

GERALDINE KNATZ, Ph.D.

Home:
4181 Country Club Drive
Long Beach, CA 90807
562-427-8165

Contact Info:
knatz@usc.edu
gknatz@charter.net
562-343-0226

Professional Experience

Professor of the Practice of Policy and Engineering University of Southern California, 8/2014 to present

- Teach graduate level courses in Seaport Policy and Management in the Sol Price School of Public Policy and environmental engineering in the Viterbi School of Engineering
- Conduct research on environmental and efficiency technologies for seaports along with emerging trends in worldwide port governance

Executive Director

Port of Los Angeles, 1/2006 to 2/2014

- Chief Executive of the nation's largest container port. Responsible for setting strategic and business vision, all aspects of port management and operations with a focus on responsible port growth and environmental leadership
- Led an organization of 1,000 employees and an annual budget of \$1 billion
- Pursued an agenda that maintained Port's number one status while broadened its role in greening the maritime industry, technology advancement, economic development, workforce development, historic preservation, and meaningful public involvement and transparency in decision-making processes
- Driving force behind the joint Ports of Los Angeles and Long Beach Clean Air Action Plan and Clean Truck Program that reduced air emissions from all port sources over 80% in 5 years.

Managing Director

Port of Long Beach, 3/1999 to 1/2006

- Number two in command at the Port with significant responsibility for assessing strategic issues and recommending policies to the Governing Board for adoption
- Significant interaction with Port's Governing Board, elected officials, Port's international tenants and community groups
- Supervision of the Port's Engineering, Planning, and Properties Divisions, including lease negotiations, strategic planning, master and transportation planning, environmental compliance, project engineering, and construction
- Responsible for administration and budgeting for 150 employees and in-house consultants
- Managed \$2.3 billion capital improvement program, and special port initiatives "Truck Trip Reduction Program" and "Green Port Policy"

Adjunct Professor

American Military University, 2001-2004

- Taught distance education courses on Port and Terminal Operations, and Strategic Intermodal transportation for students on active military service.

Director of Planning

Port of Long Beach, 12/1988 to 3/1999

- Supervision of 14 member division with responsibilities for master and strategic planning, market research, transportation planning, and environmental and regulatory compliance
- Duties included administration, budgeting, staffing and planning, permitting and development of expansion projects, development of technical programs
- Responsible for developing land use plans, transportation and air quality compliance programs, rail and highway master plans, hazardous waste assessment and remediation, and wildlife enhancement projects
- Lead negotiator for Long Beach on Alameda Corridor railroad acquisitions

Adjunct Professor

California State University at Long Beach, Center for Public Policy, 1985-1994

- Taught graduate courses in Seaport Policy and Management, and Waste Management

Instructor

University of Southern California, 1981– 2009

- Taught graduate courses in Environmental Engineering

Education

Doctor of Philosophy, Biological Sciences, 1979

University of Southern California, Los Angeles, California

Masters of Science, Environmental Engineering, 1977

University of Southern California, Los Angeles, California

Bachelor of Arts, Zoology, 1973

Rutgers University, Newark, New Jersey

Continuing Education

Certificate of Completion, Senior Executives in State and Local Government Program, 2012

Harvard University, John F. Kennedy School of Government, Executive Education

Global Logistics Specialist Professional Designation, 2000

California State University, Long Beach, California

Academic Affiliations

- Chairman, Center for the Blue Economy Advisory Council, Middlebury College's Monterey Bay Institute for International Relations, 2014
- Member, National Academy of Engineering

- Fellow, Linnean Society of London, January 2012 to present
- Advisory Council for the Center for Environmental and Engineering Research, California State University at Long Beach, 2005 to Present, Chair 2005 to 2008
- Advisory Council for California State University School of Engineering, 2009- present.

