

**Ríobart É. (Rob) Breen, Ph.D.**  
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**Summary**

- Thought leader, social entrepreneur, innovator and systems thinker
- Passionate and inspirational team leader, mentor, teacher and community developer
- Experienced leader in upper management / executive level non-profit and government agencies
- Organizational developer, strategic planner, analytical and creative problem solver
- Leadership for community-based, regional and state conservation, sustainability and climate resilience
- Diverse professional skill set, interdisciplinary education and multi-cultural literacy
- Sustainable homesteader, goat farmer, beekeeper and agroecology/agroforestry practitioner

**Education**

**Ph.D. in Environmental and Natural Resources Policy and Administration.** Northern Arizona University, Flagstaff, Arizona. 2006. Courses in environmental and natural resources policy (forestry and watersheds), youth and environmental education policy, public administration, economic analysis, and quantitative and qualitative research methods.

**M.A. in Public Policy and Administration.** Northern Arizona University, Flagstaff, Arizona. 2005.

**B.A. in Social Sciences (History) and Studio Art.** State University of New York, Geneseo, New York. 1989. Concentrations in education and medieval studies. Participated in Visiting Student Program in Art Education at Nazareth College, Rochester, NY, 1988.

**Professional Experiences**

**Director, Institute for Transformational and Ecosystem-based Climate Adaptation (ITECA),** University at Albany, Albany New York. 2024 – present.

Founded and directed new university institute dedicated to leading transformational climate change adaptation by fostering climate justice and equity, advancing nature-based solutions and behavior-based solutions, and preparing the next generation of climate change leaders, especially through student community engagement and service learning.

- Administered multi-million-dollar Urban Café Day initiative funded by the US Forest Service Urban and Community Forestry program that engaged students and faculty in implementation of ecosystem-based adaptation solutions in disadvantaged communities, including urban reforestation to reduce urban heat islands and flooding
- Developed administrative infrastructure and institution mission and recruited and trained staff
- Ran student climate corps
- Convened intergenerational community advisory board
- Prepared local governments and communities for climate adaptation planning and implementation

**Lecturer and academic advisor – Biodiversity, Conservation and Policy Program,** University at Albany (SUNY), Geography and Planning Department, Albany, New York. 2019 – present.

Developed and taught in-person graduate courses (online during Covid pandemic) in conservation policy that integrated scenario and simulation experiences. Integrated futures scenarios and simulations in most classes. Provided administrative support for academic program development, developed new courses, advised students, provided thesis guidance, and assisted students to secure internships and employment. Courses taught:

- Topics in Biodiversity, Conservation and Policy
- Biodiversity and Conservation: Policy Issues

- Ecosystem-based Management and Climate Adaptation Policy and Planning
- Water Resources Policy and Planning
- Sustainable Watershed Management
- Natural Resources Governance and Innovation

**Climate Change Adaptation Section Lead**, New York State Department of Environmental Conservation - Office of Climate Change, Albany, New York. 2018 – 2024.

Analyzed, developed and implemented policies and strategies to prepare state government agencies, local governments and communities, and ecosystems for climate change impacts through adaptation and resilience.

- Served as lead for climate adaptation and communication section, supervising staff, fellows and interns
- Lead multi-million-dollar procurement processes and coordinated annual \$19.1 million spending plan, budgeting and allocations of New York State Environmental Protection Fund appropriations for climate change initiatives, with oversight for \$3 million in appropriations and procurements for implementation
- Managed state agency climate change vulnerability assessments initiative with oversight for contracted consultant, program goals and deliverables, and high-impact reports
- Developed new approaches to climate adaptation planning, scenario planning with simulations, and resilience planning
- Developed ecosystem-based adaptation (nature-based solutions) initiative
- Served on steering committees that developed the New York State Climate Adaptation and Resilience Plan, NYS Extreme Heat Adaptation Plan, the New York State Climate Change Impacts Assessment
- Coordinated interagency workgroup for developing decision support tools for adaptation and resilience
- Developed annual Governor's State of the State policy strategies
- Tracked key state and federal legislation and annual state budget legislation and appropriations
- Served on US Climate Alliance Resilience workgroup that developed local finance strategies and indicators and metrics for measuring impacts of adaptation strategies
- Served on work group that developed adaptation and resilience measures for the CLCPA Climate Action Council's Scoping Plan
- Edited and contributed to several state government policy documents and plans revised to include climate change science and impacts, including NYS Climate Impacts Assessment, NYS Open Space Plan, Ocean Acidification Report, Great Lakes Action Agenda, Hudson River Estuary Action Agenda, and DEC Annual Report
- Coordinated communication strategies for the Office of Climate Change, and managed overhaul of OCC website
- Developed and delivered multiple public presentations on climate change adaptation and resilience science and policies

**Executive Director**, Anam Earth Center for Sustainability and Culture, Albany County and Syracuse, New York and Flagstaff/Show Low, Arizona. 1999 – 2024 (full-time 2002-2012).

