

Curriculum Vitae

LUIS A. CIFUENTES

CONTACT INFORMATION

OFFICE ADDRESS:

Texas A&M University–Corpus Christi
6300 Ocean Drive, Unit 5843
Corpus Christi, TX 78412-5843 USA

Tel. +1 361.825.3881

Email: luis.cifuentes@tamucc.edu

<http://research.tamucc.edu/vpmessage.html>

EDUCATION

Ph.D. in Oceanography, University of Delaware, 1987
M.S. in Marine Studies, University of Delaware, 1982
B.A. with Honors in Chemistry, Swarthmore College, 1978

ACADEMIC ADMINISTRATION

EXPERIENCE

VICE PRESIDENT FOR RESEARCH, COMMERCIALIZATION AND OUTREACH, TEXAS A&M UNIVERSITY CORPUS CHRISTI (INTERIM: APRIL 2012- AUGUST 2012, SEPTEMBER 2012-PRESENT)

Responsibilities: Guiding institutional strategic planning for research and sponsored programs, IP commercialization and institutional outreach. Other duties include facilitating multidisciplinary research opportunities and developing campus-wide initiatives, ensuring research compliance with System, State and federal standards, effective administration of research at pre- and post-award stages, and overseeing the university's role as a driver of regional economic development.

Accomplishments

Inaugural VP: The Office of Graduate Studies was split off from the Office of Research and Graduate Studies, which remained in academic affairs, and the Office of Community Outreach was combined with the research offices to form the Division of Research, Commercialization and Outreach in summer 2012. The division has grown to over 30 staff and a \$2.0 M budget and is responsible for the Harte Research Institute for Gulf of Mexico Studies (\$12 M budget) and Lone Star Unmanned Aircraft Systems (UAS) Center of Excellence and Innovation (\$3.0 M budget). Successfully managed a culture change from that of a teaching university to one that aspires to be an emerging research university.

Center Development: Assisted with acquiring funding from the Resources and Ecosystems Sustainability, Tourist Opportunities, and Revived Economies of the Gulf Coast States (RESTORE) Act. Worked with Harte Research Institute for Gulf of Mexico Studies

leadership to capture one of two Centers of Excellence in Texas. The Center, selected in January 2015, has received \$4.0 M to date will likely receive over \$10 to \$15 M in funding over the next decade. Also, helped obtain a commitment \$8.3 M in RESTORE Act funding for the Oyster Resource & Recovery Center.

Research Development: Created an Office of Research Development to cultivate research activity, identify research-funding sources, and provide administrative support for researchers preparing funding proposals. Annual sponsored projects funding, and total project and restricted research expenditures have increased over the past five years. Success with NSF funding has improved significantly. For example, TAMU-CC has five NSF MRI funded projects since 2014. Added commercialization support in the Office of Research Development leading to 16 disclosures, 1 exclusive license, 2 provisional patents, 4 NDA and 1 start-up since 2014.

Research Compliance: Created an office that has overhauled processes and procedures, particularly with respect to IRB, IACUC, Biosafety and OHSP. TAMU-CC is now seen as a leader in research compliance among Texas A&M University System institutions.

Shared Governance: Launched the Council of Principal Investigators and Research Administrators (CPIRA) in September 2013 to advise the VPRCO on how to support research and to achieve national recognition and competitiveness in research and scholarship. Worked with CPIRA to conduct a National Council of University Research Administrators (NCURA) peer review leading to a five-year strategic plan for increasing effectiveness and efficiency in TAMU-CC research administration.

Broader Impacts: The Office of Community Outreach's added broader impacts as an area of emphasis with the goal of connecting university research to local and regional communities. TAMU-CC is now a member of the National Alliance of Broader Impacts.

Academic Program Development: Provided the leadership needed to develop and get Texas Higher Education Coordinating Board approval for a new PhD in Geospatial Computing Sciences, which is one of the first of its kind in the US.

Risk Management: Added the Dive Safety Office to support scientific diving needs of faculty in marine sciences. TAMU-CC is now a member of American Academy of Underwater Sciences.

International Workshops: Ran the Binational Perspectives on Gulf of Mexico Sustainability Workshop in San Miguel de Allende, Mexico. Close to 60 faculty, researchers, policy makers and students from the US and Mexico met at the Hacienda de Santa Clara. Conducted the Global Marine Sustainability Workshop in Oban Scotland with more than 100 international researchers from organizations including the NSF, NOAA, Oak Ridge National Laboratory and the National Academy of Sciences, Engineering, and Medicine, and six universities in Texas.

INTERIM EXECUTIVE DIRECTOR, LONE STAR UAS CENTER OF EXCELLENCE AND INNOVATION, TEXAS A&M UNIVERSITY CORPUS CHRISTI (JUNE 2014-AUGUST 2015)

Responsibilities: Leading the state of Texas in its efforts to become a world leader in UAS operations and testing. Specific duties include guiding the implementation of the UAS test site, sharing knowledge, mentoring, and educating the State, partners, customers, and stakeholders about the vision, opportunities, and challenges of UAS. Providing leadership, support and guidance and offering solutions to FAA program management and their teams to ensure that the Lone Star team can deliver on stated objectives.

