

ANNA H. SPITZ
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EDUCATION

Ph.D. Geosciences, 1991	University of Arizona, Tucson, AZ
M.A. Geological Sciences, 1985	SUNY at Binghamton, Binghamton, NY
M.B.A. Business Administration, 1978	Duke University, Durham, NC
B.A. Political Science, 1976	Wellesley College, Wellesley, MA

EXPERIENCE

UNIVERSITY OF ARIZONA/ARIZONA WATER INSTITUTE (AWI) AND COLLEGE OF SCIENCE CENTER FOR ASTROBIOLOGY (COS-CFA), TUCSON, AZ, JULY 2006-PRESENT.

AWI UA CAMPUS COORDINATOR – Responsibilities include ensuring communication among water researchers across the university and among universities and collaborators, coordination of joint proposals, and production of all AWI products; additional duties per direction of AWI Executive Director.

COS-CFA PROGRAM MANAGER – Responsibilities in collaboration with Directors and Steering Committee include creation of framework for the Center, oversight of website development, development of business plan and establishment of interdisciplinary graduate and undergraduate program.

UNIVERSITY OF ARIZONA/STEWART OBSERVATORY, TUCSON, AZ, DECEMBER 2000-2006.

PROGRAM MANAGER – ASSISTANT PROGRAM MANAGER – Program Manager of the Life and Planets Astrobiology Center (LAPLACE) and (2004-2006) and Assistant Program Manager for the Large Optics Test and Integration Site (LOTIS) project (2005-2006). As Special Assistant to the Director (2000-2004) worked on Native American and other public outreach, project cost tracking, staff management and scheduling. Principal Investigator on Environmental Fuel Reduction Grant for Mt. Graham International Observatory (2003-2004). Liaison for environmental and outdoor lighting issues (2000-2005). Chair of Stewart Observatory Human Subjects Departmental Review Committee. Service on Vice President for Research's Institutional Chemical Safety Committee and Arizona Tribes Initiative Working Group. Member of Pima County/City of Tucson Outdoor Lighting Code Committee (2003-2005). Alternate member of the Mt. Graham Red Squirrel Recovery Stakeholders Committee (2004-2006).

SONORA ENVIRONMENTAL RESEARCH INSTITUTE, INC., TUCSON, AZ, 1994-2000.

RESEARCH ASSOCIATE - Responsible for budget, administration, personnel management, contract negotiation and administration, and business development including proposal writing and business plan composition; conducted contract negotiations; administered grants and managed projects and ongoing programs; liaison with federal and state agencies on grant projects, Tohono O'odham Nation, and subcontractors; responsible for patent application preparation; led and participated in R&D efforts including research into source apportionment of lead using ICP-MS technique and development of novel recycling products, business development for new products, database development for projects, and design and presentation of public outreach and educational activities and curricula.

PIMA COMMUNITY COLLEGE, TUCSON, AZ, 1992-2001.

ADJUNCT FACULTY MEMBER - Designed and taught the course *Environmental Sampling and Monitoring*; designed and taught *The Solar System* and *Solar System Laboratory*.

PIMA COUNTY SOLID WASTE MANAGEMENT DEPARTMENT, TUCSON, AZ, 1992-1994.

TUCSON/PIMA COUNTY HOUSEHOLD HAZARDOUS WASTE PROGRAM (HHWP) COORDINATOR AND ENVIRONMENTAL PROGRAMS MANAGER - Responsible for administrative, personnel (employees and volunteers) and operational management of HHWP; conducted contract negotiation and administration; managed development of databases for operational activities and personnel; oversaw subcontractors; planned and setup the Small Business Waste Assistance Program (SBWAP); oversaw and conducted compliance sampling and waste profiling; responsible for environmental and safety compliance with federal, state and local regulations; primary contact with federal, state and local agencies; conducted public outreach activities, public relations efforts, and curriculum development; responsible for technical and administrative management of the Landfill Environmental Studies Program.

ENVIROMD, INC., TUCSON, AZ, 1991-1992.

ENVIRONMENTAL SCIENTIST - Developed protocols and conducted site assessments, sampling, and hazardous materials evaluations; managed sampling and remedial action projects including leaking underground storage tanks, PCB contamination, and hazardous waste; conducted AHERA and OSHA compliance inspections; supervised subcontractors; negotiated project contracts; developed environmental training courses.