Founded and developed community-based non-profit 501(c)(3) organization for community development, sustainability education, ecological restoration, environmental justice, and youth and young adult leadership development within urban, rural, Hispanic, African American and Native American communities.

- Developed administrative infrastructure, policy manuals, and agency mission and supervised, managed and trained 25+ employees
- Trained board of directors, designed accounting system, and developed policy
- Developed and managed interagency financial contracts with state, federal, and tribal agencies
- Established and operated Glendara Sustainable Homestead for community supported homesteading and education in sustainability and climate resilience best practices, including managing vegetable gardens, fruit tree orchard, woodlot, goats, chickens, ducks, honey bees, mushroom yard, maple sugarbush, and medicinal herb gardens
- Developed and implemented EarthQuest climate change and sustainability scenario and simulation game for youth and young adults

- Created and managed White Mountain Youth Corps ecological restoration program in rural Northern Arizona
- Secured \$500,000 implementation grant, managed 40+ employees, work projects, vehicles, office, and inventory
- Established the Anam Circle ecoregional policy think tank leading team of early career professionals to provide thought leadership and conduct sustainability policy analysis and policy innovation for local communities
- Created watershed-based community/citizen/stakeholder mobilization strategy for watershed protection in collaboration with Onesquethaw-Coeymans Watershed Council
- Created 4H Earth Clubs ecocivic sustainability education program for youth in partnership with Cornell Cooperative Extension and secured implementation grant funding
- Created Onondaga Earth Corps for low-income inner-city youth in collaboration with Cornell Cooperative Extension
- Managed watershed analysis field research using ArcGIS, and watershed governance analysis of zoning and codes
- Developed and implemented ecosystem-based management and restoration plan for 200-acre nature center

**Ocean and Great Lakes Policy Analyst**, New York State Department of State – Ocean and Great Lakes Program - Coastal Management Program/Office of Planning and Development, Albany, New York. 2012 – 2018.

Analyzed, developed and implemented policies and strategies (environmental, social and economic) to protect and revitalize coastal communities adjacent to the ocean, Great Lakes, Long Island Sound, and Hudson River estuary, emphasizing climate change resilience, sustainability, and ecosystem-based management.

- Lead analysis and revision of New York’s Coastal Management Plan and coastal policies in accordance with the Coastal Zone Management Act, including new sections on climate change and resilience
- Key analyst for major power plant permit renewal process to determine consistency with coastal policies and future climate change impacts
- Provided collaborative co-leadership for Great Lakes Action Agenda’s ecosystem-based management planning and implementation, watershed planning and stakeholder collaboration for coastal watershed demonstration areas, emphasizing climate resilience
- Developed strategies to move Great Lakes coastal communities toward climate change resilience, ecosystem-based management, and sustainable economic development with a special focus on the water-food-energy-climate change nexus
- Tracked key state and federal legislation and annual state budget legislation and Environmental Protection Fund (EPF) appropriations
- Developed procurements for EPF-funded Great Lakes initiatives
- Developed new models for collaborative governance, collaborative policy innovation and future scenario planning and simulation as part of climate resilience strategy
- Developed innovative new toolset for systems analysis of natural resources, climate resilience, sustainability and community social analysis for policy adoption readiness
- Represented New York on bi-state marine spatial planning initiative for Long Island Sound

**Assistant Professor - Environmental Studies/Political Science**, Siena College, Loudonville, New York. 2006 – 2013.

Developed and taught undergraduate courses in environmental policy and politics, environmental justice policy, urban environmental sustainability issues, public policy, public administration, state and local government, municipal government, and comparative local government in Ireland.

