical Support.
- 1998-99 American Lung Association, Health House Blueprint Committee. Tucson, Arizona.
American Lung Association, ACASA, Asthma education. Tucson, Arizona.
- 1999 ADHS, Consultation Mold Contamination-Sierra Vista Schools (September, 1999).
- 1996-04 Western Arizona Health & Environmental Council, and San Luis Rio Colorado/Yuma County Binational Council.
- 1997-00 Member, Nogales Chamber of Commerce.
- 2002-06 Arizona Department of Health Services (Will Humble)-Biomonitoring Consortium consultations.
- 2003-04 Panel Member, Arizona Department of Environmental Quality, Children’s Health and the Environment (Initial: May 30, 2003).
- 2003-04 Governor’s Binational Task Force on Children’s Health (Workshop –May 30, and presentation).
- 2012-present Member, The Pima Association of Governments (PAG): Environment Planning Advisory Committee/Air Quality Sub-Committee.
- 2015-present Member, Pima County Air Quality Hearing Board (Appointed by Board of Supervisors)

Working/advising/consulting with Community Groups and Members

- 1999 Arizona Lung Association, Technical support with a “Community Development Block Grant” application, Spring, Tucson, Arizona.

- Western Arizona Area Health Education Council, aid with Border XXI grant application, EPA Region IX, September 15-October 22, 1999.
- 1996-04 Consultation with Gila River Indian Community on Pesticide Project. Sacaton, Arizona.
- 2000 Evaluation of the soils of Cumpas, Son for Heavy Metals. Antonio Aras, Contact for the Community Group (Consultation & Laboratory Evaluation of 15 soil samples). Arizona Daily Star, Consult re: pollen and mold count purchase. June 6.
- 2000-2006 Sick Building Syndrome (Lab evaluation and consultation with the public: Mold, Pesticides).
- 2001 Arizona Department of Environmental Quality: July 24, 2001. Committee evaluating Air Quality in Yuma Co. Phoenix, Arizona.
- 2016 Consultation with Risk Management, University of Arizona, Steward Observatory Mold Issue. April –Aug 2016.

Community Presentation- Local/State/Regional

- 1991 Public Lecture: 1991 Asthma Fair sponsored by Allergy and Immunology Association of America and the Southern Arizona Allergy Association, Tucson, Arizona. October 5, 1991. (invited speaker).
- 1992 Public Lecture: Native Plant Society. *Airborne Pollen and Allergy in Tucson*. Tucson Botanical Society, Tucson, Arizona. December 9, 1992 (invited speaker).
Tucson High School Lecture: *Environmental Health* Lecture at Tucson High School. Tucson, Arizona. May 1992 (invited speaker).
Lecture & Class Project: Dietz Elementary School: *Lungs and Peak Expiratory Flow*. (Classroom of Kay Grant) Tucson, Arizona. May 1992 (invited speaker).
- 1995 Public Lecture: *Ozone Advisories. What are they and how do they affect the quality of my life?* Christmas Seal Breathing Club. American Lung Association, Tucson, Arizona. September 13, 1995 (invited speaker).
- 1996 Public Lecture: *Pollen and Plants in a Desert Environment*. Sun City Vistoso, Oro Valley, Arizona. Garden Club, May 15, 1996. (invited speaker).
Public Lecture. *Health Effects and Environmental Pollutants*. Patagonia Women's Club. Patagonia, Arizona. January 4, 1996. (invited speaker).
- 1997 Public Lecture: *Gardening using low pollen producing plants*. Tohono Chul Park. Tucson, Arizona. April 9, 1997. (invited speaker).
Tox-Rap Lecture to School Administrators (K-8). The University of Arizona. March 3, 1997. Tucson, Arizona.
- 1999 American Lung Association Training Workshop: *Indoor Air Quality*, Tucson, Arizona. April 12, 1999.
American Lung Association Training Workshop: *Indoor Air Quality*, Tucson, Arizona. June 26, 1999.
Public Lecture: *Pesticide Exposure in Arizona Homes*. Indoor Air Quality Council, Phoenix, Arizona. March 9, 1999.
Public Lecture: *Indoor air and construction policies*. Yavapi Community College, Civano, American Lung Association. Tucson, Arizona. June 26, 1999.
Public Lecture: *How Outdoor Pesticide Applications Impact Indoor Air Quality*, Intertribal Council of Arizona, Phoenix, Arizona. August 4, 1999.
Public Lecture: *The Role of Education and Limiting Pesticide Exposure for Children*. Sonora/Yuma County Binational Health and Environment Council. Yuma, Arizona. October 28, 1999.
- 2000 Public Lecture: *Children's Exposure to Pesticides in Yuma County*. Border Health: Information for Action. II. Rural Health Conference. Yuma, Arizona. January 28, 2000.
Public Lecture: *Quality Assurance and Data Entry*. Intertribal Council of Arizona. Phoenix, Arizona. February 29, 2000.
Public Lecture: *Air Quality—Allergies & Asthma*. Saddlebrook "Health Night Out." Oro

