

Patricia M. DeMarco, Ph.D.

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CURRICULUM VITAE 2020

ACADEMIC CREDENTIALS

- University of Pittsburgh: B.S. Biology 1968
- University of Pittsburgh: Ph.D. Genetics 1971
- Yale University: Postdoctoral Fellowship 1971-1972
- Boston University School of Medicine, Department of Biochemistry: Postdoctoral Research Assistant 1972-1973; Instructor 1973- Biochemical Mechanisms of Mutation
- University of Alaska Anchorage, College of Business and Public Policy: Associate Dean for Administration and Advancement 2003-2006
- University of Pittsburgh, Adjunct Faculty, Department of Geology and Planetary Science, 2007 to 2015
- Chatham University, Senior Scholar, 2012 to present: Adjunct Faculty 2018 to Present.
- Carnegie Mellon University, Visiting Researcher and Writer, Department of Chemistry, 2013 to 2017
- University of Pittsburgh, Adjunct Faculty, Department of Geology and Planetary Science, Environmental Studies Program 2007 to 2015

AWARDS

- 2011. Women Greening the Pittsburgh Region. Women and Girls Foundation.
- 2017 William Freudenburg Lifetime Achievement Award, Association for Environmental Studies and Sciences.
- 2018 Visionary of the Year- PA Interfaith Power and Light
- 2019 Carnegie Science Award- Environment, Carnegie Science Center.
- 2020 Women in Conservation- Lifetime Achievement Award, Penn Future.

EMPLOYMENT HISTORY

Director, Rachel Carson Institute, School for Sustainability and Environment at Chatham University January 2011 to November 2012

Develop and administer programs of education, outreach and research to promote the mission of the Rachel Carson Institute which is: To promote and extend the legacy of Rachel Carson; To build on her commitment to publicly accessible science; and To share her vision of people as part of a sustainable web of life. www.chatham.edu/rachelcarson. Retired December 2012.

Rachel Carson Homestead Association- Executive Director – January 2006 to December 2010 Administer and present programs for the historic birthplace of ecologist and author Rachel

Carson; develop and present educational programs in environmental sustainability and leadership.

Associate Dean for Administration and Advancement, University of Alaska Anchorage, College of Business, and Public Policy - 2003 to 2006 Developed and implemented advancement plan in support of the mission of the College and its accreditation; organized and executed public relations campaign; coordinated administrative support for faculty and student events; taught one course per academic year; supported the Dean's Business Policy Advisory Council; supported distinguished visiting professors and published proceedings of their work; developed and published quarterly Executive Forum business issue roundtables for the Alaska Business Monthly.

Commissioner, Regulatory Commission of Alaska -1999 to 2003.

One of five Commissioners with decision making authority over all certificated utilities and pipelines in Alaska; issued 183 decisions as lead Docket Manager on various regulated matters; served on the National Association of Regulatory Commissions Consumer Affairs Committee. Instrumental in establishing Lifeline/Link up Telephone service for low income rural customers in Alaska.

President, Anchorage Economic Development Corporation -1995 to 1999. Responsible for funding, program planning, administration for private non-profit corporation; Directed all activities of the organization, to promote economic development initiatives within the municipality of Anchorage, including the annual economic forecast for the region; Secured \$1.2 million annual budget from public and private sources; Planned and presented events, trade shows, domestic and international marketing campaigns; Planned and executed state and federal legislative campaigns; Formed alliances with other statewide and local economic development entities.

Director of Marketing, Technology for Connecticut, Inc. - 1993 to 1995.

Coordinated successful \$2.5 million Advanced Research Project Administration (ARPA) grant. Responsible for commercialization assessment for technology demonstration projects, outreach to energy, environmental, marine and transportation technology communities; and corporate communications. (Founder and Secretary of the Corporation as a loaned executive from CMEEC from 1992-1994)

OTHER RELEVANT WORK EXPERIENCE:

- Program Manager for Resource Development, Connecticut Municipal Electric Energy Cooperative (CMEEC) 1989 to 1993.
- Senior Rate Specialist, State of Connecticut, Department of Public Utility Control - 1985 to 1989.
- President, The Energy Roundtable - 1982 to 1985 (Management consulting for energy and environmental policy services) Sold business in 1985 to E Cubed Corporation.
- Senior Policy Analyst, State of Connecticut, Office of Policy and Management -1980 to 1982. Staff liaison to Connecticut Energy Advisory Board.

- Executive Director, State of Connecticut, Power Facility Evaluation Council (PFEC) - 1978 to 1980. (PFEC was renamed Connecticut Siting Council in 1982 with the addition of hazardous waste jurisdiction.