- Integrated sustainability policy and governance, and complex social-ecological systems (SES) analysis into most classes, with a focus on the water-food-energy-climate change nexus
- Advised pool of 30 students in academic and career choices
- Incorporated extensive use of online learning, digital media, and electronic assignment submission

- Created and implemented “Environmental Health and Justice Education Initiative” AmeriCorps VISTA initiative to engage college students and youth in assessment of watershed-based community sustainability and socio-ecological system analysis and planning using participatory action research methods
- Tracked federal and state environmental legislation
- Awarded Siena Summer Scholars Research grant for “Environmental Democracy on the Kromma Kill: Developing a Preliminary Model for Community-Initiated Ecosystem-Based Policy and Management” student-faculty GIS project
- Developed new courses and new tools for teaching and applying sustainability policy systems analysis, and several climate change and sustainability role-play simulations
- Created and managed a student environmental sustainability policy think tank
- Created and advised two new student environmental clubs

**Director**, Coconino County Youth Services / Northern Arizona Conservation Corps / Northland Youth Conservation Corps, Flagstaff, Arizona. 1998 – 2002.

As member of upper management team, created and directed new county government youth services division with youth/ young adult employment and training/conservation corps programs, including international young adults and minority young adults from Hispanic and Native American communities.

- Promoted twice, and grew program from \$150K AmeriCorps program serving 20 young adults to \$2 million fee-for-service/grant program serving 110+ youth and young adults
- Managed 60+ employees, and managed volunteers and interns
- Developed and managed \$2 million annual budget
- Created new administrative infrastructure and wrote policy and procedures manuals
- Managed facilities, vehicles, and equipment
- Tracked federal and state legislation and grant funding opportunities
- Wrote, negotiated and managed contracts, agreements and grants with county, state and federal government agencies and tribal agencies
- Developed rural youth policy and vision, youth development mobilization strategy, and publicity materials
- Delivered regular oral and written reports directly to county legislature and agency executive director.
- Key leader in interagency and intergovernmental planning groups to develop regional conservation and community development strategies
- Created new County Youth Council for youth leadership and civic involvement, and implemented the region’s first Rural Youth and Environment conference
- Duties from 1998-200 included senior services, with a focus on food security and nutrition, and management of the meals-on-wheels program and congregant meals program and staff

**Assistant Manager**, Harkins Theatres, Tempe and Sedona, Arizona. 1997 – 2000. Member of retail management team that opened new multiplex luxury theatre. Managed 120 employees, cash handling procedures, food preparation, daily financial reports, facilities and high-tech audiovisual equipment. Provided extensive customer service and analysis/evaluation of existing managerial procedures. Spearheaded Quality Team and designed and delivered new youth supervisor training program.

**Program Coordinator**, Arizona State University, Tempe, Arizona. 1997 - 1998.

Conducted marketing/funding research on corporations and foundations, and prospect research on individuals during \$300 million capital campaign for university.

- Developed new protocols and processes for research

**Youth Program Director**, All Saints Community, Mesa, Arizona. 1995 - 1997.

As upper management staff member, created and directed comprehensive youth programming including education, community service, and outreach to 150+ youth.

- Trained and supervised 30+ volunteers and managed youth facility
- Managed budget, conducted strategic planning and needs assessment, and wrote reports

- Developed and implemented new Usery Mountain Youth Corps program and curriculum for youth civic leadership and environmental conservation service
- Initiated interagency community collaboration and strategic planning

**Grants Manager**, Boys & Girls Clubs, Phoenix, Arizona. 1994 - 1995.

As member of upper management staff, designed new youth programs, wrote and managed grants and budgets.

- Developed assessment tools for program evaluation of effectiveness and impact
- Tracked federal, state and foundation grant funding opportunities
- Key leader in city-wide community development collaborative initiatives
- Key player on management teams for strategic planning, overhaul of MIS department, and implementation of Total Quality Management (TQM)

**Education Coordinator/ Research and Development Coordinator**, Arizona State Parks Department - Arizona Conservation Corps, Phoenix, Arizona. 1992 - 1994.

As member of upper management team in state government agency, designed, implemented and managed statewide conservation education/ employment and training program for youth and young adults in a statewide, multi-site program.

- Promoted to direct agency strategic planning, research, grant writing, and manage special projects
- Tracked federal and state legislation and grant funding opportunities
- Negotiated and managed contracts with state and federal agencies, and managed \$300,000 program budget
- Created new computerized case management system to track participant progress
- Provided academic and career advisement to young adults in urban, rural, Hispanic, and tribal communities

**Program Coordinator**, Community of the 19<sup>th</sup> Ward, Rochester, New York. 1990 - 1992.

As member of management staff, developed and implemented education programs for inner-city youth and families, including environmental justice and community service programs, outreach and leadership development.

