

Faculty Curriculum Vitae Jan 2022

NAME: Dr. Kathleen A. Garland

POSITION/TITLE: Sr. Lecturer, Environmental Management

OFFICE ADDRESS: 2700 Bay Area Blvd, Houston, TX 77058

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WORK EMAIL: garland@uhcl.edu

EDUCATION

Penn State University

Ph.D. Geology 1989

The Origin, Emplacement, and Deformation of the Crete de la Taillante Oceanic Complex, Queyras, Western French Alps.

L'Université de Bretagne Occidentale

Diplôme des Etudes Approfondies Océanologie et Géodynamique 1984

Preliminary Geological Map of the Crete de la Taillante, Queyras, Western French Alps

Mention: très bien

Penn State University

B.A. General Arts and Sciences/B.S. Earth Science, summa cum laude 1982

Bachelor's Thesis: The Origin of the Spring Line on Tussey Ridge, Centre County, PA

AWARDS

Two-time Graduate School Fellow, Bourse Chateaubriand (French Gov. Fellowship), and graduate teaching awards. 1982 –

1989

PhiBetaKappa, PhiKappaPhi, National Merit Scholarship, Gulf Scholarship, Penn State Alumni Memorial Scholarship 1977 –

1982

TEACHING EXPERIENCE

University of Houston-Clear Lake

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Sr. Lecturer, Environmental Management Program, College of Business 2017-present

Lecturer, Environmental Management Program, School of Business 2009-Jan 2017

Awards: UHCL Outstanding Lecturer: 2015

Courses taught include: graduate: environmental impact assessment, environmental risk management, managing contaminated sites, graduate seminar in environmental management practices, coastal resilience, oil and hazardous materials spills, foundations of sustainability; undergraduate: environmental management foundations, pollution control technology, environmental impact assessment

Service highlights: Faculty Senate (2020-22), SACSCOC Subcommittee Chair, BUS Graduate Research Assistantship Selection Committee Chair, CPHS BUS alternate, Speaker Selection Subcommittee, Galveston Historical Foundation 2016; Grant Reviewer, NY Sea Grant 2015; COB representative to Academic Honesty Council; COB Faculty Representative to the Student Conference for Research and the Creative Arts; UHCL Common Reader Committee; UHCL Foundations of Excellence Roles and Purposes Committee, co-chair 2015-16; UHCL Assurance of Learning Committee for BUS, 2015-2017, faculty co-chair

Participating Adjunct, Environmental Management Program, School of Business 2005-2009

Developed new syllabi and course materials, both face-to-face and online, for topics including: US and international environmental assessment statutes and processes, social and cultural issues in environmental management, risk assessment, case studies in large-scale environmental problems, analyzing and solving multidisciplinary environmental problems, quantitative

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methods in environmental management.

PROFESSIONAL EXPERIENCE

Syntactics

Sole proprietor

2000 –

2003

Established consulting practice in language arts, communication strategies, and special environmental projects. Projects include: litigation support and preparation of jury presentations; communications management for engineering firm; design of inventory control system for remedial equipment at State of NM; business development consulting and production of publications for small businesses; economic development assistance for City of Espanola; Storm Water compliance for smaller cities; environmental compliance for schools; and others

Environet, Inc.

Senior Environmental Project Manager

1998 –

2000

Permit team leader for several mining projects in Arizona, New Mexico, and Texas, working with NEPA, Endangered Species, NHPA, Clean Water Act, Clean Air Act, RCRA, CERCLA, and TNRCC regulations; project leader and report author for multi-contractor team on USAID project on mining in the Andes; regulatory liaison with TNRCC, USFS, BLM, USFW, and EPA; Acid Rock Drainage Specialist

NM Energy, Minerals and Nat. Resources Dept.

Director, Mining and Minerals Division

1995-1998

Led division of state government that regulates mining and mine reclamation. Oversaw four programs, 38 staff, \$3.7 million budget. Implemented newly developed state mining regulations; presiding officer at numerous evidentiary and public hearings on permit matters; department lobbyist to State legislature on mining issues; trained as mediator for employee and community conflicts

NM Environment Department

Manager, UST Reimbursement Program

1993-1995

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Created new program to manage and process reimbursement claims for remediation of contamination from leaking underground storage tanks. Hired and trained 7 staff. Reduced paperwork by 70%. Conducted internal audit of claims, resulting in \$80,000 in reclaimed costs.

Project Manager, UST Bureau

1992-1993

Case manager for 36 contamination sites regulated under state-delegated RCRA program. Provided technical and regulatory advice and assistance to landowners with contaminated sites. Reviewed and responded to consultant reports on investigation and remediation of sites. Advised legal and inspection sections on enforcement actions, site conditions, and preferred courses of action.