- Valley, Arizona. February 28th, 2000.
- Public Lecture: *The Role of Education and Limiting Pesticide Exposure for Children*. Arizona State Museum workshop on Pesticides and Artifacts. Tucson, Arizona. March 17, 2000.
- KUAT Radio Interview: *Asthma, Allergies and Plants*. Tucson, Arizona. April 10, 2000.
- Public Lecture: *Report on Children's Pesticide Program in Yuma Co*. San Luis Rio Colorado, Sonora/Yuma County, Binational Health and Environ. Council. San Luis R.C., September 27, Yuma, Arizona (invited participant).
- 2001 Public Lecture: *Report on Children's Pesticide Program in Yuma Co*. San Luis Rio Colorado, Sonora/Yuma County, Binational Health and Environment Council. San Luis R.C., January 31, 2001. (invited participant)
- KVOA TV Interview: *Air Quality in Pima County*. Tucson, Arizona. February 1, 2001.
- Tucson Weekly Interview: Molly McKassen Interview. Pima County Air Quality. Tucson, Arizona. April 4, & April 18, 2001.
- Public Lecture: *Multimedia Metals Exposure along the US Mexico Border in Arizona*. Border Health: Information for Action. III Conference. Nogales, Sonora. May 4, 2001.
- Public Lecture: *Report on Children's Pesticide Program in Yuma Co in conjunction with the CDC Program in Yuma County*. San Luis Rio Colorado, Sonora/Yuma County, Binational Health and Environ. Council. San Luis R.C., July 25, 2001. (invited participant).
- Phoenix Republic Newspaper Interview: *Killer Mold: Stachybotrys chartarum*. June 15, 2001.
- Public Lecture: *Arsenic Exposure through Water in Arizona*. Arizona Newspaper Association Annual Meeting. Phoenix, Arizona. September 28, 2001.
- Professional Training Sessions: Western Arizona Area Health Education Center and Puentes de Armistad. Yuma, Arizona. October 1-3, 2001. (Human subjects & Equipment Operation).
- Public Lecture: *Allergy and Allergen Distribution*. Kiwanis, Tucson, Arizona. December 18, 2001.
- 2002 Public Lecture: *Indoor Air Quality and Housing Stock*. Middle School Teacher Workshop. Southwest Environmental Health Sciences Center. Tucson, Arizona. June 4, 2002.
- Public Lecture: *Pesticide Exposure in Yuma Co*. Information for Action Now. Rio Rico, Arizona. WAHEC Training Session. *Rights of Human Subjects and Environmental Sampling*. October 7-8, 2002. Yuma, Arizona.
- Public Lecture: *Report on Children's Pesticide Program in Yuma Co*. San Luis Rio Colorado, Sonora/Yuma County, Binational Health and Environmental Council Yuma, Arizona. October 28, 2002. (invited participant)
- 2003 Epidemiology Forum Participant: *Children's Exposure to Pesticide*. Tucson, Arizona. March 7, 2003.
- Smithsonian Interview by Adel Conover regarding *Pollen and Allergies*. Tucson, Arizona. June 6, 2003.
- EPA Region IX. ORD Science Fair for Region IX. Synthesis Presentation of 4 funded projects. *Children's Exposure to Pesticide along the US-Mexico Border*. October 8-9, 2003. San Francisco, California. (invited presentation)
- Public Lecture: *The impact of children's activities on exposure*. Yuma Department of Health, Sonora/Yuma County, Binational Health and Environ. Council Yuma, AZ October 22, 2003. (invited presentation)
- 2004 Public Lecture: *Arsenic Exposure and Mining Communities*. Arizona Cancer Center Community, Tucson, Arizona. April 22, 2004. Workshop by Katherine Coe.
- Public Lecture: Report to tribal Environment Committee *Respiratory health, pesticide and Pollutants*. Gila River Indian Community. Sacaton, Arizona. May, 2004.
- 2007 Guest Lecture: *Indoor Air Quality*, for School Nurse Continuing Education program sponsored by Pima Department of Environmental Quality. Tucson, Arizona. December 8, 2007.
- 2008 Lecture Segment: Children's Activity. Dial Corporation outreach to CEO Brad Casper. October 23, 2008. The University of Arizona, Tucson, Arizona.
- 2009 Guest Lecture: Valley Fever. Quail Creek; Partners in Public Health outreach. Green Valley, AZ.

- February 9, 2009.
 Guest Lecture: Allergy, Desert Plants and Climate Change. Quail Creek; Partners in Public Health outreach. Green Valley, AZ. February 9, 2009.
 Guest Lecturer (2 separate classes): Arsenic: The 5 Ws: who, what, why, where & when (how and so what). Flowing Wells High School. Tucson, Arizona. November 23, 2009.
- 2010 Poster. Presidents Club. Exposure of Children to Pesticide in Yuma County, Arizona. Tucson, Arizona. January 12, 2010.
 Guest Lecture: Desert Landscape and Allergy. Splendido, Oro Valley, Arizona. MEZCOPH Health and Wellness Series. February, 2010.
 Guest Lecture: Allergy, Desert Plants and Climate Change. Saddlebrook. Arizona. MEZCOPH Health and Wellness Lecture Series. April, 2010.
 Poster: NIOSH Training Grant. AHSC Frontiers in Biomedical Research. Tucson, Arizona. October 20, 2010.
- 2011 Public Lecture: Arsenic, The 5 W's. Agricultural Extension, Prescott, Arizona. May 24, 2011.
 2012 Guest Lecture: Fungi: Lecture and Lab. Flowing Wells Jr. High School. 2 Classes March 19, 2012.
 2013 Guest Lecture: Indoor Air Quality and Health: a Tribal Workshop by NAU. March 12, 2013. Tucson.
- 2016 Community Advisory Board Presentations: January 13, July 19, Sept 13 & Nov 1, 2016, Kykotsmovi, AZ
 2016 Capacity Building: Organized Hopi training for Spirometry, FeNO, Body Measurements and Dietary Recall, October 20-21, Tucson, Arizona,
 2016 Public Display & Talk: Hopi Environmental Health Fair. November 2, 2016, Kykotsmovi, AZ.