- Trained and supervised 20+ volunteers
- Conducted needs assessment and inter-agency community strategic planning

**Program Coordinator**, St. Agnes Community, Avon, New York. 1989 - 1990.

As member of management staff, developed and implemented youth and adult education programs for rural community

- Trained and supervised 20+ volunteers
- Created and managed new youth facility

**Program Coordinator**, City of Troy Youth Bureau, New York. 1989.

Ran environmental conservation employment and training program (youth conservation corps) for urban youth.

- Supervised youth crew that created urban nature park, doing basic construction, environmental testing, trail work, and landscaping
- Taught environmental awareness, life skills, and job readiness skills
- Managed budget, scheduled activities, and purchased supplies and equipment

**Current Policy Interests**

Climate change adaptation and resilience policy, transformational adaptation, ecosystem-based adaptation implementation, and models of sustainable and climate resilient communities  
Collaborative adaptive governance and parallel local institutions for transitioning to sustainable, resilient and climate-adapted communities

Community behavior change for transitions to sustainability and climate change adaptation and resilience  
 Exploring interdisciplinary models for transitioning to sustainable and resilient local community  
 governance and economies, resilient environmental governance, climate resilience policy analysis  
 tools and methods, ecosystem-based management and planning, systems leadership, institutional  
 pathologies and behavior change via norms, narratives, scenario planning and gamification.

## Publications

Aguirre-Torres, L., Leichenko, R., Austerman, M., Balk, D., Bond, H. E., Breen, R. E., Burgy, D., John, C., Parker, F., & Schlather, K. (2024). Chapter 8: Society and economy. In A. Stevens (Ed.), *New York State Climate Impacts Assessment [Interim version for public release]*.

Ríobart É. Breen, *Homo Habitatus and the Sustainability Class* (working title – in progress). Presents new model for the cooperative and altruistic human person in community based on recent research in evolutionary biology, evolutionary anthropology and behavioral science foundations as an alternative to the predominant homo economicus model. Insights of homo habitatus provide promise for social change toward sustainability and climate resilience. Outlines institutional and policy strategy to move communities toward sustainability and resilience behaviors.

Ríobart É. Breen, *EarthQuest Game Mentors Rulebook* (2023) (Clarksville, NY: Anam Earth Center) Climate change and sustainability scenario and simulation game instructional rulebook.

Ríobart É. Breen, *EarthQuest Players Handbook* (2023) (Clarksville, NY: Anam Earth Center) Climate change and sustainability scenario and simulation game instructional rulebook.

Ríobart É. Breen, *EarthQuest Adventure 1: Hudson River Climate Adapt* (2023) (Clarksville, NY: Anam Earth Center) Climate change and sustainability scenario and simulation game scenarios booklet.

Ríobart É. Breen, *Approaching Ecosystem Management: Change and Challenge in Forest Planning in the US Forest Service* (2008) (Saarbrücken, Germany: VDM Verlag). Synopsis: Analysis of forest plans to determine the level of integration of ecosystem management principles along with identification of several dominant narratives guiding forest plans.

## Policy Documents and Briefs

Local Climate Change Adaptation and Resilience Plan Template 2022 – Primary Author  
 State Agency Climate Change Vulnerability Assessments (35 agencies) – 2018-2022 – Content and editorial  
 New York Great Lakes Action Agenda – Ecosystem-based Management and Collaborative Adaptive  
 Governance Strategy 2017-2018 - Primary author  
 New York State Coastal Management Plan - Comprehensive Revision – Coastal Zone Management Act (CZMA)  
 Routine Program Change (regulation) – New York Department of State 2016-2017 – Primary author  
 Great Lakes Coastal Community Resilience Strategy and RFP – New York Department of State 2015 – 2018  
 Co-author. Scenario planning and ecosystem-based management planning process integrated with  
 watershed planning, offshore planning, sustainability and resilience to climate change  
 Coastal Resilience Policy Analysis Process – New York Department of State 2015 – Sole author  
 Resilience Analysis Tools for Coastal Management Planning – New York Department of State 2015 - Co-  
 author  
 Agency Innovation Team Brief – New York Department of State 2015 – Sole author  
 Long Island Sound Dredging Impacts Science Brief – New York Department of State 2015 – Sole author  
 Coastal Watershed Planning and Governance Models Brief – New York Department of State 2014 – Sole  
 author  
 Tribal Sustainable Economic Development Strategy Brief– New York Department of State 2014 – Sole author  
 Agency Resilience and Climate Change Strategy Brief – New York Department of State 2014 – Sole author

