

Ms. Trabucchi's areas of expertise are corporate finance and economics. As a Principal and Director with Industrial Economics, Incorporated, Ms. Trabucchi is a nationally recognized expert in financial assurance and the design of financial settlement frameworks tailored for the protection of the public trust.

She is an expert in evaluating the financial integrity of business, non-profit and governmental organizations, including financial damages associated with lost profits, property diminution and natural resource damages. She often is asked to apply her expertise in the context of rigorous verification and auditing standards. She regularly consults to public- and private-sector clients, assisting in the design and implementation of financial frameworks to hedge market risk.

Professional Societies

- Member, **AMERICAN INSTITUTE OF CERTIFIED PUBLIC ACCOUNTANTS**, Forensic and Valuation Services
- Director, **MASSACHUSETTS COLLEGE OF ART AND DESIGN**, Foundation Board
- Member, **U.S. EPA'S ENVIRONMENTAL FINANCIAL ADVISORY BOARD (EFAB)**
- Member, **U.S. DOE'S NATIONAL RISK ASSESSMENT PARTNERSHIP (NRAP)**
- Advisory Member, **MGSC SEQUESTRATION TECHNOLOGY TRAINING CENTER (STTC)**
- Advisory Member, **INTERNATIONAL ENERGY AGENCY (IEA)/GREENHOUSE GAS R&D PROGRAMME**
- Peer Reviewer, *International Journal of Greenhouse Gas Control*

Congressional Testimony & Hearings

U.S. SENATE PERMANENT SUBCOMMITTEE ON INVESTIGATIONS, COMMITTEE ON HOMELAND SECURITY & GOVERNMENTAL AFFAIRS. Wall Street Bank Involvement With Physical Commodities. November 2014.

U.S. SENATE COMMITTEE ON ENERGY AND NATURAL RESOURCES. SENATE BILL 699, Department of Energy Carbon Capture and Sequestration Program Amendments Act of 2011. May 2011.

U.S. SENATE COMMITTEE ON ENERGY AND NATURAL RESOURCES. SENATE BILL 1013, Department of Energy Carbon Capture and Sequestration Program Amendments Act of 2009. May 2009.

Hearings before the **U.S. FEDERAL INTERAGENCY TASK FORCE ON CARBON CAPTURE AND STORAGE** established by President Obama on issues related to financial investment, indemnification and financial responsibility. May 2010.

Invited expert on financial risk management related to the deployment of climate mitigation technologies before the **US SENATE ENERGY & NATURAL RESOURCES COMMITTEE** and the **US SENATE COMMERCE, SCIENCE, AND TRANSPORTATION COMMITTEE.** June 2010.

Expert Witness Support

United States / New Mexico Environment Department v. Chevron Mining, Inc., D.N.M., Civ. No. 1:16-cv-00904-WPL. 2017.

Arbona et al. v. Trustees of the Corcoran Gallery of Art CA 0003745B. 2014.

Marilley, Kevin, et al. v. Fish & Game, CA Dept., John McCamman, et al. No. 43151 420 SF2011201820. 2013.

Hackensack Riverkeeper, Inc. v. Honeywell International Inc., D.N.J., Civ. No. 06-cv-0022. 2010.

United States / Philadelphia Housing Authority v. Sun Refining, Atlantic Richfield Refining Company, et al. No. 06-1635. 2010.

Environmental & Recycling Services, Inc. v. Commonwealth of Pennsylvania, Department of Environmental Protection No. 350 M.D. 2005. Marilley, Kevin, et al. v. Fish & Game, CA Dept., John McCamman, et al. No. 43151 420 SF2011201820. 2011.