TEACHING EXPERIENCE AND COURSES TAUGHT

- **BA488: Business and Society: Ethics and Stakeholder Management.** University of Alaska, College of Business and Public Policy. 2003-2004
- **ENV 225 Environmental Ethics.** Chatham University. Spring 2007
- **GEOL 1904: Directed Reading in Environmental Policy: Environmental Ethics.** University of Pittsburgh. 2007 – 2011.
- **GEOL 1904: Directed Reading in Environmental Policy: Electricity from Black to Gold-** an overview of energy policy from 1935 to 2005. University of Pittsburgh. 2009-2010.
- **GEOL 1904: Directed Reading in Environmental Policy: The Evolution of the Human Habitat-** Land Use Policy from the 1700's to modern times. University of Pittsburgh. 2011
- **GEOL 1055/56 Science, Ethics and Public Policy:** considering climate change as the topic for public policy in a capstone honors class. University of Pittsburgh, Spring 2013
- **Osher Life -Long Learning Institute-** University of Pittsburgh. The Legacy of Rachel Carson. 2007- 2008: 2016 Climate Conversations
- **Osher Life -Long Learning Institute.** Carnegie Mellon University 2007, 2008, 2009. Rachel Carson's Environmental Ethic and Its Relevance Today; 2016 Climate Conversations
- **Chatham University. SUS 401 Public Policy Decision Making.** 2019 to Present.

PUBLIC SERVICE

Elected to Borough Council of the Borough of Forest Hills PA. Finance Chair 2016-2020; Vice President 20020

Phipps Conservatory and Botanical Gardens, Board of Trustees 2019; Secretary 2020

Battle of Homestead Foundation, Board of Directors 2015, Treasurer 2016 to present.

Allegheny County Health Department, Air Toxics Task Force- September 2010 to 2015

Forest Hills Environment Committee- 2012-2015

PA Early Childhood Education Advisory Council- 2011 to 2015

Women for A Healthy Environment- Leadership Council 2009 to 2015

Pittsburgh Rotary Club, Program Chair 2013-14; Anchorage Downtown Rotary, Secretary of Board of Directors, 2002-03; member of Board of Directors 2001 to 2005; four times Paul Harris Fellow

Anchorage Symphony Orchestra, Treasurer of Board of Directors, Trustee of ASO Endowment Fund 1997 to 2003. Member *Musica Nova* Society 2002 to 2015

PUBLICATIONS (1968-2020)

(note: from 1969 to 1992 publications appear under my married name of Patricia D. Smith)

P.DeMarco. 1968. Technique for feeding chemical mutagens to adult *Drosophila*. *Drosophila Information Service*. 43: 197.

P.D. Smith and H.O. Corwin. 1971. Temperature Shock Induced Specific Visible Mutations at the dumpy Locus of *D. melanogaster*. *Mutation Research*. 13:345-351.

P. D. Smith. 1971. Genetic and Biochemical Aspects of Base Analog Mutagenesis in the Pre-larval Embryo of *D.melanogaster*. University of Pittsburgh. Copyright May 1972.

Doane,W.W, M.M.Kolar, and P.D. Smith. 1973. Purified Alpha-amylase from *D.hydei*. *Research Notes. Drosophila Information Service*. 50:50

F.Gary Toback, Patricia D. Smith, and Leah M. Lowenstein. 1974. Effect of hyperosmolality on renal uridine metabolism. *American Journal of Physiology*. 226(6):1474-1479.

F. Gary Toback, Patricia D. Smith, and Leah M. Lowenstein. 1974. Enhancement of Uridine Uptake in the Kidney Papilla by Urea. *Proceedings of the Society for Experimental Biology and Medicine*. 146:222-224.

F.Gary Toback, Patricia D. Smith, and Leah M. Lowenstein. 1974. Phospholipid Metabolism in the Initiation of Renal Compensatory Growth after Acute Reduction in Renal Mass. *Journal of Clinical Investigation*. 54(1):91-97.

P. D. Smith, Ph.D. Notes of an Energy Watcher. *Connecticut Voter*. May 1977. Energy: A Regulatory Quagmire. *Connecticut Voter*. November 1977.

Patricia D. Smith and Carol Wilson. (eds.) *An Introduction to Energy Sources*. League of Women Voters of Cheshire. (52 page monograph; copyright 1978.)

..... A Report on Bioeffects of Microwaves Associated with Telecommunication Facilities. Report of the Power Facility Evaluation Council. State of Connecticut. July 1979.

..... (Ed.) *What Price Oil: Looking Beyond the Zig-zag Curve*. The Energy Roundtable. October 21, 1982. (Conference Proceedings)

..... (Ed.) *The End of the Pipeline: Natural Gas Supply and Price Prospects for New England*. The Energy Roundtable. May 16, 1983. (Conference Proceedings.)