Citizenship—Intramural

Divisional/Center Assignments and Committees

- 1999-00 Member, APC/COPH Interdisciplinary Programs Committee.
 1999-00 Member, APC/COPH Research Cores Committee.
 1999-02 Member, Student Affairs Committee, AzGPPH/COPH.
 1998-05 Member, APC/AzGPPH/COPH/MEZCOPH MPH Committee.
 2000-03 Member, EOH/MPH Admissions Committee.
 2002-03 Member, AzGPPH/MPH Admissions Committee.
 2005-06 Member, Student Affairs Committee, MEZCOPH.
 2006-present Section Chair: Admissions, Education Committee, EOH/EHS, CEP, MEZCOPH.
 2013 ESRAC Post Doc Search (Jul-Nov)
 2013-present Co-director: Environment, Exposure Science and Risk Assessment Center (ESRAC)

Departmental Committees (newly formed in 2015; previously College Committees)

- 2011-present Advisor, Student Environmental Health Sciences Association (SEHSA)
 2013-present ABET Accreditation Coordinator
 2015-2016 Community, Environment and Policy Department P&T Committee

College Committees

- 1998-02 Director, AzCOPH Data Center.
 1999-05 Member, AzCOPH Computer Committee & Data Core.
 2000-04 Member, AzCOPH/ Promotion & Tenure Committee.

2001-02	Chair, Section IX AzCOPH Accreditation Committee.
2002-04	Chair, AzCOPH Millennium Report & Diversity Committees.
2003	Contributor, Faculty Advising Workshop, April 25, 2003.
2003-04	Chair, CPH Search Committee for Assistant/Associate Professor EOH.
2004-05	Chair, CPH Search Committee for Assistant/Associate Professor EOH.
2005-06	Chair, CPH Search Committee for Assistant Professor EOH.
2006-08	Chair, Education/Curriculum Committee.
2009	Division Director Review Committee—Five-year Review
2013-2014	Chair, MEZCOPH Search Committee for Assistant Professor EHS.
2014	MPH Competency Revision Committee
2006-2015	Section Chair, Education Committee, EOH/EHS, CEP, MEZCOPH
2008-2015	MEZCOPH Scholarship Committee
2012-2015	Advisor, MEZCOPH Graduate Poster Forum
2013-2015	MEZCOPH Promotion and Tenure Committee
2015-16	Chair, MEZCOPH Search Committee for Assistant Professor, EHS/CEP.
2014-present	University of Dammam, Saudi Arabia, Year abroad in Occupational Medicine, Program development with Phil Harber through the Global Health Initiative in PH.
2016-present	MEZCOPH Promotion and Tenure Committee, member

Other University Programs

1986-present	Arizona Respiratory Center (and its precursors).
1999-02	Interviewer, COM Medical School Applicants, The University of Arizona.
2001-2008	Institute for the Study of the Planet Earth (ISPE), The University of Arizona, Participant 5-year review.
2006-07	ISPE: Graduate Student Travel Grant Award Review (Spring 2006, Spring 2007).
2001-08	Interdisciplinary Study of the Planet Earth (Member).
2002-05	The Valley Fever Center for Excellence.
2006-08	UA Drachman Institute HUD grant; Advise and participate with 3% annual salary match commitment.
2013	MEZCOPH Representative to Ologie: Campus Marketing Campaign meeting
2008-2014	Institute of the Environment (Member) & Faculty Advisory Committee Member (2011-2014).
2012-2014	Interprofessional Educational Program: Pan Flu Exercise volunteer.
2008-present	Southwest Environmental Health Sciences Center (member).
2014-present	One Health Program Formation Committee

University Committees

2003	Member, Search Committee, Vice Provost for Academic Affairs.
2003	Member, Search Committee, Vice Provost for Instruction.
2005-06	Member, Dean Five-year Review Committee.
2006-07	Member, MEZCOPH Dean Search Committee.
2006-07	Member, External Review Committee for Geography Academic Program Review.
2009-2013	UA Advance Leadership Workgroup 1. NSF Transition program, Vice President for Research Dr. Leslie Tolbert.
2013-2016	Member, Undergraduate Council (UGC) and Policy Sub-committee.

Citizenship—Extramural

Professional Memberships, Elected Offices and Committees

American Association of Stratigraphic Palynologists
AmQuA (American Quaternary Association)
Arizona Allergy and Asthma Society (elected Honorary Member)
Arizona Public Health Association
International Association for Aerobiology (past Secretary General; past Councilor)
International Society of Exposure Science (formerly ISEA-Analysis) (past Councilor)
2005-Conference Organizer, Tucson AZ; 2003-present Conference Committee Oversight for
Annual Meetings; Technical Organizing Committee 2015.
International Society of Indoor Air Quality and Climate
Pan-American Aerobiology Association (past Secretary Treasurer)
(past Sessions Chaired 1991-95; Workshop 1993)
Paleontological Research Institution

Workshops Conducted

- 2000 Collecting Dietary Information. The Fourth International Conference on Dietary method Assessment. Tucson, Arizona, September 17-20, 2000.
- 2001 Exposure Assessment and Epidemiology. International Society of Exposure Analysis. Charleston, South Carolina. November 4, 2001. (Co-convener)
- 2002 Epidemiology and Exposure Assessment. Pan American Health Organization. Tucson, Arizona. October 16-17, 2002. (Co-Convener).

Grant Reviews

- 2001 Member-Review Panel: NIEHS, March, Research Triangle Park, North Carolina.
- 2003 Member-Review Panel: Centers for Disease Control, July 28-29, 2003. Atlanta, Georgia.
Member-Review Panel: Environmental Protection Agency, Washington, D.C. August 14, 2003.
Member-Review Panel: NIH, Teleconference Tucson: Bethesda MD. November 3, 2003.
- 2005 Grant Review: Southwest Consortium for Environmental Research & Policy. (Funded by NIEHS and EPA).
- 2008 Member-Review Panel: NIH, Teleconference to RTP from Tucson, March 5, 2008.
- 2009 Advance: Grant Reviews (internal UA ~10 applicants).
- 2010 Southwest Environmental Health Sciences Center (2 faculty grant reviews).
Foreign Language and Area Studies Fellowship Program. Review of 30 students
proposal/applications (university-wide)
- 2011 Member-Review Panel: NIEHS, Teleconference Research Triangle Park, North Carolina. from Tucson, June 15, 2011.
- 2013 Member-Review Panel: Environmental Protection Agency, Washington, D.C. December 3-4, 2013.
- 2014 Member-Review Panel: Environmental Protection Agency, Washington, D.C. April 22-23, 2014.
- 2016 Member-Review Panel: National Institute of Health, Research Triangle Park, May 10, 2016.

