

# MICHAEL SHELLY

Environmental/ecological economist at RENEW

## EXPERIENCE

RENEW, University at Buffalo, N.Y.

2017 –

**Environmental/Ecological Economist**

ERM, INC. (reporting to office in) Rochester, NY.

2015-

**Senior Project Manager** (Part time)

Member of the Economics and Decision Sciences Group, which provides economic expertise to ERM's global operations.

Oil Pipeline Socioeconomics

- Acted as a third-party reviewer of the applicant's socioeconomic analysis as part of the State of South Dakota's review of a permit to construct a portion of a multi-state oil pipeline.

Natural Resource Damage Assessment

- Team member supporting the State of California in a court case, assessed the size and value of the recreational fishing activity between Lake Davis and San Francisco Bay.
- Team member supporting an industrial client responding to a natural resource damage claim relating to mercury contamination of a lake in New York State. Refuted the trustees' assertion that the lake could not be stocked due to contamination by showing that the State simultaneously warned that the fish from other lakes was too contaminated to eat while stocking those lakes with fish.
- Team member for an assessment of recreational beach use in southern California, involving aerial counts of beach users from a helicopter.

CANISIUS COLLEGE, Buffalo, NY.

2015 – 2016

**Adjunct Professor**

Environmental Economics, fall semester

DAEMEN COLLEGE, Amherst, NY.

2015 –2016

**Adjunct Professor**

Principles of Microeconomics, fall and spring semesters

ECOLOGY AND ENVIRONMENT, INC., Lancaster, NY.

1992-2014

**Chief Economist**

Rose through the ranks from Senior Consultant to Principal and advisor to senior executives. Chief economist responsible for all international and domestic economic assignments. Project manager for multi-million dollar, multi-year, multi-company contracts involving team members in at least two continents. Main author on numerous reports. Preparer of numerous proposals and Statements of Qualification.

Natural Resource Damage Assessment Litigation Support

- Lead preparer of loss valuation reports for Kuwait's \$3 billion in successful claims for environmental damage caused by Iraq during the 1990-91 Gulf War.

- Project manager of a large multidisciplinary, international team that prepared Kuwait's successful \$109 million Gulf War environmental monitoring and assessment claims.
- Leader of the team that developed the Kingdom of Saudi Arabia's \$18 billion claim for health damages resulting from the Gulf War. Appeared before the UNCC tribunal in Geneva in defense of the claim.
- Reviewer for the Bureau of Land Management's Natural Resource Damage Assessment and Restoration Guidance Manual.
- Author of a literature survey on the biological and chemical impacts of marine coal spills in defense of a major mining company being sued by the government of Colombia for environmental damages.
- Author of a statistical evaluation of house price impacts from naturally occurring asbestos contamination along rivers in Washington State.

#### Health Economics/Litigation Support

- Author of a report on the impacts of smoking on health care costs related to states' multi-billion dollar toxic tort case against the tobacco companies. Used SAS to handle the data, probit analysis to model individual's decision to seek medical care, the negative binomial model to model the number of such events and used multiple regression to model medical costs.
- Author of a report on the health impacts of particulate emissions from phosphate mining and manufacturing in Morocco.

#### Hydrofracking/Environmental Impact Statements

- Co-author of the section of New York State's Environmental Impact Statement for the hydraulic fracturing of natural gas wells ("fracking") that contained estimates of the potential income, jobs and local tax revenues from fracking.

#### Infrastructure/Financial and Economic Analysis

- Completed the financial and/or economic analysis of major infrastructure projects (totaling hundreds of millions of dollars) funded by the World Bank and the Asian Development Bank in China. The projects included natural gas production and distribution facilities, district heating plants, wastewater treatment facilities, water supply projects, a cement plant, and hazardous waste treatment facilities.
- Author of the section of the Tai Lake (near Shanghai) water quality improvement plan that suggested repayment sources for the China Development Bank proposed \$2 billion loan.

#### Climate Change/Financial Analysis

- Estimated the revenues from potential carbon dioxide cap and trade programs for proposed coal-fired plants with carbon capture and sequestration in Jamestown and Lackawanna in New York State and a plant in Pennsylvania.

#### Economic Impact

- Estimated the direct, indirect and induced changes in employment, earnings and economic output due to changes in personnel and aircraft numbers at military bases and for a proposed electricity transmission line linking wind energy sites to the transmission grid.

#### Environmental Plans/Financing

- For the State of Louisiana evaluated the financial viability and relative cost of alternative projects to reduce extraction from the state's five groundwater aquifers.
- Prepared the implementation costs, benefit estimates and timetables, and nominated the responsible implementing agencies, for the Chao Lake (China) water quality improvement plan financed by the Asian Development Bank.

NATIONAL ECONOMIC RESEARCH ASSOCIATES, London, England  
1990-92

**Economic Analyst**

- Worked with National Power, the United Kingdom's then largest electric generator, on market analysis and competitor intelligence.
- Worked with British Rail on industrial structure options following its privatization.

UNILEVER PLC, London, England  
1987-90

**Economic Specialist**

- For the CEO, prepared an analysis of the impact of the creation of the single European market. Monitored the economies of the United Kingdom, India, Pakistan, Bangladesh, Sri Lanka, South Africa and New Zealand.

<b>EDUCATION</b>
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Ph.D., Economics, University of Edinburgh, Scotland.

M.A., Economics, University of Warwick, England.

B.Sc., Economics, Queen Mary, University of London, England.