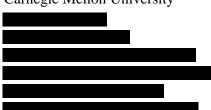
Committee on Energy and Commerce U.S. House of Representatives Witness Disclosure Requirement - "Truth in Testimony" Required by House Rule XI, Clause 2(g)(5)

1.	Your Name: JARED L. COHON
2.	Your Title: CO-CHAIR OF CRENEL PRESIDENT EMERITUS AND PROFESSOR, CARNEGIE MELLON UNIVERSIT
3.	The Entity(ies) You are Representing: ENERGY LABS COMMISSION TO REVIEW THE EFFECTIVENESS OF THE NATIONAL A
4.	Are you testifying on behalf of the Federal, or a State or local government entity? Yes No
5.	Please list any Federal grants or contracts, or contracts or payments originating with a foreign government, that you or the entity(ies) you represent have received on or after January 1, 2013. Only grants, contracts, or payments related to the subject matter of the hearing must be listed. THE WORK OF CRENEL WAS FUNDED FROM A CONORESSIONAL APPROPRIATION FOR THIS PURPOSE
6.	Please attach your curriculum vitae to your completed disclosure form.
Signature:	

JARED LEIGH COHON

CURRICULUM VITAE

Carnegie Mellon University



Position Carnegie Mellon University

University Professor of Civil and Environmental Engineering

University Professor of Engineering and Public Policy

Director of the Wilton E. Scott Institute for Energy Innovation

President Emeritus

Professional Professional Engineer, Maryland Registration No. 11196

Registration Date registered, 07/13/78

Diplomate, Water Resources Engineer, American Academy

of Water Resources Engineers, 2010

Education B.S. (Civil Engineering) University of Pennsylvania, 1969

M.S. (Civil Engineering) Massachusetts Institute of Technology, 1972

Ph.D. (Civil Engineering) Massachusetts Institute of Technology, 1973

Non-Profit and Government Board Memberships

Bilkent University (Turkey) Chair of Advisory Board

Carnegie Corporation

Center for Sustainable Shale Gas Development, Chair

Health Effects Institute

Heinz Endowments

National Academy of Engineering

2015 - Finance Committee

National Research Council

2015 - Board on Energy and Environmental Systems

Corporate Boards

Ingersoll Rand Lexmark International Unisys

Honors and Awards

Hugo Otto Wolf Award, University of Pennsylvania, 1969

NSF Fellowship, Massachusetts Institute of Technology, 1969-1970

Resources for the Future Natural Resources Fellowship, Massachusetts Institute of Technology, 1972-73

Tau Beta Pi, The National Engineering Honor Society

Joan Hodges Queneau Palladium Medal given jointly by The National Audubon Society and the

American Association of Engineering Societies, 1996

Edgeworth-Pareto Award, Multiple Criteria Decision Making Society, 1998

William Metcalf Award, Engineers' Society of Western Pennsylvania, 2006

American Society of Civil Engineers Distinguished Member, 2009

Society of Scholars, Johns Hopkins University, 2010

National Engineering Award, American Association of Engineering Societies, 2011

National Academy of Engineering, 2012

American Academy of Arts and Sciences, 2012

Honorary Degrees

Korean Advanced Institute for Science and Technology, 2012 University of Pittsburgh, 2013 Carnegie Mellon University, 2013

Previous Positions

1968	Construction Inspector, E.I. Conwell	Il and Company, Philadelphia, Pennsylvania
1969	Engineering Assistant, Philadelphia	Water Department, Philadelphia, Pennsylvania
1970-1973	Graduate Research Assistant, De	epartment of Civil Engineering, Massachusetts
	Institute of Technology	
1973-1992	The Johns Hopkins University,	Department of Geography and Environmental
	Engineering	
	Assistant Professor	1973-1977
	Associate Professor	1977-1981
	Professor	1981-1992
	Assistant Dean of Engineering	1981-1983
	Associate Dean of Engineering	1983-1986
	Vice Provost for Research	1986-1992
1977-1978	Legislative Assistant for Energy as	nd Environment, Honorable Daniel P. Moynihan,
	U.S. Senator from New York (on le	ave from Johns Hopkins)
1992-1997	Dean and Professor of Environmental Stud	ental Systems Analysis, Yale University, School lies