National Panels

- 1992 Institute of Medicine: Indoor Air Consultation Presentation.
- 1992-95 Center for Indoor Air Research Annual Grant Review Panels.
- 1995 US EPA: Border Liaison Office in San Diego. (Nogales Waste Water Facility: Sept. 1995).
- 1999 NIEHS Workshop: "The Role of Human Exposure Assessment in the Prevention

- of Environmental Disease,” Rockville, MD, Sept 21-24, 1999. (invited participant)
- 2000 US EPA: (Star Program) “Pesticide Exposure in Children,” Seattle, Washington. July 19-20, 2000. (invited participant)
- US EPA: “Technical Workshop on Issues Associated with Considering Developmental Changes in Behavior and anatomy when assessing Exposure to Children,” Washington, DC, July 26-27, 2001. (invited panel member)
- 2001 Good Neighbor Environmental Board. (Binational Committee Advisory to the President and Congress) March 21, 2001. (invited speaker)
- US EPA: Example Exposure Scenarios. July 2, 2001. (peer review panel member)
- US EPA: “Lessons Learned from the National Human Exposure Assessment Survey.” Research Triangle Park, North Carolina. August 14, 2001. (invited speaker and panel member)
- National Cancer Institute: GIS peer panel member. June 18-20, 2001. Baltimore. Maryland.
- 2002 EPA: Fat intake Analysis. July 2, 2002. (peer review panel member)
- EPA Scientific Review Board: Metals Panel Aug 8, 15, 29 Phone Conference; Sept 10-12, Washington D.C. 2002.
- 2002 National Report of Human Exposure to Environmental Chemicals. Review for CDC. Site: [Http://www.cdc.gov/nceh/dis/report/](http://www.cdc.gov/nceh/dis/report/).
- National Children’s Study: Exposure Panel Member. Meeting: Baltimore Dec 16-18 Monthly Conference Calls, White Paper Production-Bioaerosol section.
- 2003 CDC: Migrant Health Workshop, Stone Mountain Georgia, February 24-26, 2003. (invited speaker and panel member)
- American Chemistry Council, June, 2003. Washington D.C. (invited panel member).
- 2004 ASPH-Workshop on Public Health treatment of Risk Assessment. June, 2004. Minneapolis, Minnesota.
- ASPH-EOH Core Competencies National Panel, (panel met by phone six times; Washington DC).
- 2005 NICHD Workshop examining Minority Children’s Health, Rockville, MD.
- EPA Workshop: Examining Children’s Health data in preparation of the National Children’s Study. Teleconference; Washington, DC.
- 2010 NIEHS, Conference Reviews. Teleconference. RTP, NC. June 2010.
- 2012 NIEHS, Center Reviews, Teleconference. RTP, NC. August 22, 2012.
- 2014 NIEHS, Workshop examining “Health Effects and Mitigation of Arsenic: Current Research Efforts and Future Directions.” March 3-4, 2014, RTP, NC (Webcast)

National/International Citizenship

- 1989-93 Secretary-Treasurer: The Pan-American Aerobiology Association and serve on the Executive Committee.
- 1990-94 Secretary General: The International Association of Aerobiology: Member Executive Committee & Governing Council.
- 1990-94 Member: Scientific Advisory Committee for the 1994 International Association of Aerobiology in Bangalore, India.
- 1994 Governing Council: International Association of Aerobiology.
Organizing Committee: 6th International Congress on Aerobiology. Perugia, Italy 31 August - 5 September 1998.
- 1995 Organizing Committee Member: Pan American Aerobiology Association Conference. June 1995. Tulsa, Oklahoma.
- 1996 Aerobiology Symposium Organizer: Ninth International Palynological Congress, June 23-38, Houston, Texas. 1996.
- 1997-98 Scientific Advisory Board of the European Expoplis: Air Pollution Exposure/Distributions of Adult Urban Populations in Europe, Kuopio, Finland.
- 1999 Chair: PAAA Annual Conference. Tucson, Arizona.

- 1999-01 Scientific Advisory Board: The Center for Children's Environmental Health Research/ CHAMACOS, University of California, Berkeley, California.
- 2003-06 Co-Chair: International Society of Exposure Analysis 2005 Annual Meeting.
- 2008-09 Advisory Committee 2009 ISES: Annual meeting in Minneapolis, Minnesota. November 1-5, 2009.
- 2003-11 External Peer Review: Packets for promotion. (11 Total).
- 2010-11 International Society for Indoor Air Quality (Austin TX, Indoor Air 2011) Reviewer 10 abstracts and Manuscripts.
- 2011 Nominated President: International Society of Exposure Science. Dec. 2011.
- 2013-14 International Society for Indoor Air Quality (Hong Kong, Indoor Air 2014) Reviewer 10 abstracts and Manuscripts.

Editorial Responsibilities

- 1989-95 Editorial Advisory Board: *Aerobiologia*
- 1992-98 Board of Referees: *Grana*
- 1999-01 Publication Committee: Journal of Exposure Analysis and Environmental Epidemiology.
- 2008-present Advisory Board: University of Arizona Book Series. *The Edge*. Tucson, Arizona.
- 2015-present Associate Editor: *Human and Ecological Risk Assessment*. Philadelphia, PA.