Honors and Awards

- Lifetime Achievement Award, Containerization and Intermodal Institute, September 2014
- Elected to the National Academy of Engineering, 2014
- Alumni Merit Award, University of Southern California, 2013
- Alumni Award, University of Southern California, Scott Astani Department of Civil and Environmental Engineering, 2013
- Special Award in Historical Preservation, Los Angeles City Historical Society, 2012
- Peter Benchley Ocean Award, Blue Frontier Campaign's 2012
- Named Mujer Maritima (Maritime Woman), Regional Hispanic Chamber of Commerce, 2012
- College of Continuing and Professional Education Exceptional Alumni Award, California State University, Long Beach, October 2011
- Ph.D. Science, Honoris Causa, 2009, Maine Maritime Academy
- 2009 Leadership Award, National Association of Women Business Owners-Los Angeles (NAWBO-LA)
- Volunteers of America's 2009 China Friendship Award
- Compass Award, Women's Leadership Exchange West Coast Summit (2008)
- Listed among Newsmakers and Most Influential in the California Fashion Industry by *California Apparel News* magazine (December 2008)
- Named Woman Executive of the Year by the *Los Angeles Business Journal* (May 2007)
- Named one of the "Outstanding Women in Transportation" by the *Journal of Commerce* (2007)
- Named to *Los Angeles* magazine's "Power List" of L.A. Influentials (December 2006)
- Named one of "The West 100," *Los Angeles Times Magazine's* list of the most powerful people in Southern California (August 2006)

Professional Affiliations

- Board Member California Ocean Protection Council, Appointed by Governor Schwarzenegger, reappointed by Governor Brown, 2007 to Present
- Chair, World Port's Climate Initiative, 2009 to Present
- President, International Association of Ports and Harbors (IAPH), 2011 to 2013
- Member, U. S. National Ocean Council, Governance Coordinating Committee, 2011 to Present
- Chair, Curriculum Committee, American Association of Port Authorities, 2010 to 2012
- National Associate, National Research Council, National Academies, 2006 to Present
- Public Trustee, Academy of Coast, Ocean, Port and Navigation Engineering (ASCE), 2009 to 2012
- Member, Science Advisory Board, National Oceanic and Atmospheric Administration, 2006 to 2010
- Chair, National Academy of Sciences' Marine Board, 2005 to 2006
- Member, Scientific Advisory Board to the U.S. Ocean Commission, 2002 to 2004
- Chair, National Sea Grant College Program Review Panel, Appointed by the Secretary of Commerce, 1999 to 2007
- Member, Department of Homeland Security Science and Technology Advisory Committee, 2006
- Vice-Chair of California Ocean Science Trust, 2004 to 2007
- IAPH Representative to the London Convention, international maritime treaties at the United Nations' International Maritime Organization, 1997 to Present

- Board Member, Alameda Corridor Transportation Authority 2006 through 2013
- 1st Vice President, International Association of Ports and Harbors, 2009 to 2011
- ENO Transportation Foundation Board of Advisors 2008 to 2011
- Chair, American Association of Port Authorities, 2008 to 2009
- Chair, Environment Committee, International Association of Ports and Harbors, 1997 to 2009
- Chair, Harbors, Navigation and Environmental Committee, American Association of Port Authorities, 1997 to 2000

Distinguished Lectures

- Aspen Institute Congressional Program, Rising Trade, Shifting Ties, Panama City, February 2015
- Linda Hall Library, Big Ship Ready, the Post-Panamax Era, May 2014
- Rutgers University for Faculty Advancement and Institutional Re-imagination (RU FAIR) National Science Foundation Lecture Seminar, "From Copepods to Containerships: dealing with the BIG and small in Los Angeles Harbor, 2010.
- Thomas B. Deen Lecture Distinguished Lectureship, "Local Seaport Initiatives Driving International Policy," Transportation Research Board, 2009
- First Marc J. Hershman Keynote Address, The Coastal Society, 2008
- Marie Northrup Lecture, "The Treasures of Los Angeles", 2008

Publications

Knatz G., (2016). "Early women scientists of Los Angeles Harbor," *Bulletin Southern California Academy of Sciences*, 115(2), pp. 98-111.

Knatz, G., (2016). "The Marine Biological Laboratory at Terminal Island, Los Angeles Harbor," *Bulletin Southern California Academy of Sciences*, 115(2), pp.84-97.

Knatz, G., (2016) "How competition is driving change in port governance, strategic decision-making and government policy in the United States," in *Research in Transportation Business & Management*, available online August.

Knatz, G., (2016) "Competition between the Ports of Los Angeles and Long Beach", in J-P Rodrigue (eds) *The Geography of Transport Systems*, <http://people.hofstra.edu/geotrans/eng/ch4en/appl4en/ch4a2en.html>.

Knatz, G., (2016). Seattle-Tacoma alliance exemplifies changes in port strategy, *Journal of Commerce Annual Review and Outlook*. Available from <http://www.joc.com/aro/seattle-tacoma-alliance-exemplifies-change-port-strategy>.

Giuliano, G., Knatz, G., Hudson, N., Sys, C., Vanelander, T., & Carlan, V. (2016). Decision-making for maritime innovation investments: The significance of cost benefit and cost effectiveness analysis. University of Antwerp. Available from <http://anet.uantwerpen.be/docman/irua/59774f/131867.pdf>.