1997-2013 President, Carnegie Mellon University

Professional Society Memberships

American Association for the Advancement of Science (Fellow) American Society of Civil Engineers (Distinguished Member) American Water Resources Association Multiple Criteria Decision Making Society

Previous Corporate Board Directorships

American Standard/Trane, 2000-2008 (when Trane was acquired by Ingersoll Rand) Freemarkets, Inc. 2003-2004 (when Freemarkets was acquired by Ariba) Mellon Bank 1998-2007 (when Mellon merged with Bank of New York)

Previous Non-Profit Board Memberships and Professional Activities

Allegheny Conference on Community Development 1997-2013

American Geophysical Union

1977-1984	Congressional Science Fellow Selection Committee (Chair, 1978-1980)		
1977-1984	Subcommittee on Government and Legislative Affairs (Chair, 1978-1980)		
1978-1980	Public Affairs Committee		
1982-1984	Public Affairs Committee		
1978-1982	Water Resources and Environmental Management Committee		
1984-1986	Executive Committee, Hydrology Section		
1984-1986	Budget and Finance Committee		

American Society of Civil Engineers

1983-1985 Executive Committee of the Energy Division (Chair, 1985)

Association of American Universities 1997-2013 (Chair, 2011-2012)

Center for Indoor Air Research

1988-1991 Science Advisory Board, Chair

Connecticut Academy of Sciences

1996-1997 President

Council on Competitiveness 2000-2013

Dietrich Foundation 2011-2014

H. John Heinz, III Center for Science, Economics and the Environment

Homeland Security Advisory Council (Presidential Appointment) 2000-2013

Internet2 2009-2011

IUCN, Commission on Environmental Strategy and Planning 1994-1997

Karlsruhe Institute of Technology International Advisory Board 2008-2010

Maryland Society of Professional Engineers

1988-1989 Vice President, Baltimore Chapter 1989-1990 President, Baltimore Chapter

1990-1991 State Secretary

The Mountain Institute 1994-1997 National Academy of Engineering

	Jacob E. Collon		
2013-2015	Gordon Prize Selection Committee		
National Research C	ouncil		
1986-1987	Chair, Committee on Probabilities of Extreme Floods		
1987-1992	Review Panel for Transportation Research Centers		
1991-1993	Government-University-Industry Research Roundtable: Task Force on Intellectual Property Rights		
1993-1995	Chair, Committee on Measuring and Improving Infrastructure Performance		
2008-2009	Chair, Committee on Health, Environmental and Other External Costs and Benefits of Energy Production and Consumption		
2009-2012	Board on Global Science and Technology		
2012-2015	Chair, Committee on Fuel Economy of Light Duty Vehicles, Phase 2		
2013-2015	Board on Higher Education and Workforce		
National Security Hi	gher Education Advisory Board		
Nuclear Waste Techi	nical Review Board		
1995-2002	Member (Presidential Appointment)		
1997-2002	Chairman (Presidential Appointment)		
Pinchot Institute for	Conservation 1994-1997		
Pittsburgh Cultural T	Frust 2001-2010		
Pittsburgh Life Scien	nce Greenhouse, Co-Chair, 2000-2009		
Pittsburgh Symphony Orchestra			
Pittsburgh Technology Council			
River City Brass Ban			
The Technology Collaborative, Co-Chair 2001-2012			
Team PA Foundation 2011-2013			
Universities Research Association 2010-2013			
University of Pennsy			
1988-1995	Chair, Department of Systems Engineering Advisory Council		
•	rgh, Institute of Politics		
2006-2009	Regional Water Task Force, Chair		
2011-2013	Roundtable, Marcellus Shale Gas, Co-Chair		
U.S. Environmental 1 1984-1987	Protection Agency: Baltimore Integrated Environmental Management Project Chair, Technical Advisory Committee		
U.S. Department of I	· · · · · · · · · · · · · · · · · · ·		
2014-2015	Commission to Review the Effectiveness of the National Energy Laboratories, Co-Chair		
Urban League of Pitt	tsburgh		
World Affairs Counc			
	-		