..... *Perspective on Energy from the Other End of the Pipeline*. Texas A&M University, School of Engineering monograph based on a seminar presented May 15, 1982.

..... *Garbage to Energy*. Quinnehtukqut. *Sierra Club Bulletin*. June 1986.

..... 1986. *Pure Water for a Price: A Challenge for Regulation*. Proceedings of the Fourth National Association of Regulatory Commissioners Biennial Regulatory Information Conference. Volume 2.

..... 1988. A Ten Year Perspective on PURPA: Connecticut's Response to the Section 210 Surprise. Proceedings of the Sixth National Association of Regulatory Commissioners Biennial Regulatory Information Conference. Vol. I, Part 1. Pp. 591- 605.

.....The Regulator at the Fulcrum of Electricity Supply and Demand. American Cogeneration Association. January 18, 1989. New York.

..... Nobody Stands Alone: Working with Non-Utility Support Groups to Address the Special Problems of Low Income Customers. Proceedings of the Annual Meeting of the American Public Power Association. 1992.

..... (Producer) An Introduction to Electric Vehicle Conversions. Video. Connecticut Municipal Electric Energy Cooperative. 1993.

..... 1994. A Twenty Year Perspective on Incentives for Renewable Resource Use. RENEW 94 Conference Proceedings. Northeast Sustainable Energy Association

..... 1994. Ed. Competition in the Electric Utility Industry: The Opportunity to Save vs the Obligation to Serve. Proceedings of a Conference of the Connecticut Energy Advisory Board, December 2, 1994.

.... 2000. State Issues in Electric Industry Restructuring: The Case of Alaska. National Electric Consumers Alliance. Washington D.C. March 8, 2000

... 2000. "Privacy vs. Free Speech: Using Consumer Information for Utility Service Marketing.

titute of Public Utilities. 32ND Annual Conference at Williamsburg. (Representing the Regulatory Commission of Alaska.)
December 6, 2000

....2002. "The Enhanced Lifeline and Linkup Programs in Alaska." Keynote address by Patricia M. DeMarco, Commissioner, Regulatory Commission of Alaska. Alaska Telephone Association 2002 Annual Meeting, Sitka, Alaska, May 22, 2002

... "Walking a Tightrope in the Public Interest." Comments of Commissioner Patricia DeMarco. Regulatory Commission of Alaska. State of Alaska, Senate Judiciary Committee. June 13, 2002

... "Looking beyond the Oil Price Curve." The Alaska Oil Industry Alliance. Anchorage, AK. August 2005.

... "Rachel Carson's environmental ethic – a guide for global systems decision making." *Journal of Cleaner Production*. Vol 140, Part 1, Pages 127-133. January 2017.
<http://dx.doi.org/10.1016/j.jclepro.2015.03.058>

... *Pathways to Our Sustainable Future- A Global Perspective from Pittsburgh*. University of Pittsburgh Press, Pittsburgh. 2017.

Patricia M. DeMarco, 2017. "Moving from awareness to action—acceptance speech for the 2017 William Freudenburg award," *Journal of Environmental Studies and Sciences*, Springer; Association of

Environmental Studies and Sciences, vol. 7(4), pages 469-472, December. DOI: 10.1007/s13412-017-0437-6. <https://link.springer.com/article/10.1007/s13412-017-0437-6> or <https://rdcu.be/b3pUF>

Patricia M. DeMarco. "Protecting the Rights of the Living Earth" Proceedings of the Integrity of Creation Conference: Toward a Healthy Planet. Duquesne University. September 25, 2019 (in Press.)

THE RACHEL CARSON LEGACY CONFERENCE Series.

P. DeMarco organized and presided over eight conferences with advisory teams of 8 to 12 people from academia, business and non-profit organizations for each conference. Video recordings were made of most conferences through Blue Lens, LLC.

Presented from The Rachel Carson Homestead Association:

- **"The Rachel Carson Legacy Challenge in Honor of the Centennial of her Birth."** Rachel Carson Centennial Celebration. John Heinz History Center. Pittsburgh, PA April 20, 2007.
- **"Sustaining the Web of Life in Modern Society"** Carnegie Mellon University, September 29, 2007.
- **"Rachel Carson Spirit and Nature Forum: Faith, Earth Stewardship and Rachel Carson's Legacy"** Chatham University. April 16, 2008.
- **"Green Chemistry: Solutions for a Healthy Economy"**. Introduction and Opening Remarks. **"The Fate of the Next Generation."** Duquesne University, Pittsburgh, PA September 20, 2008.
- **"Our Toxic Body Burden"** Manchester Craftsman Guild and Bidwell Training Center. September 2009.
- **"A Celebration of Biodiversity Honoring Edward O. Wilson."** Carnegie Museum of Natural History, Pittsburgh PA, May 27, 2010.
"Challenging Marcellus Shale: Consequences and Alternatives" Mellon Institute, Carnegie Mellon University. September 24, 2010.