Hirahata, N. and Knatz G. (2015). *Terminal Island, Los Communities of Los Angeles Harbor*, Angel City Press and the Port of Los Angeles, 276pp.

Knatz, G., (2014). *Long Beach's Los Cerritos*, Arcadia Publishing, Charleston, South Carolina.

Knatz, G., (2013). Looking Beyond Cargo and Cruise Ships: Promoting Academic Marine Research and Clean Technologies as an Economic Development Strategy for Ports, *Coastal Management*, 41:314-326.

Knatz, G., (2012). The Harbour Master and the Environment. Chapter 10 in *The Work of the Harbour Master*, 3rd edition, The Nautical Institute, London.

Knatz, G., (2011). The Route-to-Carbon Footprint Connections, Examining Greenhouse Gas Emissions and Alternate Routings, *Marine Technology*, July, pp. 47-51.

Knatz, G., (2011). The Expansion's Market Impact (Opinion on how the expansion of the Panama Canal could affect cargo routing), *Marine Technology*, July, pp. 8-9.

Knatz, G., (2009). Local Seaport Initiatives Driving International Policy, Eliminating the Effects of Air Pollution and Drawing up Green Prints for Responsible Growth, *Transportation Research Record, Journal of the Transportation Research Board*, No. 2100, pp. 5-11.

Knatz, G., (2006). Clean Growth, *CIP Publication de la Comision Interamericana de Puertos*, Organization of American States, Vol. 6: 28.

Knatz, G., (2006). National Port Planning: A Different Perspective, *Transportation Research Record, Journal of the Transportation Research Board*, No. 1963, pp. 52-55.

Knatz, G., (2005). The Last Word (Editorial on why ports should not wait on International Treaty to address air emissions), *Ports and Harbors Journal*, December.

Knatz, G., (2005) Ironing out Emissions, *Bunkerspot*, Vol. 2 No. 5, pp. 44-45.

Knatz, G., Wittkop, D., & Nye, L., (2001). The Port of Long Beach Mega-Terminal Development Programme, *Port Technology International*, Summer Edition, pp. 173-176.

Knatz, G. & Webber, B., (1991) Environmental Assessment in the PRC: Third Phase of the Qinhuangdao Coal Port, *Coastal Management*, Vol. 19(3), pp. 343-356.

Knatz, G., (1989). The State Archives at Marburg and Speyer, *German-American Genealogy*, Fall, pp.20-22.

Knatz, G., (1989). Planning for the 21st Century – Long Beach and Los Angeles Harbors. *Coastal Zone*, Vol. 89, pp. 142-152.

Knatz, G., (1987). Offsite Habitat Mitigation Banking: The Port of Long Beach Experience. *Coastal Zone*, Vol. 87, pp. 142-152.

Wiebe, J., Webber, B., & Knatz, G., et al., (1987). Environmental Guidelines for Coal Port Development, United Nations Environmental Program, Regional Office for Asia and the Pacific, Bangkok, 215 pp.

Hayden, P., Knatz, G., & Buck, B., (1986). Development of a Microcomputer Based Model to Assess Air Pollutant Emissions from Marine Vessels, *Proceedings of the 79th Meeting of the Air Pollution Control Association*, Minneapolis, Minn., June.

Knatz, G., (1986). Temporal Distributions and Reproductive Patterns of Harpacticoid Copepods from Los Angeles-Long Beach Harbors, *Journal of Crustacean Biology*, 6(1): 79-88.

Knatz, G., et al., (1985). Port Vessel Emissions Model: A Computer Model for Calculating Vessel Air Pollutants, MARAD Document No. MA-PORT-830-85031, 3 Volumes.

Knatz, G., (1985). A Port Solves Environmental Problems, *Journal of Environmental Health*, Vol. 47(5), pp. 233-240.

Knatz, G., (1983). Risk Management: A Tool for Impact Assessment and Siting of Hazardous Material Handling Facilities in Ports, *Proceeding of the Association of Environmental Professionals Annual Conference*, "Environmental Management: An Industrial Perspective," April.

Dawson J. and Knatz, G., (1980). Illustrated Key to the Planktonic Copepoda of San Pedro Bay. *Allan Hancock Foundation Technical Report*, Number 2: 106pp.

Knatz, G., (1978). Succession of Copepod Species in a Middle Atlantic Estuary, *Estuaries (Chesapeake Science)*, 1978, 1(1): 68-72.

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