New York Department of State Offshore Atlantic Study – New York Department of State 2014 – Editorial  
 New York State Great Lakes Action Agenda - New York State Department of Environmental Conservation/  
 New York Department of State 2014 – Editorial  
 New York State Ocean Action Plan - New York State Department of Environmental Conservation/ New York  
 Department of State 2014 – Editorial  
 New York State Coastal Management Plan - Coastal Policy 29 Revision - CZMA Routine Program Change –  
 New York Department of State 2014 – Primary author  
 New York Department of State Coastal Policies Consistency Determination (Policy Analysis) for Indian Point  
 Energy Center License Renewal – New York Department of State 2014 – Primary author  
 Long Island South Shore Estuary Reserve Strategy Brief – New York Department of State 2013 – Sole author  
 New York Aquaculture Strategy Brief – New York Department of State 2013 – Sole author  
 Short-Sea Shipping and Sustainable Port Development Brief – New York Department of State 2013 – Sole  
 author  
 Ocean and Great Lakes Program Ecosystem-Based Management Integration Strategy Brief – New York  
 Department of State 2013 – Sole author  
 Framework Document of the Long Island Sound Coastal and Marine Spatial Plan – New York Department of  
 State / Long Island Sound Bi-State Marine Spatial Planning Group 2013 – Contributor  
 Strategic Plan for the Onesquethaw-Coeymans Watershed Council – 2012 – Co-author  
 Flagstaff Forests Partnership – Forest Management Strategy – 2002 – Contributor  
 Draft Legislation for Flagstaff Forests Partnership – Co-author  
 Draft Arizona State Youth Development Strategy – 2000 – Primary author  
 Draft Youth Development Policy for Coconino County – 2000 – Primary author  
 Trails Plan for the Maricopa County Department of Parks – 1996 – Co-author  
 Community Partnerships of Phoenix Strategic Plan – City of Phoenix – 1995 - Co-author  
 Draft Agency Strategy for Arizona State Parks Department - Arizona Conservation Corps – 1994 – Co-author

### Serious Game Projects

**EarthQuest** (1999 to present). Game for teams of youth and young adults exploring climate change, sustainability, the local environment and civics. Uses hybrid table-top scenario and simulation methods with storytelling, group role-playing, and a digital multimedia story map for mobile devices. Players take on the role of their future descendent and explore a plausible near-future world, where they learn actual skills to address real-world issues from legacy environmental pollution, climate-induced events, socio-political dilemmas, and the transition to sustainability and resilience. Players also earn points in the game for doing real-life outdoor environmental service and adopting sustainability behaviors at home.

- Developed EarthQuest game for youth and young adults, including world building, writing rulebooks, developing adventures, developing digital media and digital story maps for mobile devices, play-testing, evaluating and revising several iterations of the game over several years, managing teams of interns and volunteers
- Play-tested with diverse groups of urban, suburban and inner-city youth from middle-school through young adults from college and graduate school in various school and non-school settings
- Game materials include: *EarthQuest Players Handbook*, *EarthQuest Game Mentors Rulebook*, *EarthQuest Adventure 1: Hudson River Climate Adapt*, and *EarthQuest Story Map: EQ1 - Hudson River Climate Adapt* (interactive digital story map with integrated digital media on digital map platform for use with mobile devices to augment EarthQuest gameplay)

### Presentations

- Nov. 2023 “Climate Change Gloom and Bloom: New York State Climate Action and Roles for Youth” - Plenary Speech for the Adirondack Youth Climate Summit, Tupper Lake, NY
- May 2023 “Climate Change and Invasive Species” – NY Invasive Species Advisory Committee meeting – Virtual.