Editorial Positions

1977-1979	Associate Editor, Water Resources Research
1979-1983	Co-editor, Water Resources Research
1983-1987	International Editorial Board, Civil Engineering Systems
1988-1996	Editorial Board, Hazardous Waste and Hazardous Materials

Publications

Book

Cohon, J.L. 1978. *Multiobjective Programming and Planning*. Mathematics in Science and Engineering Series. Academic Press, New York. (Republished in 2003 by Dover Publications).

Articles in Refereed Journals

- Cohon, J.L. and D.H. Marks. 1973. Multiobjective screening models and water resource investment. *Water Resource Research* 9(4):826-836.
- Cohon, J.L. and D.H. Marks. 1975. A review and evaluation of multiobjective programming techniques. *Water Resources Research* 11(2)
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- Cohon, J.L. and D.H. Marks. 1977. Reply to a comment on "A Review and Evaluation of Multiobjective Programming Techniques." *Water Resources Research* 13(2):693-694.
- ReVelle, C.S., D. Bigman, D.A. Schilling, J.L. Cohon and R. Church. 1977. Facility location: a review of context-free and EMS models. *Health Services Research (Summer):129-146*.
- Houck, M.H. and J.L. Cohon. 1978. Sequential explicitly stochastic linear programming models for design and management of multipurpose multiple reservoir systems. *Water Resources Research* 14(2):161-169.
- Schilling, D.A., D.J. Elzinga, J.L. Cohon, R. Church and C.S. ReVelle. 1979. The TEAM/FLEET models for simultaneous facility and equipment siting. *Transportation Science (May):163-175*.
- Cohon, J.L., R. Church and D. Sheer. 1979. Generating multiobjective tradeoffs: an algorithm for bicriterion problems. *Water Resources Research (October):1001-1010*.
- Houck, M.H., J.L. Cohon and C.S. ReVelle. 1980. Linear decision rule: 6. Incorporation of economic efficiency benefits and hydroelectric energy generation. *Water Resources Research* (February):196-200.
- Cohon, J.L., C.S. ReVelle, T. Eagles, J.R. Current, R. Eberhart and R. Church. 1980. Application of a multiobjective facility location model to power plant siting in a six-state region of the U.S. *Computers and Operations Research* 71(1&2):107-123.
- Schilling, D.A., C.S. ReVelle, J.L. Cohon and D.J. Elzinga. 1980. Some models for fire protection locational decisions. *European Journal of Operational Research Vol.* 5:1-7.
- ReVelle, C.S., J.L. Cohon and D. Shobrys. 1981. Multiple objective facility location. *Systemi Urbani Vol.* 3:319-343.
- Palmer, R.N., J.A. Smith, J.L. Cohon and C.S. ReVelle. 1982. Reservoir management in the Potomac River Basin. *Journal of the Water Resources Planning and Management Division ASCE*