Selected Engagements

- Providing expert economic and financial analysis in support of settlement negotiations for the State of New York Office of the Attorney General and by extension the National Association of Attorneys General. Financial exposure and mitigation actions at issue span more than 40 states with total funds in excess of \$2.5 billion.
- Providing expert economic and financial analysis, including the design of a long-term environmental trust, in support of settlement negotiations involving the phosphate and nitrogen fertilizer industries for the U.S. Department of Justice and the U.S. EPA. Financial exposure and environmental obligations at issue span properties in Florida, Mississippi, Louisiana, and Texas, with total exposure in excess of \$2 billion.
- Providing expert support associated with the design of a long-term indemnity model of a phosphate fertilizer company in Chapter 11 bankruptcy for the U.S. Department of Justice and the U.S. EPA. Financial exposure and environmental obligations total in excess of \$100 million.
- Providing expert support in a private litigation associated with the lost profit damages realized by claimants arising from damages in the Gulf Coast region.
- Directing a team supporting federal efforts to design financial instruments, including analysis of associated macro- and micro-economic impacts of various expenditure options. Efforts include designing a suite of financial mechanisms applicable to the mining, oil and gas and electric power generation sectors, including analysis of economic impacts to the hard rock mining and electric power sectors.
- Provided expert analysis to the State of California in a litigation case involving the assessment of differential fees and tax expenditures charged to nonresidents for four California fishing permits, licenses and registrations.
- Provided expert analysis in a private, civil litigation case involving alleged environmental contamination in connection with the redevelopment and reuse of waterfront property. Designed a financial indemnity framework to address near, medium and long- investigation, remediation and long-term care of property parcels.

- Provided expert analysis in a private, civil litigation case involving alleged property damages in excess of \$50 million. Derived estimates of economic damages associated with lost profits, property diminution and natural resource damages. Designed companion financial assurance framework, including a long-term environmental trust.
- For myriad public- and private-sector clients directed the review of approximately 1,500 financial instruments. Reviews spanned 40 states, myriad federal agencies, and approximately 1,000 corporate entities for an estimated total face value of \$6.2 billion in financial exposure. Reviews spanned myriad industry sectors, including chemical manufacturing, waste management, energy and utility, air travel, auto manufacturing, oil and gas, pulp and paper, pharmaceutical, mining, lumber and wood products, agricultural, and metals mining. Reviews address myriad statutory requirements and legislative proposals.
- Directed a compliance and improper payments audit related to funds appropriated under the American Recovery and Reinvestment Act. Efforts involved designing and implementing a compliance audit framework to validate and verify management integrity and fiscal accountability associated with \$7.18 billion in activities funded under ARRA. Structured audit verification protocols to align with established GAO Internal Control Standards and OMB ARRA accountability criteria. Audit objectives focused on identifying areas of fraud, waste and abuse with respect to appropriated funds across federally funded programs, including U.S.EPA's multi-billion dollar State Revolving Funds.
- Directed an assessment of the economic impacts associated with the Securities and Exchange Commission's proposed proxy access rule for the CFA Institute. Analyzed the degree to which proxy access reform would be beneficial to market performance, stock performance and board performance.
- Directed a team to design, develop and implement a risk-based probabilistic model (CCSvt) to evaluate the potential financial consequences of CO₂ migration at three candidate carbon capture and storage sites involving coal-fired power plants. Clients include a consortium of funding sponsors from firms in the electric power generation and oil and gas sectors, non-governmental organizations, the Government of Alberta, and the Global CCS Institute.

Selected Publications

Trabucchi, Chiara, Michael Donlan, Vadim Spirt, Scott Friedman and Richard Esposito. "Application of a Risk-Based Probabilistic Model (CCSvt Model) to Value Potential Risks from Carbon Capture and Storage," *Energy Procedia*, Volume 63, 12th International Conference on Greenhouse Gas Control Technologies, GHGT-12 (2014) Pages 7608-7618, doi:10.1016/j.egypro.2014.11.795.

Trabucchi, Chiara, Ellen Fitzgerald, Matthew Orsagh, Robert W. Dannhauser, James Allen. "Proxy Access in the United States: Revisiting the Proposed SEC Rule." CFA Institute. Vol. 2014. No. 9. August 2014.

<http://cfainstitute.org/learning/products/publications/cb/Pages/ccb.v2014.n9.1.aspx?WPID=BrowseProducts>

More, Jeffery, The Honorable Sherwood Boehlert, Ben Harper, Lindende Patton and Chiara Trabucchi. 2012. "Commercialization of Carbon Sequestration Projects; Scaling from Research to Reality." *2012 International Pittsburgh Coal Conference*.

Trabucchi, Chiara, Michael Donlan, Michael Huguenin, Matthew Konopka and Sarah Bolthrunis. "Valuation of Potential Risks Arising from a Model, Commercial-Scale CCS Project Site." Global CCS Institute. June 2012.