- Oct. 2022 “Local Climate Change Adaptation Planning” Panel on Open Space – NYS Association of Conservation Commissions - Conference on the Environment – Virtual.
- Feb. 2022 “Gloom and Bloom: Climate Change, Useful Technology and Hope” - Plenary Speech for the Innovation Summit of the National States Geographic Information Council (NSGIC) – Virtual.
- Jan. 2022 “Matters of Climate Change” – Winter Caucus of the National States Geographic Information Council – Virtual.
- Oct. 2021 “Gloom and Bloom - The Climate Change Story of Grief and Hope” - Closing Speaker for the New York State Association of Conservation Board Commissions' 50th Anniversary Conference on the Environment – Virtual.
- Jul. 2021 “Climate Change, Education and Youth” Summer Institute for Climate Change Education – NYC Department of Education – Virtual.
- Oct. 2020 “Prioritizing NYS Coastal Wetlands for Resilience and Blue Carbon” – New York State Department of Environmental Conservation Workshop – Virtual.
- May 2019 “New York State Responses to Climate Change” Annual NYS DEC Indian Nations Meeting / 23rd Annual US EPA Region 2 Indian Nation Leaders Meeting.) – Syracuse, NY.
- Mar. 2019 “Concepts of Climate Change Adaptation vs. Climate Change Resilience” – New York State Interagency Climate Adaptation and Resilience Workgroup workshop in Albany, NY.
- Jan. 2019 “Climate Change in New York: Implications for Agriculture” – Northeast Organic Farming Association Annual Conference, Saratoga Springs, NY.
- Sept. 2018 “New York State Coastal Management Program: Coastal Resilience Planning in Lake Ontario” - Great Lakes Regional Coastal Zone Management Annual Meeting in Chesterton, Indiana.
- Oct. 2017 “Climate Change and the Power of Stories”- Keynote Speech - Finger Lakes Youth Climate Summit at Hobart and William Smith Colleges in Geneva, NY.
- May 2017 Whole Watershed Community Planning Approach – Great Lakes Action Agenda community stakeholder meetings in multiple Lake Erie/Lake Ontario coastal communities, NY.
- April 2017 Three Alternatives for Local Collaborative Watershed Governance – NYS Department of Environmental Conservation – Watershed Citizen Science Workshop in Peebles Island, NY.
- Nov. 2011 “Toward a Complex Policy System Analysis of Socio-Ecological Systems: Using Cmap Concept Mapping Software to Apply Environmental Policy Analysis” at the Northeastern Political Science Association 2011 Annual Meeting, in Philadelphia, Pennsylvania.
- June 2011 “Toward Watershed-based Governance Along the Hudson River” at the Association for Environmental Studies and Sciences Annual Conference in Burlington, Vermont.
- Nov. 2009 “Role of Narrative in Environmental Policy of Complex Ecosocial Systems” at the Northeastern Political Science Association 2009 Annual Meeting, in Philadelphia, Pennsylvania.
- Nov. 2009 “Engaging Undergraduate Students in Environmental Policy and Governance Research: The Kromma Kill Creekshed Environmental Democracy Initiative” at the Environmental Consortium of Hudson River Colleges and Universities 6th Annual Conference, *Teaching and Learning the Hudson Valley: Building Capacity for Place-Based Education* held at Vassar College, Poughkeepsie, New York. Part of the “Local Watersheds” roundtable.
- Oct. 2009 “Participatory Action Research for Eco-Political Civic Engagement” as part of the Panel “Environmental Studies and Community-based Research: The Importance of Place in Student Learning” (Chaired by Dr. Jean Mangun) at the Association for Environmental Studies and Sciences Annual Conference in Madison, Wisconsin.



- Oct. 2009 “Creekshed-Based Environmental Democracy in Complex Ecosocial Systems” at the Association for Environmental Studies and Sciences Annual Conference in Madison, Wisconsin.
- May 2009 “Ecosystem Management in Unit Management Plans of the Adirondack Park” 16th Annual Conference on the Adirondacks – “Community Sustainability” Lake Placid, New York.
- Apr. 2009 “The Human-Nature-Other Humans Relationship” (panel presentation). “Visualizing Our Environment” panel on ecocritiques, moderated by Dr. Laurie Naranch at Siena College, Loudonville, New York.
- Sep. 2006 Panel Discussion: A Review of Al Gore’s “An Inconvenient Truth” and Global Warming. Siena, College, Loudonville, New York.
- Apr. 2003 “Ecosystem Management: Environmental Policy Paradigm Change?” Western Social Science Association – Annual Conference. Las Vegas, Nevada.
- June 2002 “Policy Integration: Combining Environmental Policy and Rural Youth Policy.” National Youth Employment Coalition – New Leader’s Academy. Phoenix, Arizona.
- Feb. 2002 “Implementing Ecological Restoration with Youth Corps Under the National Fire Plan.” National Association of Service and Conservation Corps – Annual Forum. Washington, D.C.
- Nov. 2000 “Implementing Biodiversity Conservation with Students.” Environmental Science Association of Ireland - Annual Conference on Biodiversity. Dublin, Ireland.
- Jan. 2000 “Youth Development Policy – A New Approach to New Challenges” (with co-presenter). 11<sup>th</sup> Annual Child Abuse Prevention Conference. Mesa, Arizona.