- 108(WR1):47-66.
- Wright, J., C.S. ReVelle and J.L. Cohon. 1983. A multiobjective integer programming model of the land acquisition problem. *Regional Science and Urban Economics Vol.* 13:31-53.
- Schilling, D.A., C.S. ReVelle and J.L. Cohon. 1983. An approach to the display and analysis of multiobjective problems. *Socio-Economic Planning Sciences* 17(2):57-63.
- McGarity, A., C.S. ReVelle and J.L. Cohon. 1983. Analytical simulation models for solar heating system design. *Solar Energy 32(1) (December)*.
- Current, J.R., C.S. ReVelle and J.L. Cohon. 1984. The shortest covering path problem: an application of locational constraints to network design. *Journal of Regional Science* 24(2):161-183.
- Current, J.R., C.S. ReVelle and J.L. Cohon. 1984. The application of location models to the multiobjective design of transportation networks. *Regional Science Review Vol.* 14:1-23.
- Current, J.R., C.S. ReVelle and J.L. Cohon. 1985. The maximum covering/shortest path problem: a multiobjective network design and routing formulation. *European Journal of Operational Research Vol.* 21:189-199.
- Moy, W.S., J.L. Cohon and C.S. ReVelle. 1986. A programming model for analysis of the reliability, resilience and vulnerability of a water supply reservoir. *Water Resources Research* 22(4):489-498.
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- Nafday, A.M., R.B. Corotis and J.L. Cohon. 1988. Multiparametric limit analysis of frames: part II-computations. *Journal of Engineering Mechanics ASCE 114(3):387-403*.
- Current, J.R., C.S. ReVelle and J.L. Cohon. 1988. The minimum-covering/shortest-path problem. *Decision Sciences* 19(3):490-503.
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- 52(1):55-64.
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- Klimberg, R., C.S. ReVelle and J.L. Cohon. 1992. Improving the effectiveness of FDA drug inspection. *Operations Research* 40(5):845-855.
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- Rothley, K.D., O.J. Schmitz and J.L. Cohon. 1997. Foraging to balance conflicting demands: novel insights from grasshoppers under predation risk. *Behavioral Ecology* 8 (5):551-559
- Schmitz, O.J., J.L. Cohon, K.D. Rothley and A.P. Beckerman. 1998. Reconciling variability and optimal behavior using multiple criteria in optimization models. *Evolutionary Ecology* 12 (1):73-94.

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- Committee on Estimating Probabilities of Extreme Floods. 1988. *Estimating Probability of Extreme Floods: Methods and Recommended Research*. National Academy Press. (J.L. Cohon, Chairman)
- Committee on Measuring and Improving Infrastructure Performance. 1995. *Measuring and Improving Infrastructure Performance*. National Academy Press. (J.L. Cohon, Chairman)
- Committee on Health, Environmental, and Other External Costs and Benefits of Energy Production and Consumption. 2009. *Hidden Costs of Energy; Unpriced Consequences of Energy Production and Use.* National Academy Press, (J.L. Cohon, Chairman)
- Committee on the Assessment of Technologies for Improving Fuel Economy of Light-Duty Vehicles, Phase 2. 2015. *Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles.* The National Academies Press, (J.L. Cohon, Chairman)

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Articles in Books and Proceedings