Presented from the Rachel Carson Institute, Chatham University:

- **"Creating Healthy Places to Live, Learn and Play"** Chatham University. October 22, 2011.
- **"Our Planet and Our Health – The Impact of Silent Spring after 50 Years"** and acceptance of National Historic Chemical Landmark for Silent Spring at Chatham University, October 26, 2012.

MAJOR PRESENTATIONS

I present an average of 40 public lectures or other presentations a year, in 2007 there were 85, in 2012, 55. Highlighted here are a representative sample of topics and audiences.

2014 to Present Blog post: Just Transitions to a Sustainable Future. Updates are posted monthly at my web site <https://patriciademarco.com> All major presentations since 2014 are included in this post. Some video recordings of presentations are also on this web site.

...“Rachel Carson: The Science, The Myth and the Message” Pittsburgh Analytical Chemistry Society. January, 2008

... “A Sustainable Food Supply in Harmony with Nature” Farm to Table Conference, Pittsburgh, PA March 26, 2011

... ‘The Wonders of a Natural Garden’ Herb Society of America. June 24, 2011

... “Too Cheap to Meter” presented at Grappling with Nuclear Power Symposium, University of Pittsburgh, October 19, 2011

... “Rachel Carson’s Environmental Ethic and Its Relevance Today” Lessons from Silent Spring at 50 Plenary Panel. International Eco Summit. Columbus, OH. October 2, 2012

... “Building a New Economy: Ten Actions for Sustainable Communities” Pennsylvania Economic Development Association Annual Meeting. April 24, 2012

International Presentations:

...“A Precautionary Perspective on Marcellus Shale” The Open Academy, Gelsenkerchen, Germany, October 11, 2011

... “The Legacy of Rachel Carson and her Relevance Today” International Environmental Counsel. Gelsenkerchen, Germany October 13, 2011

... “Why Organic Matters–The Legacy of Rachel Carson.” Canadian Organic Growers Association. Toronto, Canada April 18, 2012

... “Rachel Carson’s Environmental Ethic- Pathway to a Sustainable Future” UNESCO, Silent Spring at 50 Symposium. Paris, France, December 14, 2012.

Presentations as U.S. Department of State Cultural Diplomat to Russia, October 2013:

- Presentation at the University of Chemical Technology, Moscow.: Topic: *Transition to a Fossil-Free Economy*. 7 Oct 2013
- Presentation at the American Center. Moscow. 7 October 2013. Topic: *Rachel Carson’s Precautionary Principle*
- Presentation at Museum of Soil Science- Moscow. Topic: *Rachel Carson’s Environmental Ethic: Why Organic Agriculture Matters*. October 8, 2013
- Presentation at Ecology & Technology University, Moscow. Topic: *Rachel Carson’s Environmental Ethic: Pathway to a Sustainable Future*. October 8, 2013
- Russian University of People’s Friendship. Moscow. Topic: Preserving Ecosystem Services and Biodiversity. October 8, 2013.
- Presentation to Yekaterinburg Institute of Science. Yekaterinburg. Topic “Economic Value of Ecosystem Services and Biodiversity.” October 11, 2013.
- Presentation to Ural State University, Yekaterinburg. Topic: “A Fossil-Free Energy Economy.” October 11, 2013.
- Presentation to Yekaterinburg Elementary School, Yekaterinburg, Russia. Topic: “*Rachel Carson’s Environmental Ethic- The Sense of Wonder*.” October 12, 2013.

FILM AND RADIO MEDIA

- Patricia M. DeMarco, Executive Producer, Mark E. Dixon, Producer. **“The Power of One Voice- A 50 Year Perspective on the Life of Rachel Carson.** Blue Lens, LLC. 2015. American Conservation Film Festival Award, 2015.
- Kirsi Jansa, Producer, Patricia DeMarco, Sustainability Content Advisor. **“Sustainability Pioneers”** A series of 12 to 15-minute documentaries about sustainability. The series highlights people and communities in the U.S. and in Europe taking bold steps to address the climate crisis and lay a trail towards a more livable planet.
<https://sustainabilitypioneers.com/about/>
- **Radio Programs: “Just Transitions- Labor, Environment and Health” and “The New American Economy”** on The Union Edge- Labor’s Talk Radio Station. 2016- 2018 WKFB AM 770 and 95.3 FM, 97.5 FM and 105.1 FM. Broadcast weekly; 300,000 audience, 10,000 podcast downloads nationwide. (Station went off the air in March 2018.) Selected podcasts of programs available at <https://patriciademarco.com/podcast/>