ZENITECH CORPORATION, TUCSON, AZ, 1989-1991.

MANAGER, ENVIRONMENTAL SCIENCES - Coordinated contract administration, personnel, and resource management; managed sampling and remedial action projects; assisted companies with regulatory compliance; developed sampling protocols; and conducted safety and health training.

UNIVERSITY OF ARIZONA, TUCSON, ARIZONA, 1985-1989.

RESEARCH ASSISTANT - Programmed models to determine crystal growth during metamorphism (C language/UNIX system) and produce graphical representation; designed and programmed models to determine trace element concentrations during melting and solidification (FORTRAN language); received three-year NASA Research Fellowship for meteorite study.

WERNER SPITZ CONSTRUCTION CO., INC., ROCHESTER, NY, 1978-1983.

COMPUTER SYSTEMS ANALYST AND ASSISTANT COMPTROLLER - Responsible for computer software design and programming; assisted with proposal writing, bidding, contract negotiation and contract administration (government and private), project scheduling, reporting, review and change orders, project management; and conducted accounting/financial planning and other corporate duties for this multimillion dollar company with Comptroller and President.

SELECTED COMMUNITY SERVICE AND VOLUNTEER ACTIVITIES

State of Arizona Site Steward Program – Site Steward (2000-2007).

Sonora Environmental Research Institute Inc. Board Member. Secretary-Treasurer. CASA Advisory Board Member. (1996-present).

American Red Cross – Instructor, various courses (1989-present)

Tucson/Pima County Household Hazardous Waste Program – Collection Site Volunteer, Volunteer Trainer and Education Committee member (1989-1998); Volunteer Coordinator (2003-2006).

SELECTED SCIENTIFIC PUBLICATIONS

Spitz, A.H. (2007) “Learning and Communicating Across Disciplines.” *Mercury*, 36(2): 32-36.

Spitz, A.H. (2006) “Visiting the Moon Lady: A Celebration of Children and Culture.” *Mercury*, 35(4): 24-29.

Spitz, A.H. and The Exchange Village (2005) “It Takes a Village: Interdisciplinary Graduate Education in Astrobiology -The UA/NOAO “LAPLACE” – University of Washington Exchange” Poster Presentation at NASA Astrobiology Institute Biennial Meeting.

Wolf, A. A., Spitz, A. H., Olson, G., Závodská, A. and Algharaibeh, M. (2003) “Characterization of the Solid Waste Stream of Tohono O'odham Nation,” *Journal of Environmental Health*, 65(8): 9-15.

Spitz, A.H., Ratje, J. and Corbally, C. (2002) “Aiding local community efforts to implement an outdoor lighting ordinance”, poster presentation at International Dark Sky Association Annual Meeting, March 15-19, 2002.

Wolf, A. A., Kettler, L. E., Leahy, J. F. and Spitz, A. H. (1997) “Surveying Household Hazardous Waste Generation and Collection: Trends in Arizona”, *Journal of Environmental Health*, 59(7): 6-11.

Spitz, A. H., Wolf, A. A. and Ruiz, J. (1995) “Source Apportionment for Lead Exposure,” *Proceedings of the Society of Women Engineers*: 109-114.

Wolf A. A. and Spitz, A. H. (1995) “Emerging Technologies for Rapid Testing of Pollutants,” *Proceedings of the Society of Women Engineers*: 73-78.

Spitz, A. H., Wolf, A.A., Holcomb, M., and Uthe, D. (1995) “Arizona Program Helps Solve Small Business Hazwaste Problems”, *Environmental Solutions*, 8(2):45-48.

Spitz, A. H., Wolf, A. A., and Holcomb, M (1994) “Implementing a Collection Program for Conditionally Exempt Small Quantity Generators of Hazardous Waste”, *Waste Age* 25(8), 83-89.

Spitz, A. H. and Boynton W. V. (1991) "Trace Element Analysis of Ureilites: New Constraints on Their Petrogenesis," *Geochimica Cosmochimica Acta*, 55:3417-3430.

Spitz, A. H. and Ruiz, J. (1991) "Trace element analysis of ureilites using ICP-MS," *Lunar and Planetary Sciences Conference XXII*.