<http://cdn.globalccsinstitute.com/publications/valuation-potential-risks-arising-model-commercial-scale-ccs-project-site>

Donlan, Michael and Chiara Trabucchi, Valuation of Consequences Arising from CO2 Migration at Candidate CCS Sites in the U.S., *Energy Procedia*, Volume 4, Proceedings of the 10th International Conference on Greenhouse Gas Control Technologies (GHGT-10) (2011) Pages 2222-2229, doi:10.1016/j.egypro.2011.02.110.

Dooley JJ, C Trabucchi, and L Patton. 2010. "Design Considerations for Financing a National Trust to Advance the Deployment of Geologic CO2 Storage and Motivate Best Practices." *International Journal of Greenhouse Gas Control* 4(2):381-387. doi:10.1016/j.ijggc.2009.09.009.

Trabucchi C, M Donlan, and S Wade. 2010. "A Multi-Disciplinary Framework to Monetize Financial Consequences Arising from CCS Projects and Motivate Effective Financial Responsibility." *International Journal of Greenhouse Gas Control* 4(2):388-395. doi:10.1016/j.ijggc.2009.10.001.

Trabucchi, C., and L.E. Patton. 2008. "Storing Carbon: Options for Liability Risk Management, Financial Responsibility." *World Climate Change Report The Bureau of National Affairs*.

Selected Presentations

Invited Presenter at Greenhouse Gas Control Technologies (GHGT-12) Conference. *Application of a Risk-Based Probabilistic Model (CCSvt Model) to Value Potential Risks from Carbon Capture and Storage*. October 7-10, 2014.

Invited Speaker at *Hydraulic Fracturing Disclosure Laws: Are We Getting the Information We Really Need?* Sponsored by Harvard Law School, Environmental Law Program. 2013-2014 Environmental Policy Speaker Series.

Invited Speaker at 2013 Midwest Geological Sequestration Science Conference. *Financial Assurance 101*. October 2013.

Invited Speaker at *Platts 7th Annual European Carbon Capture & Storage Conference*. January 31-February 1, 2013.

Invited Speaker at *Global CCS Institute International Members' Meeting*. October 2012

Invited Speaker at *Emerging Technologies Committee* sponsored by the U.S. Chamber of Commerce. October 2010.

Invited Presenter at GHGt-10. *Valuation of Environmental, Human Health and Financial Consequences Arising from CO2 Migration at a Candidate CCS Site to Motivate Sound Public Policy and Financial Investment*. September 19-23, 2010.

Invited Expert at *Carbon Capture and Sequestration (CCS) Liability Workshop*. U.S. Senate Energy & Natural Resources Committee & U.S. Senate Commerce, Science and Transportation Committee. June 18, 2010.

Invited Panelist at *American Bar Association Section of Environment, Energy and Resources' Environmental Issues*. June 14-15, 2010.

Invited Expert at U.S. Federal Interagency Task Force on Carbon Capture and Storage's Working Group on Legal and Regulatory Issues. *Design Considerations for Liability Management Related to the Deployment of Carbon Capture and Storage Technologies*. April 2010 (closed hearing), May 2010 (public hearing).

Invited Panelist at *Carbon Capture and Storage: Bridging the Commercial Gap*, sponsored by the International Energy Agency (IEA), the Coal Industry Advisory Board (CIAB), the Carbon Sequestration Leadership Forum (CSLF) and the Global Carbon Capture and Storage Institute (GCCSI). September 2009.

Invited Speaker at U.S. Department of Energy. *U.S. Climate Policy & Carbon Reduction Options*, June 2009.

Invited Speaker at The George Washington University. *GHG Technology, Public Policy and the Law*, April 2009.

Invited Panelist at Harvard Law School Environmental Law & Policy Clinic. *Overcoming Legal and Financial Obstacles to CCS*, March 2009.

Invited Speaker at Energy Insurance Mutual Annual Conference. *U.S. Climate Policy & CCS: Options for Liability Risk Management, Financial Responsibility*, February 2009.

Invited Speaker at 2009 Carbon and Climate Change Conference (CH09), University of Texas. *Liability and Sequestration*, February 2009.

Invited Speaker at International Energy Agency (IEA) CCS Regulators' Network. *CCS: Regulatory Approaches to Address Liability*, January 2009.

Professional Experience

Industrial Economics, Incorporated, 1995-Present

Principal, 2003-Present

Director, 2005-Present

Chief Financial Officer, 2011-2013

The Cadmus Group, 1991-1995