Referee for other Journals:

Aerosol Science and Technology, Environmental Entomology, Environmental Health Perspectives, Journal of Exposure Sciences (formerly Analysis) and Environmental Epidemiology (JEAE/JESEE), Journal of Toxicology and Environmental Health, International Journal of Environmental Research and Public Health, Indoor Air, Grana, Inhalation Toxicology, Journal of Bee Research, Quaternary Research, Particle Science Technology, Pharmaceutical Research, Symposium Volume: Melissopalynology,

Reports Submitted:

O'Rourke, MK. Environmental Exposure Science and Risk Assessment Center (ESRAC). WEES Progress Report 2013-2014. Submitted May , 2014.

O'Rourke, MK. ABET Accreditation Critique Response and submission of Continuous Improvement Plan. Submitted Feb 15, 2014.

O'Rourke, MK. ABET Amended response. Submission of Continuous Improvement implementation and report. Submitted 5-19-2014. Program Accredited August, 2014.

O'Rourke, MK. ABET "Annual Program Review to Ensure Continuous Improvement 2015." Submitted 6-28-2015.

O'Rourke, MK. ABET "Annual Program Review to Ensure Continuous Improvement 2016." Submitted 2-6-2017.

PUBLICATIONS/CREATIVE ACTIVITY

Chapters in Scholarly Books (State of the Field vs. Original Research*)

- 1982 *Buchmann, S.L., **M.K. O'Rourke**, and C.W. Shipman. 1982. Aerobiology of pollen abundance and dispersal in a native stand of Jojoba (*Simmondsia chinensis*) in Arizona. in Elias-Cesnik, A. (ed.) *Jojoba and its uses through 1982*. Tucson: Office of Arid Lands pp. 79-91.
- 1989 ***O'Rourke, M.K.**, J.J. Quackenboss, and M.D. Lebowitz 1989. Respiratory disease response in sensitive individuals to indoor and outdoor pollen exposure in Tucson, Az. in: Quackenboss, J.J. (ed.) *Responses of Sensitive Individuals to Biological and Non-Biological Agents*. Pittsburgh.
- 1992 ***O'Rourke, M.K.** 1992. Exposure assessment of indoor aeroallergens. Manuscript contribution prepared for National Academy of Sciences, Institute of Medicine for all or partial inclusion in an Indoor Aeroallergen Report. February, 1992. (Excerpts in final IOM Report).
- 1995 ***O'Rourke, M.K.** and M.D. Lebowitz. 1995. Environmental allergens in the development of chronic and obstructive lung diseases. in: E. Cordasco, S.L. Demeter, and C. Zenz (eds.) *Environmental Respiratory Disease*. Van Nostrand Reinhold 295-335.
- 1996 **O'Rourke, M.K.** 1996. Medical Palynology. in: Jansonius, J. & D.C. McGregor (eds.) *Palynology: Principals and Applications*. 3:945-955.
- ***O'Rourke, M.K.**, C.L. Moore and L.G. Arlian. 1996. Prevalence of house dust mites from homes in the Sonoran Desert, Tucson, Arizona. in: Mulienberg, M. & H. Burge (eds.) *Aerobiology*, Lewis Publishers, Chelsea p 67-80.
- 2000 **O'Rourke, M.K.** and Lebowitz, M.D. 2000. Indoor bioaerosol contaminants. in: M. Lippmann, Ed. *Environmental Toxicants: Human Exposures and their Health Effects*. pp. 449-480.
- 2001 **O'Rourke, M.K.** Principles of Epidemiology. 2001. in. J. Sullivan and G.R. Krieger (eds), *Clinical environmental Health and Toxic Exposures*. Lippincott Williams and Wilkins, Philadelphia. pp. 68-77.
- 2005 Sánchez Lizardi, P., R. Morris, and **M.K. O'Rourke**. 2005. Cognitive and Behavioral Effects of Children's Exposure to Pesticides: Critical issues and Research Trends. in (Morris, R. ed.) *Disability Research and Policy: Current Perspectives*. Lawrence Erlbaum Associates Publishers, London. pp. 125-140.

Refereed Journal Articles (+based on graduate dissertation work)

- 1982 +**O'Rourke, M.K.** 1982. Composition and distribution of urban vegetation in the Tucson basin. *Journal of Arid Environments* 5:235-248.
- Lebowitz, M.D., **M.K. O'Rourke**, R. Dodge, C.J. Holberg, G. Corman, R. Hoshaw, J.L. Pinnas, R.A. Barbee, & M.R. Sneller. 1982. The adverse health effects of biological aerosols, other aerosols, and indoor microclimate on asthmatics and nonasthmatics. *Environment International* 8:375-380.
- 1983 Lebowitz, M.D., C.J. Holberg, **M.K. O'Rourke**, G. Corman and R. Dodge. 1983. Gas stove usage, CO and TSP, and respiratory effects. *Proc: Indoor Air Pollutants Health Effects* (also published: *EPA 600-D83-107*)- peer reviewed proceedings
- O'Rourke, M.K.** 1983. Pollen from adobe brick. *Journal of Ethnobiology* 3:39-48.

