

## **SELECTED PROFESSIONAL EXPERIENCE:**

### **Research Director – Sustainable Systems Research Foundation**

2019 - Current

Co-founder and project coordinator for a new non-profit policy research group focused on designing and deploying replicable and scalable solutions to a diverse range of sustainable infrastructure, resource, policy, and planning issues.

### **Principal – Convergence Research**

1985 - Current

#### *Resource Policy Modeling and Consulting.*

Analysis and expert testimony on electric and gas utility cost allocation, revenue requirement, infrastructure planning, acquisition, contract, and industry restructuring issues, representing public and non-profit stakeholders in a wide variety of state, provincial, and Federal regulatory, policy, and program development/evaluation processes. Participated in ongoing regional technical advisory panels. Identified, analyzed, and negotiated financing and contract terms for a leading-edge municipal photovoltaic energy installation.

#### *Energy and Water Modeling.*

Statistical analysis, technical training, fluvial geomorphology fieldwork, data collection, data analysis and system modelling, financial and system risk analysis, utility integrated resource planning model development and training, energy resource program design.

#### *Information Services and Online Interface Design.*

Developed presentation protocols and commercial digital training curricula. Principal for design, development, implementation and maintenance of private and non-profit sector websites, online discussion forums and interactive data repositories. Owner and operator of an online services enterprise providing network services to startup businesses and nonprofit organizations.

### **Chief Executive Officer – Chicago Science Group**

2000-2003

Developed and directed the strategy, funding, budgeting, hiring, market positioning, sales force staffing, curriculum development, contract negotiation, and field-testing phases of a new generation of best practice science and mathematics curricula.

### **Policy Director – Northwest Energy Coalition**

1990-1993

Developed and advocated policy positions relating to electric and natural gas resource development and integrated resource planning in the Pacific. Authored numerous briefs, articles and papers relating to regional energy and environmental issues. Provided expert testimony. Principal negotiator in multiple mediation processes. Lead representative and technical advisor for consumer and environmental interests in multiple forums. Managed policy project team.

## SELECTED PROFESSIONAL EXPERIENCE:

### **Senior Policy Specialist – Washington Utilities and Transportation Commission**

1987-1990

Policy analysis related to electric and gas utility least-cost planning and competitive bidding mechanisms. Co-authored a least-cost resource planning model that formed the basis for models currently in use by Washington and Oregon energy utilities. Represented the Commission in initiation of electric and natural gas integrated resource planning in Washington State.

### **Senior Instructional Systems Designer – WICAT Systems**

1986-1987

Project lead for the task analysis, lesson specification, and authoring phases of a 400-hour computer based technical training course for a national air defense command and control system, under contract with Boeing Aerospace Corporation. Coordinated subject matter experts and content developers.

### **Instructional Systems Designer – WICAT Systems**

1984-1985

Project lead for development of a two-year algebra computer-based instruction sequence. Managed authoring and online content teams. Coordinated with system programming team.

### **Legislative Aide – Washington State Senate**

1983

Co-staffer and policy advisor for Senator King Lysen, 31<sup>st</sup> District.

### **Policy Associate – Washington State Energy Office**

1982-1983

Performed site surveys, preliminary engineering, and economic analysis of small hydroelectric sites across Washington State. Authored policy analysis of state and utility energy efficiency programs.

### **Policy Analyst – People's Organization for Washington Energy Resources**

1981-1982

Co-developed policy analyses on behalf of low-income energy consumers in Washington State. Co-authored multiple publications.

### **Co-Editor – RAIN Magazine**

1981

Intern at a highly-regarded national periodical focused on renewable and alternative technology and systems. Edited and assisted in magazine production. Authored multiple reviews and articles for publication.

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## **SELECTED ACADEMIC EXPERIENCE:**

**Evergreen State College**, 1981. BA in Energy Systems.

**University of Washington**, 1991. Graduate coursework in Hydrology and STEM Education.  
Advisors: Derek Booth and Linda Stone.

**Conflict Dispute Resolution Associates**, 1993. Certified Mediator in Public Policy.

**Kennedy School of Government, Harvard University**, 1999. Master of Public Administration.  
Advisor: John Holdren.

**University of California Santa Cruz**, 2011-current. Research Fellow, College Eight/Rachel Carson College.

**University of California Santa Cruz**, 2011-2019. Teaching Faculty and Course Developer, College Eight/Rachel Carson College. Co-founder and core faculty for a new sustainable systems academic minor at UCSC.