### Community Activities

**Policy Fellow**, Anam Circle, Albany, NY. 2008 – present. Created public policy think tank working with network of regional researchers and undergraduate and graduate student junior analysts providing applied sustainability policy research for local communities in the Hudson River Estuary and watershed communities in New York. Led team to study the Kromma Kill Creekshed and Onesquethaw-Coeymans Watershed policy issues and generate a policy analysis report.

**Technical Advisory Committee**, Albany County Climate Change Adaptation and Resilience Plan. Albany County, NY. 2022.

**Secretary**, Onesquethaw-Coeymans Watershed Council, Albany County, NY. 2010-2013. Developed tools for community watershed-based analysis, especially environmental governance analysis and models.

**Steering Committee Member**, Environmental Consortium of Hudson Valley Colleges and Universities. 2011-2012. Chaired the Hudson River Research Journal Exploration Committee and served on the Annual Meeting Committee.

**Advisor/Consultant**, Cornell Cooperative Extension Onondaga County, Syracuse, NY. 2004 – 2006. Worked with extension staff to develop youth conservation corps program.

**Chair**, Ecosystem Management Committee (2004 – 2006) and Chair of the Advisory Board (2004 – 2005) for the Nature Center at Alverna Heights, Syracuse, NY. Created ecosystem management and program plan to develop nature center and to conduct environmental education, ecosystem restoration, agroforestry, and organic farming on 200-acre former farmstead. Chaired executive committee and ecosystem management committee, served on finance committee, and developed administrative and governance infrastructure.

**Field Researcher**, Northern Arizona University – Ecological Restoration Institute. Summer. Flagstaff, AZ 2002. Worked on forest research team conducting field research/data collection on forest ecosystem health in the Apache-Sitgreaves National Forest.

**Chair**, New Leaders Academy Structural Changes Workgroup. 2001. Led team of youth policy professionals selected from around the U.S. to participate in professional leadership development program sponsored by the National Youth Employment Coalition. Workgroup analyzed federal youth policy legislation and made formal recommendations for implementation to national, state and local government agencies.

**Member**, Greater Flagstaff Forests Partnership, Flagstaff, AZ. 2000 - 2002. Intergovernmental and community collaborative which developed policy and strategies for implementing forest ecosystem recreation and urban-interface wildfire hazard reduction. Represented the Northern Arizona Conservation Corps.

**Board Member**, Flagstaff Community Foundation, Flagstaff, AZ. 2000 - 2002. Helped provide leadership for a local community foundation and developed philanthropy policies for community initiatives. Served as member of Grants Review Team that reviewed grant proposals and made grant awards to local community organizations.

**Volunteer**, YMCA Earth Service Corps, Flagstaff, AZ. 1999 - 2001. Supervised youth volunteers who provided environmental conservation service work. Led activities involving camping, outdoor skills, tool use, and conservation skills.

**Chair**, Policy and Legislation Committee, Arizona Youth Development Task Force - Arizona Youth Development Initiative, AZ, 1999 - 2002. Led team that analyzed state and federal youth policy legislation and made formal recommendations to state and local agencies. Also served as member of Executive Committee of statewide task force responsible for creating statewide youth policy.

**Volunteer Trail Supervisor**, Maricopa County Parks, AZ. 1996 - 1998. Supervised crews of volunteers building and maintaining trails in county parks. Taught environmental education, tool use, outdoor skills, and trail skills.

**Member**, Youth Leaders Council, Phoenix, AZ. 1995 - 1996. Member of interagency youth and young adult policy and programming council.

**Board Member**, Community Partnership of Phoenix (CPOP), Phoenix, AZ. 1994 - 1995. Served on board that developed, implemented, and oversaw federally funded Community Development program initiatives and established implementation policy.

**Board Member**, Phoenix Comprehensive Community Collaboration Program, Phoenix, AZ. 1994 - 1995. Served on board that developed policy for federally funded community development program initiatives focused on Community Policing, Crime Prevention, and Community Development.

**Team Member**, Phoenix Think Tank Resource Development Team, Phoenix, AZ. 1994 - 1995. Team of collaborating schools and community organizations that developed local community policy and initiatives. Also developed proposals, and secured resources and funding.

**Advisory Board Member**, Maricopa Skill Center, Phoenix, AZ. 1992 - 1994. Served on community college resource board that developed policy.