- 1984 ⁺**O'Rourke, M.K.** and M.D. Lebowitz. 1984. A comparison of regional atmospheric pollen with pollen collected at and near homes. *Grana* 23:55-64.
- ⁺Lebowitz, M.D., G. Corman, **M.K. O'Rourke**, C.J. Holberg. 1984. Indoor-outdoor air pollution, allergens and meteorological monitoring in an arid southwest area. *Journal of the Air Pollution Control Association* 34:1035-1038.
- 1985 Davis, O.K., R.S. Anderson, P.L. Fall, **M.K. O'Rourke**, R.S. Thompson. 1985. Palynological evidence for early Holocene aridity in the southern Sierra Nevada, California. *Quaternary Research* 24: 322-332.
- O'Rourke, M.K.** and J.I. Mead. 1985. Late Pleistocene and Holocene pollen records from two caves in the Grand Canyon of Arizona, USA. *American Association of Stratigraphic Palynologists (AASP), Contribution Series #16*:169-186.
- 1986 **O'Rourke, M. K.** and S.L. Buchmann. 1986. Pollen yield from olive trees cvs. Manzanillo and Swan Hill in closed urban environments. *Journal for the American Society for Horticultural Science* 111(2):980-984.
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- 1997 **O'Rourke, MK** & S. Jin. *Infiltration of Pollen in southwestern homes.* Pan -American Aerobiology Association. Boston. June 18.
- O'Rourke, M.K.**, *Pesticide use results for NHEXAS Arizona Baseline Questionnaire.* EPA Workshop on Pesticide Exposure. El Paso Texas. Dec 9.
- O'Rourke, M.K.**, *Changes in PEF Using REM for Bermuda Grass, Mulberry and Chenopodium.* Respiratory Sciences Research Seminar: AHSC, The University of Arizona, Tucson. Jan. 23.

- O'Rourke, M.K.**, *Exposure to Lead through Inhalation How important is it?* Respiratory Sciences Research Seminar AHSC, The University of Arizona, Tucson. October 16.
- O'Rourke, M.K.**, *An Automated Data Processing System.* Cancer Center Research Seminar The University of Arizona, Tucson. September 10.
- 1998 **O'Rourke, M.K.**, Aguirre, A. and Lebowitz, M.D. 1998. *Exposure of Children to Pesticides in Yuma Co. Arizona.* ISEE/ISEA Joint Conference, Boston, MA August 15-19.
- O'Rourke, M.K.**, Hatlelid, K.M., Rogan, S. Weiss, A. and Lebowitz, M.D. *Arsenic exposure: Demographic and Spatial Associations from NHEXAS, AZ.* ISEE/ISEA Joint Conference, Boston, MA August 15-19.
- O'Rourke, M.K.**, *Arsenic Exposure in Arizona and Lung Disease.* AHSC, The University of Arizona, Respiratory Sciences Research Seminar: Tucson. October.
- O'Rourke, M.K.**, *Exposure of Children to Pesticide in Yuma Co., Arizona.* EPA Workshop on Pesticide Exposure. Research Triangle Park. Jan 26-27. (invited)
- O'Rourke, M.K.**, *Exposure of Children to Pesticide in Yuma Co., Arizona.* EPA Workshop on Children's Pesticide Exposure. Washington D.C, Mar 31-Apr 1. (invited)
- 1999 **O'Rourke, M.K.**, J.L. Burgess, A. Comrie, L. Comrie et al. *Public health and access to air quality data: The EMPACT project in Tucson.* Pan American Aerobiology Association, Tucson, May 28-June 1.
- O'Rourke, M.K.**, *Exposure to Arsenic in mining and non-mining communities of Arizona: a NHEXAS study.* University of Tulsa Biosciences Seminar., Feb 12. (Visiting Professor)
- O'Rourke, M.K.**, Sanchez Lizardi, P., Robly, H. and Saint, C.G. *First morning voids and urine collection from young children.* CDC Symposium. American Chemical Society. New Orleans, August 1999.
- 2000 **O'Rourke, M.K.** *Pesticide Exposure and Pesticide Biomarkers.* Pan American Aerobiology Association, Rensselaerville, N.Y. April 28-30.
- O'Rourke, M.K.** *Environmental Exposure to Metals in Arizona.* Southwest Environmental Health Sciences Center, Tucson Az. May 18.
- O'Rourke, M.K.** *Exposure of Children to Pesticide in Yuma County, Arizona. Part I: Study Design and Methods.* EPA (Star Program) Pesticide Exposure in Children, Seattle, Washington. July 19-20.

- O'Rourke, M.K.** S.P. Rogan, M.D. Lebowitz, and G. Robertson. *Lead concentrations in duplicate diet samples: A comparison of State and Border populations in Arizona.* 4th International Dietary Conference. Tucson, Arizona, Sept 17-20.
- O'Rourke, M.K.** *Measuring pesticide intake in children.* 4th International Dietary Conference. Tucson, Arizona, Sept 17-20.
- O'Rourke, M.K.** *Field collection of duplicate diet and diet diaries in exposure assessment surveys.* 4th International Dietary Conference. Tucson, Arizona, Sept 17-20.
- O'Rourke, M.K.,** Rogan, S.P., Gordon, S.M., Robertson, G., Moschandreas, D. and Lebowitz, M.D. *Lead, Arsenic, and Cadmium Concentrations: Comparative Results from the NHEXAS-Arizona Border and NHEXAS-Arizona Studies.* International Society of Exposure Assessment. Monterey CA. October 24-27.
- 2001 **O'Rourke, M.K.,** S.P. Rogan, M.D. Lebowitz, and G. Robertson. *Duplicate Diet Samples: A comparison of Lead Concentrations among Arizona populations.* United States Mexico Border Health Association. Las Cruces, NM. May 28-June 1.
- O'Rourke, M.K.,** Rogan, S.P., Sánchez Lizardi, P., Lebowitz, M.D., and Robertson, G. *Hispanic Dietary Components and Proximity to the US-Mexico Border.* International Society of Exposure Analysis Annual Meeting. Charleston, S.C. November 5-8.
- 2002 **O'Rourke, M.K.** Sanchez Lizardi, P., Nishioka, M., Aguirre, A. and Lebowitz, M.D. *Exposure of Children to Pesticide in Yuma County.* EPA Annual Science Fair. Washington, D.C. May 1, 2002.
- O'Rourke, M.K.** *Overview of Pesticide Exposure in an Agricultural Community.* Society of Toxicology Regional Meeting. Invited Plenary Speaker. Las Vegas, NV. September 25.
- 2004 **O'Rourke, M.K.,** Rogan, S.P., White, T., Freeman, N.G., Nishioka, M. and Aguirre, A. *Variability of pesticide loadings on the hands of children living in a desert community.* ISEA, Philadelphia, USA. October 17-21.
- 2005 Rogan, S.P., **O'Rourke, M.K.,** Kurzius-Spencer, M. Robertson, G. Gordon, S. *Distributions of Arsenic, manganese and Lead Exposure in NHEXAS, AZ.* ISEA, Tucson, USA, October 31-November 3.
- 2007 **O'Rourke, M.K.** Roberge, J., Kopplin, M., Burgess, J., Lantz, C., Meza Montenegro, M., Guiterrez Milan, L. 2006. *Should all urinary arsenic species be adjusted for creatinine?* ISEA Annual Meeting. Durham, NC. October 14-18. 2007
- 2009 **O'Rourke MK,** Kurzius-Spencer M, Roberge J, Hsu P, Harris RB, Burgess JL. *Comparison Of Measured and Modeled Methods of Assessing Dietary Arsenic.* ISES Minneapolis MN, Nov 1-5
- 2010 Caldeira, F., Norman, L.M., Callegary, J., O'Rourke, M.K., de Zapien, J., and Rosales. C. *Water Quality Analysis on Health in Two Different Colonias in Nogales, Sonora, Mexico and Investigation of Cost Effective Water Delivery.* Binational Colloquium on Transborder Human Development in the Arizona - Sonora Region. Nogales, May 27-28.
- 2011 Caldeira, F., O'Rourke, M. K., and Gil, C. *Water and Wellness in Two Colonias of Nogales, Sonora,*