Accomplishments

Strategic Development: Led the effort to be designated as one of six national FAA Test Sites. Hired executive director with 20 years' experience at Boeing. Since receiving FAA authority to operate in June 2014, the Lone Star UAS Center of Excellence and Innovation (LSUASC) has conducted over 2000 flight missions and received grants and contracts from NASA, NSF, FAA, Texas State agencies and Fortune 500 companies. Funding to date is nearing \$11 M, including \$7.0 M from the state legislature of Texas.

ASSOCIATE VICE PRESIDENT FOR RESEARCH AND SCHOLARLY ACTIVITIES AND DEAN OF GRADUATE STUDIES, TEXAS A&M UNIVERSITY CORPUS CHRISTI (SEPTEMBER 2010–MARCH 2012)

Responsibilities: Guiding, facilitating and administering growth in research and scholarly activities. Specific duties include overseeing development of grant proposals, negotiation of grants and contracts, administration of sponsored research, research compliance, state and federal relations and maintaining a research database. Working with faculty and deans on issues on academic policy, graduate council affairs, graduate assistantships and scholarships, doctoral programs, graduate program review, new program course proposals, catalog copy, program data, and assisting with SACS accreditation.

Accomplishments

Academic Strategic Planning: Working vice provost Paul Meyer, articulated and included TAMU-CC's goals for growth in engineering into the Texas Engineering Experiment Station's strategic plan for growth of engineering programs in South Texas. This effort was critical to overcoming political obstacles to growing engineering programs at TAMU-CC.

Infrastructure Development: Provided funding for creation of the Innovation in Computing Research Labs, the Genomics Core Lab and Isotope Core Laboratory. These laboratories benefit students with internships and research opportunities and with jobs at HEB, Hewlett Packard, General Motors, Lockheed Martin, USAA and Walmart.

Advancement: Worked with vice president for advancement to secure \$1.2 M in funds from the City of Corpus Christi to build lab infrastructure on the campus.

INTERIM VICE PROVOST, TEXAS A&M UNIVERSITY (JULY 2007–MARCH 2009)

Responsibilities: During the first 13 months of my appointment, the vice provost was the third highest ranking officer in the university, and in charge of making recommendations on aspects of the university's academic functions, including planning, budgeting and supervising and reviewing programs in resident instruction, research and distance and continuing education, and making recommendations for academic programs associated with degrees from baccalaureate through doctoral levels, including professional degrees.

Accomplishments

Policy Development: Co-chaired the Committee for Time and Effort Reporting and Budgeting of Sponsored Projects at TAMU charged with devising rules and guidelines for certification of time and effort as required by 2 CFR Part 220, for budgeting salaries of faculty, PIs and staff on sponsored contracts and for designing an implementation plan and identifying the infrastructure needed to ensure university-wide compliance.

Symposium: Organized, managed and sought funding for a university-wide symposium dealing with the changing landscape of scholarly communication in the digital age in 2008. Formed a steering committee with representation from Texas A&M University Libraries and Texas A&M University Press. We attracted some of the best minds in the nation as speakers for this symposium.

Academic Process: Chaired the Classroom Scheduling Task Force charged by Council of Deans to develop recommendations on the scheduling and use of university classrooms and to consider the viability of management changes such as consistent scheduling patterns for all classrooms, centralized control of scheduling and migrating to a software-based scheduling system. Worked closely with the offices of Admission and Records and Facilities Coordination in fall 2008 to begin plan implementation.

Athletic Relations: Served as convener of the Tailgating Management Team and implemented recommendations of the Tailgating Working Group, chaired by former vice provost Bill Perry. Successfully put new rules into practice and set the stage for additional rules changes in fall 2008.

Former Student Relations: Worked with Texas A&M University Association of Former Students (AFS) to improve integration of academic priorities into their fundraising and fund-providing activities. Coordinated with the President's office to ensure that the process for dispersing AFS funds to the university's colleges and divisions is mission-based and transparent.

Administrative Hiring: Took over a failed search and chaired the search advisory committee for the dean of the College of Architecture. This effort led to the successful hire of Dr. Jorge Vanegas who is presently the highest-ranking Hispanic administrator at Texas A&M University.

Diversity: Supported setting up the first student chapter of SACNAS at TAMU and promoted the university's Gold level sponsorship at the 2009 SACNAS National Conference in Dallas, TX. Visited the Texas A&M University's Prospective Student Centers (PSCs) and reported on how effective they were at recruiting not only first-generation and underrepresented students, but also students of all backgrounds. PSCs, although costly, were indispensable to sustaining the gains TAMU had made in the number of applications from underrepresented students, particularly Hispanics from south Texas, and in their capture rate.