Chevron, USA

Development Geologist

1988-1992

Developed new prospects for increasing production in existing oil fields, including new wells and workovers of existing wells. Conducted offshore well logging oversight. Assisted with information gathering and organization for sale of fields. Conducted research into log responses in unusual sedimentation conditions.

SELECTED SPECIALIZED TRAINING

Basic Conflict Resolution (40-hr): NM Energy and Minerals, 1996

Advanced Mediation (40-hr): NM Energy and Minerals, 1997

Family Mediation (20-hr): Center for Dispute Resolution, Santa Fe, NM, 1997

Language of Mediation (8-hr): Bernalillo Co. Metro Court, 1998

Reconciliation and Peacemaking (8-hr): Bernalillo Co. Metro Court, 1998

EPA Storm Water Compliance for Small Communities (20hr), New Orleans, 1999

Professional Geologist Nonresident License, British Columbia, 1999-2001

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Coastal Community Resilience Index Facilitator
Certification Training, Biloxi, MS, Feb. 2011
Introduction to Green Engineering for NASA (20-hr);
Stennis Space Center, MS, January 2012

RESEARCH GRANTS

2021 IHAPS Grants

“Strategic Conservation Management Planning for the Matagorda Bay Estuary System: Assessing Community and Stakeholder Attitudes”: Kathleen Garland, PI; Marc Mokrech (CSE), co-PI; William Balboa, Exec. Director Matagorda Bay Foundations, Co-PI and ENVR MS Student; granted awarded Dec. 2021

“Sustainable-Stories International Film Fest”; Michael Brims, PI, and Kathleen Garland, Co-PI; awarded Dec. 2021

“Building Sustainable Education and Research Partnerships Abroad”: Maria Curtis, PI, Gina Moreno, and Kathleen Garland, Co-PIs; awarded Dec. 2021

“Scalable Eco Data Visualization with AI & IoT”: Liwen Shih, PI, Kathleen Garland, Collaborator; awarded Dec. 2021

“Economic Feasibility of Mitigating Methane Emissions by Supplementing Cow Feed With Seaweed”: Oscar Lazaro and Sarah Bingham, Co-PIs (students), Trish Trubl (CSE) and Kathleen Garland, Faculty sponsors. Awarded Dec. 2021

2016 Co-PI: RESTOREACT Grant Application with TAMU, “Web-based spatial decision-support tools for wetland management on the Texas Coast,” \$675,000, submitted Sept. 2016, not awarded.

2015 Faculty Research Support Award for Sustainable-stories.org, a video web portal project with Michael Brims

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2012 Faculty Research Support Award for continued resilience research on the Upper Texas Coast. Grant supported one RA.

2011 Faculty Support Research Award for continued resilience research on the Upper Texas Coast. Grant supported one RA.

2010-11 Co-PI on research grant from Environmental Institute of Houston (EIH) to create a Community Resilience Handbook for the Upper TX Gulf Coast. Grant supported one RA.

2007-8 Co-PI on research grant from Environmental Institute of Houston (EIH) to research and review TX and US certification structures for professional geologists. Grant supported one RA.

2005-6 Co-PI on grant from EIH to conducted research in the area of public participation in the NEPA process in Southeast Texas. Grant supported one RA.

PUBLICATIONS

Schmidt, Deanna, Garland, Kathleen A, and Hodde III, Henry H. "Challenges in Damage Assessment: Improving Data Collection and Management following Disaster, Texas after Hurricane Ike." In: Disaster and Emergency Management: Case Studies in Adaptation and Innovation: Volume 4: Response. Chapter submitted March 10, 2017. Elsevier.

Schmidt, Deanna, Garland, Kathleen A, and Quebedeaux, Liliya Kasatkina. "Resilient Recovery Strategies: Lessons from the Local Nonprofit Sector following Hurricane Ike." In: Disaster and Emergency Management: Case Studies in Adaptation and Innovation: Volume 5: Recovery. Jean Kush and Jane Kushma, Eds. Proposal accepted June 24, 2016; Chapter Submitted October 15, 2016. Elsevier.

Zhang, Zhaofang, Zhou, Jing, Schmidt, Deanna, and Garland, Kathleen "Sustainable Campus Landscapes in the United States and China: A Comparative Analysis." The Geographical Bulletin, 2016 57: 41-61.

Schmidt, Deanna, and Garland, K.A. Public-Private-Nonprofit Partnerships for Resilience. HazNet: The Magazine of the Canadian Risks and Hazards Network, 2015 7(2), p. 18-19.

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Schmidt, Deanna, and Garland, K.A. "Bone Dry in Texas: Resilience to Drought on the Upper Texas Gulf Coast." *Journal of Planning Literature*, 2012 27(4), p.434-445.

