Renowned leaders in advancing knowledge of the environment and coast

May 2017
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<th>Intellectual Capital</th>
<th>Leadership</th>
<th>Workforce</th>
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<td>CC&amp;E provides scientific data that serve as the foundation for understanding critical coastal and environment challenges.</td>
<td>CC&amp;E’s faculty is highly-awarded and renowned for their expertise and collaboration locally, regionally, nationally, and internationally.</td>
<td>CC&amp;E provides workforce solutions as students understand the balance between social and natural sciences and use multiple disciplines to solve problems.</td>
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Examples of the many books written by CC&E faculty

CC&E is at the nexus of coastal issues in North America and around the world
Global Relevance of CC&E

River Deltas Support Life

- Over 500 million people, including 2 million Louisianans, live in the world’s river deltas.
- Deltas provide water, transportation of people and goods, recreation, soil for agriculture, and more.
- Many deltas, including the Mississippi River delta, are experiencing land loss and diminishing ecosystems and their goods and services.

Essential for our Economy

- Over 45% of U.S. petroleum refining capacity and 51% of U.S. natural gas processing plant capacity is located along the U.S. Gulf coast.
- Sixty percent of all grain exported from the U.S. is shipped on the Mississippi River through the Ports of New Orleans, Baton Rouge and South Louisiana.
- Agriculture from the Gulf basin accounts for 92% of the nation's agricultural exports, 78% of the world's exports in feed grains and soybeans.

A Louisiana Challenge, a Global Concern

- The challenges of the river deltas apply to ALL who depend on their waterways, not just those living in the deltaic zones.
- Future coastal and environmental challenges will also include sea level rise and increased severity and duration of extreme weather events.
Global Reach

Research & Collaboration

• CC&E is involved in research and collaborative efforts on every continent.

• Deltas around the world are experiencing similar problems as the Mississippi Delta. CC&E studies how other regions are adapting to climate and environmental change.

Students

• The College attracts a high number of students from countries such as China, Iran, India, Canada, Ecuador, Haiti, Honduras, Korea, Turkey, and the Ukraine.

Faculty

• Beyond the U.S., CC&E faculty hails from Croatia, Turkey, Mexico, Poland, India, China, and Hong Kong.

• In addition to English, CC&E faculty is fluent in Bengali, Cantonese, Croatian, French, Hindi, Italian, Mandarin, Polish, Spanish, and Turkish.
Degree Programs

• B.S. in Coastal Environmental Science
  Concentrations:
  Applied Coastal Environmental Sciences
  Environmental Health
  Environmental Science Research
• M.S. in Environmental Sciences
• M.S. in Oceanography and Coastal Sciences
• Ph.D. in Environmental Sciences
• Ph.D. in Oceanography and Coastal Sciences
• M.S. in Coastal & Ecological Engineering, offered jointly with the College of Engineering
• Minors:
  Environmental Sciences
  Environmental Toxicology
  Oceanography and Coastal Sciences
  Wetland Science and Management (graduate only)
CC&E has one of the few undergraduate programs in the nation that integrates oceanography and environmental sciences.

The college has a 3:1 undergraduate student-faculty ratio.

CC&E’s undergraduate degree, Coastal Environmental Sciences (CES), is a fast-growing program at LSU.

Of CES’ graduates:
- 49% attend graduate school
- 35% work in state & federal government agencies, environmental firms, oil industry, utility companies, analytical labs, and research labs
- 10% attend professional schools (law, medicine, veterinary, and public health)

CC&E graduates have been accepted at prestigious universities such as Harvard, Columbia and Tulane.

CC&E graduates are immediately ready for the workforce upon graduation. To date, 100% of CES graduates gain employment or pursue additional degrees within two months of graduation.
Employers of CC&E Graduates

State & Federal Agencies • Environmental Firms • Oil Industry • Utility Companies Analytical Labs • Research Labs • Museums

- Aclima
- BASF
- Bureau of Ocean Energy Management
- City of Farmington, MI
- CK Associates
- Conestoga-Rovers & Associates
- Crisp Analytical Labs, Inc.
- Dow Chemical (Plaquemine)
- ExxonMobil (Gonzales)
- Florida Fish and Wildlife Conservation Commission
- Florida Water Management District
- GE Power & Water (Houston, TX)
- General Engineering & Environmental Companies
- Groundwater & Environmental Services, Inc.
- Hawaii Dept. of Land and Natural Resources
- Jacobs Technology at Michoud Assembly Facility (New Orleans)

- Kinder Morgan (Lakewood/Denver, CO)
- La Dept. of Environmental Quality
- LA Dept. Wildlife & Fisheries
- Louisiana State University
- National Marine Fisheries Services
- National World War II Museum (New Orleans)
- Olin Chlor Alkali Products (St. Gabriel)
- SATCO Inc.
- T Baker Smith (Florida)
- Texas Parks and Wildlife Department
- United States Geological Survey
- U.S. Environmental Protection Agency
- U.S. Naval Research Labs
- U.S. Wildlife & Fisheries (stationed in Anchorage, AK)
- Virginia Living Museum (Newport News, VA)
Expertise from faculty & researchers in the Departments of Environmental Sciences and Oceanography and Coastal Sciences is sought worldwide.