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- *Programming*. North Holland-American Elsevier.
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- Cohon, J.L. 1976. Co-author of four chapters in D.C. Major and R. Lenton, eds., *Applied Water Resource Systems Planning*. Prentice-Hall, Englewood Cliffs, New Jersey.
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- Eagles, T.W., T.S. Margulies, J.L. Cohon and C.S. ReVelle. 1979. Multiobjective regional energy location model: cost versus population proximity tradeoffs. *Proceedings, American Nuclear Society*. San Francisco, November.
- Schilling, D., D.J. Elzinga, J.L. Cohon and C.S. ReVelle. 1980. Design and analysis of location and relocation alternatives in a fire protection system. In: W.G. Vogt and M.H. Mickle, eds., *Modeling and Simulation, Vol. 11*. Instrument Society of America, Pittsburgh.
- Engberg, D.J., J.L. Cohon and C.S. ReVelle. 1980. Multiobjective siting model of a natural gas pipeline system. In: W.G. Vogt and M.H. Mickle, eds., *Modeling and Simulation*, *Vol. 11*. Instrument Society of America, Pittsburgh.
- Cohon, J.L., C.S. ReVelle, S. Ratick and R. Palmer. 1980. Approaches and techniques for resolution of conflict situations in regional water management. *Proceedings of the Conference on Criteria, Conflicts, Uncertainty and Institutions in Regional Water Management*. International Institute for Applied Systems Analysis, Laxenberg, Austria, October.
- Engberg, D.J., J.L., Cohon and C.S. ReVelle. 1980. A multiobjective location model for offshore natural gas transport systems. In: *Coastal Zone 80, Second Symposium on Coastal and Ocean Management*. Hollywood, Florida, November.
- Cohon, J.L., C.S. ReVelle and R.N. Palmer. 1981. Multiobjective generating techniques for risk/benefit analysis. In: Y. Haimes, ed., *Risk/Benefit Analysis in Water Resources Planning and Management*. Plenum Press, New York, pp. 123-134.
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- McGarity, A., C.S. ReVelle and J.L. Cohon. 1981. Solar heating system performance: continuous and finite difference solutions for hourly and daily data. In: *Solar Rising*, the Proceedings of the 1981 Annual Meeting of the International Solar Engineering Society. Philadelphia, May.
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- bargaining games. In: J.N. Morse, ed., *Organizations: Multiple Agents with Multiple Criteria*. Springer-Verlag, Berlin, pp. 296-319.
- Cohon, J.L., C.S. ReVelle, D.E. Shobrys, T.S. Margulies, L.G. Hereford and T.W. Eagles. 1982. Location systems analysis of away-from-reactor spent fuel storage facilities. In: *Transactions of the American Nuclear Society, Vol. 40*.
- Cohon, J.L., T.W. Eagles, T.S. Margulies and C.S. ReVelle. 1983. Analysis of nuclear reactor siting policy using multiobjective programming. In: P. Hansen, ed., *Essays and Surveys on Multiple Criteria Decision Making*. Springer-Verlag, Berlin.
- Current, J.R., C.S. ReVelle and J.L. Cohon. 1983. The maximum covering/shortest path problem: a multiobjective network design and routing formulation. In: *Proceedings of the Fourteenth Annual Pittsburgh Conference on Modeling and Simulation, Vol.* 14:1373-1381.
- Cohon, J.L. 1985. Multicriteria programming: brief review and application. In: J. Gero, ed., *Design Optimization*. Academic Press.
- Wiesner, M.R., J.L. Cohon and C.R. O'Melia. 1986. The cost of contact filtration as a function of the raw water particle size distribution. In: R. Vanbrabant, J. Hermia and R.A. Weiler, eds., *Proceedings of the 4th World Filtration Congress, Part II*, Section of Mechanical Separation and Particle Technology of the Royal Flemish Society of Engineers, Antwerp, and the Flemish Chapter of the Belgium Filtration Society. London, pp. 10.43-10.48.
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- Klimberg, R.K., C.S. ReVelle and J.L. Cohon. 1989. NMIS: a national model for inspection selection with limited resources. In: A.G. Lockett and G. Islei, eds., *Improving Decision Making in Organizations*. Springer-Verlag, pp. 244-253.
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- Cohon, J.L. 1997. MCDM and sustainable development: the case of water resources planning in India. In: M.H. Karwan, J. Spronk, and J. Wallenius, eds., *Essays in Decision Making*, Springer, pp. 294-312.
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Technology and Changes in Valuation. In: W.M. Grayman, D.P. Loucks and L. Saito, eds., *Toward a Sustainable Water Future: Visions for 2050*. American Society of Civil Engineers, pp. 207-216.

Reports

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- Maryland. Three Volumes.
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- Cohon, J.L., C.S. ReVelle, J.H. Ellis, G. Scavone, R. Solanki and J. Caldwell. 1986. Station Ship Requirements for Naval Battle Groups. Phase I, Applied Physics Laboratory, The Johns Hopkins University. September.
- Cohon, J.L., C.S. ReVelle, J.H. Ellis, G. Scavone, R. Solanki and J. Caldwell. 1987. Station Ship Requirements for Naval Battle Groups. Phase II, Applied Physics Laboratory, The Johns Hopkins University, October.
- Cohon, J.L., C.S. ReVelle, J.H. Ellis, J.S. Shih, T. Watanabe and V. Marianov. 1988. Station Ship Requirements for Naval Battle Groups. Phase III, Applied Physics Laboratory, The Johns Hopkins University, September.