- Mexico. Health, Wellness and Society (An International Conference). Berkeley CA Jan 20-22.*
- Gyger, J.T., **O'Rourke, M.K.** and Van Ert, M.E. *Exposure to fungi liberated from paper-clay in a pottery fabrication studio.* Poster, Indoor Air 2011. Austin, Texas. June 9, 2011.
- O'Rourke, M.K.**, M. Kurzius-Spencer, S.P. Rogan, V. Hartz, R. B. Harris, P. Hsu, S. Khanna, J.L. Burgess. Comparisons of Measured and Modeled Dietary Arsenic and Relationships to Urinary Arsenic Totals. Washington D.C. EPA STAR Conference. Sept 26-27.
- Kurzius-Spencer, M., O'Rourke, M.K. J. Roberge, V. Hartz, J.L. Burgess, P. Hsu, R. B. Harris. Contribution of Dietary Arsenic to Excretion of Urinary Arsenic. Washington D.C. EPA STAR Conference. Sept 26-27.
- Dermody, M., O'Rourke, MK, Klemiki, W. (2011) Arsenic Exposure From Private Wells in a Mineralized Region of Rural Arizona. Poster. ISES Baltimore, Oct 23-27.
- 2012 Bekris H., Loh M., O'Rourke MK. Toenails as a Biomarker for Arsenic Exposure in Well Water Users in Rural Arizona. ISES Seattle, WA. Oct 28-Nov.1.
- Dermody, M., O'Rourke, MK, Klemiki, W. (2012) Arsenic Exposure From Private Wells in a Mineralized Region of Rural Arizona. Arizona Rural Health Conference, Sept 13-14. Tucson, AZ.
- Kurzius-Spencer M, O'Rourke MK, Hartz V, Roberge J, Burgess JL, Hsu C-H, Harris RB. Contribution of Dietary Inorganic Arsenic Intake to Urinary Arsenic Biomarkers. ISES Seattle, WA. Oct 28-Nov.1.
- O'Rourke MK**, Kurzius-Spencer M, Harris RB, Hsu C-H, Burgess JL. Measured and Modeled Dietary Arsenic Compared with Urinary Arsenic Totals. ISES Seattle, WA. Oct 28-Nov.1.
- 2014 **O'Rourke, MK.** Aggregate Exposure to Arsenic in Mining and Non mining communities (NHEXAS). Research Triangle Park, NIEHS RTP, NC March 3 2014. Webcast.
- 2016 Al-Salameen, A., O'Rourke, MK., Harber, P., Abugad, H., Al-Otaibi, S. Low Back Pain (LBP) Among Workers in a Saudi Paint Factory. American Occupational Health Conference. Chicago April 15-18.
- Al Abdulwahab, A., O'Rourke, MK., Harber, P. Abugad, H., Al-Otaibi Physical Risk Factors Of CTDS In Aluminum Works In Saudi Arabia. American Occupational Health Conference. Chicago April 15-18.
- O'Rourke, MK.**, Harris, RB, Honanie, GS., Joshweseoma, L. Burgess, J. Cumulative Exposure Effects: Expanding Research with the Hopi Tribe. ISES, October 9-13, Utrecht, The Netherlands.
- Harris, RB. and O'Rourke, MK.** Cumulative Exposure Effects: Expanding Research with the Hopi Tribe. Tribal Environmental Health Conference, June 20-21, Flagstaff, AZ.

GRANTS & CONTRACTS:

Federal

- 1977-81 Co-Investigator, EPA Grant - Air Pollutants, Aero-Allergens and Respiratory Health.
- 1985-87 Co-Investigator for EPA Grant entitled "Air Pollution, Aeroallergens & Airway Obstructive Disease." (Dr. Lebowitz P.I. ~\$500,000).
- 1987-93 Co-Investigator for EPA Grant entitled "Respiratory Responses to Indoor/Outdoor Air Pollution, Aeroallergens, and Weather," (Dr. Lebowitz P.I.) (\$1,061,423).
- 1991 Co-Investigator EPA-Las Vegas contract for "Assessment of Indoor/Outdoor exposures to Biological Aerosols." (1991 = \$35,000).
- 1992 Principal Investigator for UNLV-EPA Subcontract "Collection of Fungi and Microbes in Homes." 1992, \$77,000.
- 1993-99 Co-Principal Investigator: NHEXAS- National Human Exposure Assessment Survey. EPA Co-operative Agreement CR821560-01-0 (M. Lebowitz, P.I.). (The three year total = \$3,330,976).
- 1996-99 Principal Investigator: Exposure of Children to Pesticides in Yuma Co., Arizona. (Federal Demonstration Project) EPA STAR GRANT #825169. (Three year total = \$625,841)
- 1996-99 Co-Principal Investigator: Total Human Exposure in Arizona: A Comparison of the Border communities and the state, NHEXAS AZ Special Study. Cooperative Agreement (M. Lebowitz, P.I.) (The three year total = \$1,708,066).
- 1998-99 Co-Principal Investigator: Analysis and Reporting of National Human Exposure Assessment Survey (NHEXAS) Experimental Data. PR-NC-98-11830 EPA Contract (M. Lebowitz, P.I.). (Total to date = \$200,000).
- 1998-01 Co-Principal Investigator: Long-term Morbidity and Mortality Related to exposures to particulate matter and associated air pollutants. EPA Grant (M. Lebowitz, P.I.). (Total project = \$356,608).
- 1999-01 Co-Principal Investigator: Public Access to Environmental Monitoring Data in Tucson, AZ Funded by EPA (to PDEQ, PDEQ to UA) (year 1 (UA) = \$114,245).
- 1998-2002 Co-Principal Investigator: Analysis and Reporting of National Human Exposure Assessment Survey (NHEXAS) Experimental Data. PR-NC-98-11830 EPA Contract (M. Lebowitz, P.I.). (Total = \$270,000).
- 1999-03 Principal Investigator: Vulnerability of Young Children to Organophosphate Pesticides and selected metals through intermittent exposures in Yuma County, Arizona. EPA STAR GRANT # R827443. (Total = \$712, 313)

- 2000-01 Principal Investigator: Supplement to Exposure of Children to Pesticides in Yuma Co., Arizona. (Federal Demonstration Project) EPA STAR GRANT #825169. (Supplement = \$100,000 addition to Project 3).
- 2000-01 Co-Investigator: Border Health Strategic Initiative Border Health SI! 200-2000-10070 Centers for Disease Control. (S. Cohen, P.I.) (Total to date = \$2,500,000)
- 2001-2004 Co-Principal Investigator (10%): Use of GIS in analyzing environmental cancer risks as a function of geographical scale. 5 RO1 CA92680-02, (Robin Harris P.I.) ~\$700,000.
- 2005-2007 Co-Investigator (10%): Arsenic Supplement to: SPORE in Gastrointestinal Cancer NCI P50 CA-95060 (EW Gerner, PI) ~\$500,000 for supplement
- 2008-2011 Co-Principal Investigator (10%): Modeling dietary contributions to arsenic dose and methylation: Elucidating predictive linkages. EPA STAR #833992. ~\$500,000.
- 2015-2020 Mixed roles (25%): Center for Indigenous Environmental Health Research (CIEHR). Jeff Burgess PI: Core Director and Project Co PI. NIEHS/EPA (5 years @ ~\$5,000,000).

Federal Pending

- 2015 Co- Investigator (10%). Dietary Arsenic Species: Exposure, Dose, Metabolism and Toxicity. (resubmission in preparation.)

Federal Conference Grants:

- 2005 Co-Principal investigator (0%): ISEA Conference Grant from CDC. DHHS/NCEH: H13/CCC924630-01 ~\$35,721.
- 2005 Co-Principal investigator (0%): ISEA Conference Grant from EPA. ~\$25,000.
- 2005 Co-Principal investigator (0%): ISEA Conference Grant NIH/NCI/NIEHS. ~\$8,000.

State

- 1979 Pollen analysis of samples from St. John's, Az. Arizona State Museum. (\$300)
- 1981 Pollen analysis of samples from Fort Lowell, Az. Arizona State Museum. (\$700)
- 1980-81 Principle Investigator, State Historic Preservation Fund Grant SP # 8020. (\$1200)
- 1999-00 Co-Principal Investigator: Hayden & Winkelman Arsenic and Lead Survey. Arizona Department of Health Services. (Total = \$111,000).
- 2001 Principal Investigator: Pesticide Exposure Potential Model. Arizona Department of Health Services, \$65,000 --PI 2000-01

- 2001-04 Principal Investigator (10%): Integrated Epidemiological Study of Valley Fever. ADCRC # 6017. \$690,339
- 2011 Principal Investigator (0%): *Engaging Rural Domestic Well Users in Water Quality Analyses*, was selected to receive funding. WSP/TRIF \$32,110
- 2011 Co-Principal Investigator (0%): Variability of arsenic exposure and Chronic Disease in Arizona. WEES/TRIF \$20,000.
- 2013 Co-PI (0%): The Exposure Science and Risk Assessment Center (ESRAC). WEES/TRIF \$250,000

Private Foundation

- 1976 Pollen research at Sparta Bog, New York. SUNY of Buffalo. (funded by National Geographic \$1200).
- 1989 Co-Principal Investigator for a Desert Museum Grant to determine pollen production transport and filtration in the Waterman Mountains, Pima Co. Arizona (\$1000) (with Dr. Thomas Van Devender ASDM).
- 1990 Co-Principal Investigator for a Desert Museum Grant to determine variations in the pollen morphology of the *Cylindro-Opuntia* (\$1200) (with Dr. Thomas Van Devender ASDM).
- 1990-95 Principal Investigator: Center for Indoor Air Contract (90- 003) entitled "Indoor Biological Agents: Exposures and Responses in Allergy and Asthma." (Total \$682,147).
- 1999-01 Principal Investigator: Gila River Indian Community - Respiratory Health & Exposures. Funded by the Arizona Lung Association (Year 1= \$12,500, Year 2 = \$25,000)