Examples of CC&E’s areas of expertise:

- Biogeochemistry
- Climate change
- Coastal and environmental policy & management
- Coastal and marine fisheries
- Coastal land loss
- Coastal restoration & resilience
- Chemical pollution
- Deltaic processes
- Estuarine & wetland ecology
- Fisheries, stock assessment & population dynamics
- GIS
- Hypoxia
- Marine microbiology
- Nutrient cycles & trophic dynamics
- Numerical simulation modeling
- Oceanography
- Oil Spill bioremediation
- Phytoplankton & zooplankton ecology
- Satellite Remote Sensing
- Sea level rise & subsidence
- Sediment transport
- Storm impact
- Toxicology
- Wetlands sciences
Examples of industries using CC&E’s research expertise and modeling predictions:

- Agriculture and industries with nutrient runoff
- Energy industry
- Financial institutions/risk assessment due to coastal land loss, wetlands disappearance, hurricanes, storm surge, etc.
- Industries concerned about remediation, bioremediation and oil spill clean up
- Industries and communities impacted by coastal resilience and restoration
- Industries impacted by environmental toxicology and human health
- Industries that use ports and waterways
- Industries that generate chemical hazards
- Industries concerned about water quality
- Recreational and commercial fisheries
- State and federal government agencies
“Alone we can do so little; together we can do so much.” Helen Keller

- College Leadership
- Outstanding Faculty
- Advisory Council
- Affiliates & Collaborators
Leadership Team 2017

Christopher F. D’Elia
Dean and Professor

Richard F. Shaw
Associate Dean of Academics and Professor

Kevin L. Armbrust
Chair, Dept. of Environmental Sciences and Claiborne Gasoline Company Chair in Air Quality/Environmental Toxicology and Professor

Kam-Biu Liu
Chair, Dept. of Oceanography and Coastal Sciences and George W. Barineau III Professor

Vince L. Wilson
Director, CC&E Undergraduate Programs and Professor, Department of Environmental Sciences

Leah Courville
Assistant Dean
CC&E’s faculty is internationally acclaimed for its high-impact contributions to research and education. Highlights include:

- American Association for the Advancement of Science (AAAS) Fellows (6)
- American Fisheries Society Fellows
- Heinz Award
- MacArthur “Genius” Award
- LSU Boyd Professors (4)
- LSU Rainmakers (6)
- LSU Distinguished Faculty (7)
- LSU Distinguished Research Masters (6)
CC&E’s Advisory Council provides guidance in making the CC&E a responsive and effective partner with academia and private, corporate, and public sectors as it strives to fulfill its mission. The Council achieves these objectives by:

- **Facilitating introductions** to stakeholders committed to Louisiana’s coast and environment.
- **Raising funds** to support the college.
- **Increasing visibility** of the college among coastal and environmental leaders globally.
Advisory Council Members

Members are well-respected supporters of the coast and environment

ACADEMIC INSTITUTIONS
- LSU CC&E, Chris D'Elia, Ph.D.
- Tulane University Law School - Institute on Water Resources Law & Policy, Mark Davis, Ph.D.

FINANCIAL INDUSTRY
- Svendson Investment, LLC, Martin Svendson
- Woods Family Investment Company, LLC, Mike Woods

FRIENDS OF THE COAST & ENVIRONMENT
- Woman's Hospital/Louisiana Anesthesiology Group, LLC, Dr. Eric L. Abraham
- Liz Hampton, Camp Matens, Eloise Wall, Ricky Lane

OUTDOOR INDUSTRIES
- Bloch, Briggs & Associates, Inc., Lee Bloch
- Honey Brake Outfitters, Drew Keeth
- WAFB, Jay Grymes
- Lipsey's, LLC, Richard Lipsey

LEGAL
- Kean Miller Attorneys at Law, Charles S. "Trey" McCowan
- Taylor Porter Brooks and Phillips, LLP, W. Luther "Bill" Wilson

NON PROFIT ORGANIZATIONS
- Coalition to Restore Coastal Louisiana, Kimberly Reyher
- Restore or Retreat, Inc., Simone Maloz

OIL, GAS & RELATED INDUSTRIES
- Danos, Thomas W. Broom
- Deloach Marine, David "Z Dave" Deloach
- Freeport-McMoran, Inc., David Norriss, Ph.D.
- Laborde Marine, LLC, Gary Laborde
- Oceaneering, Tara Levy
- Shell Exploration & Production Company, Ian Voparil, Ph.D.
- T Baker Smith, LLC, Kenneth "Kenny" Smith
Affiliates & Collaborators

Examples include:

- Center for Coastal Resiliency
- Center for River Studies
- Coastal Protection Restoration Authority
- Coastal Studies Institute
- Coastal Sustainability Studio
- Future Earth Coasts - North America Engagement Partner
- GOMA - Gulf of Mexico Alliance
- Gulf of Mexico University Research Collaborative (GOMURC)
- Louisiana Department of Wildlife and Fisheries
- Louisiana Geographic Information Center
- Louisiana Geological Survey
- Louisiana Universities Marine Consortium (LUMCON)
- LSU Energy Institute
- National Marine Fisheries
- Sea Grant
- South Central Regional Climate Center
- The Water Institute of the Gulf
- And many more!

*Note: this is not a comprehensive list*
Our Doors Are Always Open

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