Funded Research Activities

- 1972-1973 Vector Optimization, Multiobjective Planning, Massachusetts Institute of Technology, Resources for the Future Natural Resources Fellowship (Doctoral Dissertation Research)
- 1973-1974 Economic Considerations in Power Plant Siting in the Chesapeake Bay Region, The Johns Hopkins University, Contract with Maryland Department of Natural Resources (Participant)
- 1974-1976 Incorporation of Optimal Operating Policy Model into Multi-Model Approaches to River Basin Planning, Research Initiation Grant from the National Science Foundation (Principal Investigator)
- 1975-1976 Design and Analysis of Consolidation and Location Alternatives for the Baltimore, Maryland, Fire Protection System, City of Baltimore (Co-Principal Investigator)
- 1977-1981 Policy Analysis of Reservoir Operation in the Potomac River Basin, Supported by the Office of Water Research and Technology (U.S. Department of Interior), State of Maryland and the Commonwealth of Virginia (Co-Principal Investigator)
- 1979-1980 Multiobjective Location Analysis of Facilities Associated with Offshore Natural Gas Production in the Baltimore Canyon, New Jersey Department of Energy (Co-Principal Investigator)
- 1980-1981 Location Systems Analysis of Away from Reactor Spent Fuel Storage in the Eastern United States, U.S. Department of Energy in Collaboration with the Applied Physics

1982	Laboratory (Co-Principal Investigator) Analysis of the Baltimore City Ambulance System, City of Baltimore (Co-Principal
	Investigator)
1983-1984	Computer Graphics and Multiobjective Programming, IBM (Principal Investigator)
1985-1989	Optimization of Station Ship Requirements for Naval Battle Groups, U.S. Navy in
	Collaboration with the Applied Physics Laboratory

Consulting

1970-1971	Coordinated Municipal Service Systems, Model Cities, Cambridge, Massachusetts.
1972	Solid Waste Management, Urban Systems Inc., Cambridge, Massachusetts.
1972	Water Resource Impacts of Proposed Toms River, New Jersey, Turnpike Extension,
	Environmental Research and Technology, Lexington, Massachusetts, for the New
	Jersey Turnpike Authority.
1974	Review of Water Quality Models, National Commission on Water Quality.
1974	Analysis of Mass Transit Routes, Office of the City Council President, Baltimore,
	Maryland.
1975	Water Quality Modeling of the Potomac River Basin, Interstate Commission on the
	Potomac River Basin.
1975-1976	Energy Facility Siting and Regional Planning for the Northeast United States,
	Brookhaven National Laboratory.
1976-1978	Probable Distribution of Effluent Sources from Energy Supply and Conversion,
	Electric Power Research Institute and the U.S. Department of the Interior.
1977-1983	Executive Secretary, Maryland Power Plant Siting Advisory Committee.
1978-1980	Advisor for Energy and Environment to Honorable Daniel P. Moynihan, U.S. Senator
	from New York.
1979-1980	Central Maryland Health Systems Agency.
1980	Review of Water Resources Models, Office of Technology Assessment,
	U.S. Congress.
1980-1981	Committee on Environment and Public Works, U.S. Senate.
1982	New Jersey Department of Energy.
1982	Committee on Washington Metropolitan Area Water Supply, National Academy of
	Sciences/National Academy of Engineering.
1983-1985	United Nations Project on Water Resource Systems Analysis, Central Water
	Commission, India.
1994	National Defense Center for Environmental Excellence.
1997	Mission Leader for the Review of Environmental Research in China, World Bank.