TECHNICAL REPORTS

Garland, Kathleen A. "The San Jacinto River Waste Pits Superfund Site: An Assessment of Remedial Options for Sites with Dioxin-contaminated Sediments with Implications for Remedy Selection at the San Jacinto Site." Prepared for Texans Together Education Fund, Harris Co., TX, March 2015.

OTHER

Bayou City Eco-Almanac, "Swallows," accepted to the Wild and Scenic Film Festival, January 25-26, River Oaks Theater, sponsored by Citizens Environmental Coalition.

Bayou City Eco-Almanac, a Video Collaboration with UHCL Digital Media Studies and Armand Bayou Nature Center, 2016. <http://www.abnc.org/video-gallery.html>

THESIS COMMITTEES

William Balboa: Strategic Conservation Management Planning for the Matagorda Bay Estuary System: Assessing Community and Stakeholder Attitudes; To be submitted August, 2022. Kathleen Garland, Chair, Marc Mokrech and George Guillen, members

Zahra Sadegh: Coastal Vulnerability and Resilience on the Coast of Iran: A GIS Analysis of Land Cover and Mitigation Potential. To be submitted May, 2016. Dongmin Sun, Chair, Mustafa Mokrech and Kathleen Garland, members

Liliya Kasatkina Quebedeaux: Planning for Disaster Recovery and Resilient Communities with Faith-based and Secular Nonprofit Organizations. Submitted December, 2013. K. Garland, Chair

Henry Busch Hodde, III: The Damage Assessment Process: Evaluating Coastal Damage Assessments in Texas after Hurricane Ike. Submitted December, 2012. K. Garland, Chair.

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PRESENTATIONS

Garland, Kathleen A. "Disaster Response and Recovery: The role of faith-based and secular nonprofit organizations." Webster Presbyterian Church Environment and Ethics Seminar Series, October 30, 2016.*

Garland, Kathleen A. "The San Jacinto River Waste Pits Superfund Site: An Assessment of Remedial Options for Sites with Dioxin-contaminated Sediments with Implications for Remedy Selection at the San Jacinto Site." Press Conference, March 10, 2015 Houston Public Library Highlands Community Meeting, April 8, 2015, Highlands, TX*

EPA Open House on the San Jacinto River Waste Pits, April 30, 2015 Channelview, TX Texas Association of Environmental Professionals, August 20, 2015, Houston, TX

Garland, Kathleen A., Schmidt, D., and Quebedeaux, L. K. "Building Community Resilience." Galveston Historical Foundation Resilience Conference, Galveston, TX, October 8-9, 2014.*

Garland, Kathleen A., Schmidt, D., and Hodde, H. B. "The Rapid Damage Assessment Process: Putting Together the Numbers after a Coastal Storm." Bays and Bayous Symposium 2012, Biloxi, MS, Nov. 14-16, 2012.*

Garland, Kathleen A., Schmidt, D., and Hodde, H. B. "The Social and Natural Sciences: Necessary Partners for Creating Resilient Coastal Communities." Western Social Sciences Assoc. 54th Annual Conference, Houston, TX, April 11-14, 2012.*

Schmidt, Deanna, and Garland, K. A. "Resilience on the Upper Texas Gulf Coast: Coping with Insecure Water Supplies." Western Social Sciences Assoc. 54th Annual Conference, Houston, TX, April 11-14, 2012.*

Hodde, Henry B., Garland, K. A., and Schmidt, D. "Creating Resilient Coastal Communities." Western Social Sciences Assoc. 54th Annual Conference, Houston, TX, April 11-14, 2012.*

Resilience Issues on the Upper Texas Coast. Panel Discussion, CZ 2011, Chicago, IL, July 2011. Convener: K. Garland

Garland, K. A., Gossett, L. B. "Professional Geoscientist and Environmental Professional Licensing: Professionalism or Opportunism?"*

In Proceedings of the 2008 Annual NAEP/AEP Conference, San Diego, CA, March 2008.

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Garland, K. A., Gossett, L. B., Hazur, H. "Public Participation in the NEPA Process in Southeast Texas."*

In Proceedings of the 31st Annual Conference of the
National Assoc. of Environmental Professionals,
Albuquerque, NM, April 2006

*indicates presenter

LANGUAGES

English – Native language

French – Native speaker fluency

SELECTED MEMBERSHIPS AND LEADERSHIP POSITIONS

La Porte Citizens Advisory Council, UHCL representative, 2016 to present.

Texas Association of Environmental Professionals, Houston, TX (Board Member,
2007-2009, Secretary, 2016-2021)

Board Member, Northern New Mexico Citizens Advisory Board (CAB) to Los Alamos
Nat'l Lab, Los Alamos, NM 2001-2002

State-wide Camp Director, Rotary Youth Leadership Award Program (Girls), New
Mexico, 2000-2001

President, Santa Fe Centro Rotary Club, 1995.