## **Professional Development and Training**

**ArcGIS for Climate Change Policy Analysis and Scenario Planning using NatureServe VISTA**. PlanIt Forward. January-March 2021

**Leadership Development Program**, State of New York. Summer 2019. Highly selective leadership skills training in public administration leadership, including decision making, problem solving, leading collaborative teams, communication, conflict resolution, project planning, and project management

**Urban Environmental Education**, Cornell University/North American Association for Environmental Education. Fall 2011. Highly selective program to conceptualize new national standards for urban environmental education

**GIS Applications for Natural Resources**, Siena College, January 2011

**Introduction to GIS and Community Analysis**, New Urban Research - Mapping New York Communities, May 2009. (GIS skills workshop)

**Workshop on Interpretive Methodologies in Political Science**, National Science Foundation project at the University of Toronto, Canada. Sept 2009

**Natural History Field Education**, Centers for Nature Education, Camillus, NY. Spring 2004

**Ecological Field Research Methods**, Northern Arizona University – Ecological Restoration Institute. May 2002. Skills training program to set up forest research plots and collect ecological data

**Verde Watershed Research and Education Program Field School**, Northern Arizona University. Summer 2002

**Natural Resources Management for Educators**, University of Arizona, 2001

**New Leaders Academy**, National Youth Employment Coalition, Washington, D.C. and Boston, MA. 2001. Participant in year-long national leadership development program for youth policy leadership. One of only 34 selected out of national pool of applicants.

**Advancing Youth Development**, National Training Institute for Community Youth Work - Academy for Educational Development, Washington, D.C. Spring 2001. Train the trainer certification for youth work.

**Project Learning Tree and Project W.I.L.D.**, Northern Arizona University, 2000

**Supervisors Academy**, Flagstaff, AZ. 2000. Public administration training, including management/leadership skills, supervisory skills, coaching, interviewing, discipline and corrective action, time management, team building/group dynamics/group problem solving and decision making, Equal Employment Opportunity, communication, performance management

**Youth and Young Adult Services**, St. Bernard's Institute, Rochester, NY. 1990 - 1992. Two-year youth and young adult training program with courses in leadership/management, social justice, diversity/multiculturalism, education and outreach, and mentoring/counseling

**Environmental Education for Youth Conservation Corps**, New York State Youth Conservation Corps, Saratoga, NY. 1989. Conservation skills and environmental educator training

**Professional development**, 1990 - 2022. Various professional development workshops in program development and evaluation, risk management for nonprofits, community collaboration, budgeting, web development, strategic planning, volunteer management, grant writing, prospect research, preventing misconduct, facilitation / train the trainer

## Successful Grants

**\$5 Million** US Forest Service – Urban and Community Forest Grant for University at Albany/SUNY Research Foundation for Urban Café Day initiative and creation of the Institute for Transformational and Ecosystem-based Climate Adaptation. Co-wrote successful proposal to implement urban tree planting in disadvantaged communities to adapt to climate-induced extreme heat and flooding 2023-2024

**\$37.5K** Hudson River Estuary Program for “Environmental Health and Justice Initiative: 4-H Earth Clubs (4HEC) at Siena College” 2011

**\$1K** Onesquethaw-Coyman's Watershed Council for GIS field research on watershed issues 2011

**\$2K** Siena College Peace Studies for student-faculty participation in Advocacy Days social justice and environmental justice policy advocacy conference in Washington, D.C. 2009

**\$2K** Siena College Center for Urban Education to fund “4H Earth Club” initiative 2008

**In-Kind Grant** AmeriCorps VISTA for “Environmental Health and Justice Education Initiative” 2007

**\$10K** Friars Fund for youth environmental education and conservation service 2007

- \$3.4K** Siena Summer Scholars Research grant “Environmental Democracy on the Kromma Kill: Developing a Preliminary Model for Community-Initiated Ecosystem-Based Policy and Management” 2007
- \$500K** AZ Governor’s Office for “White Mountain Youth Corps” 2002 - 2003
- \$260K** U.S. Congress (direct allocation) for “Northern Arizona Conservation Corps” 2001
- \$80K** Coconino County for “Northern Arizona Conservation Corps” 2001 - 2002
- \$51K** Northern Arizona University for “Northern Arizona Conservation Corps” 2001
- \$75K** Coconino County for “Northern Arizona Conservation Corps” 2000 – 2002
- \$60K** Coconino County for “Youth Services Programming” 2000 - 2002
- \$43K** Coconino County Parks for “Park Restoration Corps” 2001
- \$10K** AZ Department of Economic Security for “Rural Youth Services” 2000