EXECUTIVE ASSOCIATE DEAN AND ASSOCIATE DEAN FOR RESEARCH, COLLEGE OF GEOSCIENCES, TEXAS A&M UNIVERSITY (INTERIM: JANUARY 2003–OCTOBER 2004, OCTOBER 2004–JUNE 2007; MARCH 2009–MAY 2009; SEPTEMBER 2009–2010)
INTERIM DEAN, COLLEGE OF GEOSCIENCES, TEXAS A&M UNIVERSITY (JUNE 2009–AUGUST 2009)

Responsibilities: Serving as dean in the dean's absence and functioning as chief of staff for the routine operations of the dean's office, coordinating long range and strategic planning for the college and oversight of quality and improvement programs within the college. Additional tasks include fostering college research activity and development in and between academic departments and research centers, coordinating interdisciplinary research programs, and promoting and developing international research agreements and partnerships. At the time, she had an E&G budget of about \$15 M, research expenditures close to \$17 M, and oversight of the NSF Integrated Ocean Drilling Program with a budget of over \$50 M.

Accomplishments

Faculty Hiring: Guided the College of Geosciences through both the Reinvestment and Ocean Drilling and Sustainable Earth Sciences (ODASES) hiring programs (2004–2008). During this period, 31 new faculty members were recruited to the college.

Administrative transitions: Assisted with changes from former to new dean and interim director to new permanent director of science operations at the Integrated Ocean Drilling Program, one of the largest research programs at NSF (circa \$50 M annually) at a critical juncture in their operations.

Research Development: Set up response teams to ensure that the College of Geosciences responded to multi-disciplinary call for proposals funded by the American Recovery and Reinvestment Act of 2009. Faculty members in the college received more than \$3.5 M in stimulus package moneys.

Center Development: Guided the College of Geosciences through Board of Regents approval of the Berg-Hughes Center for Petroleum and Sedimentary Systems and initiated the implementation of Ph.D. program in Geology with an emphasis on petroleum geosciences for the Kuwait Oil Company.

Development: Managed the process of planning, fund raising and oversight of the building the R. Ken Williams '45 Radiogenic Isotope Geosciences Laboratory, the college's most ambitious facilities project in decades with a cost of \$2.6 million.

Risk Management: Provided oversight to the British Petroleum/Okeanos funded deepwater restoration project in the College of Geosciences, which at the time risked not meeting its contractual obligations. The program had been poorly managed and was hindered by the lack of availability of ships, owing to hurricane Katrina, with the required technology to accomplish project objectives.

Facilities Management: Functioned as the operations officer in the College of Geosciences and was responsible for the built environment under the colleges control and any new construction. During the reinvestment period, oversaw planning and coordination of close to \$4.7 M in laboratory construction and space renovations in the College.

Diversity: Along with Dr. Victor Arizpe, professor of Hispanic Studies, initiated the Mi Casa Es Su Casa program in 2005. Faculty with Hispanic backgrounds or with a strong interest in Hispanic culture provide students, mainly first time in college, with a home away from home. Students are invited monthly to a participating faculty members' home for a meal, fellowship, and conversation on wide-ranging issues.

International Programs: Developing a partnership between TAMU and the Oceanographic Institute of the Ecuadorian Navy, which led to collaborative education and research initiatives. Initiated and guided the process of developing and getting approval for a joint Ph.D. degree between TAMU and the Ocean University of China, the first of its kind at Texas A&M University.

PROFESSIONAL ACTIVITIES RELATED TO ADMINISTRATION

- Member, Board, United Corpus Christi Chamber of Commerce, 2016 to present
- Member, Texas Engineering Experiment Station External Advisory Board, 2016 to present
- University Vice Presidents of Research - NASA Summit on Academic + Technology Research, Houston, TX, 2016
- U.S. Council on Competitiveness: Exploring Innovation Frontiers Initiative: Southern Regional Dialogue, Houston, TX, 2016
- Corpus Christi Mayor's Workforce Taskforce, 2013-2015
- Member, Board, Corpus Christi Hispanic Chamber of Commerce, 2012-2016
- Member, Advisory Board, Tropical Texas Regional Center for Innovation and Commercialization, 2012-2014
- Member, Advisory Board, Texas A&M Energy Engineering Institute, 2011-2014
- Member, Graduate Education Advisory Committee, Texas Higher Education Coordinating Board, 2010–2012
- Member, Coalition for Ocean Leadership Membership Committee, 2009-2010
- Member, Central College Station Neighborhood Resource Team, 2009-2010
- Making Interdisciplinarity Work, Dean of Faculties Professional Development Series, College Station, TX, 2009

- 2009 National Leadership Excellence for Academic Diversity Workshop, Fayetteville, AK, 2009
- Insight into Philanthropy, Advancement Resources Workshop, College Station, TX, 2009
- Member, Board of Directors, Research Valley Partnership, Inc., 2008–2009
- Preparing for SACS Compliance Certification: Conducting a Readiness Audit, 8th Annual Texas A&M Assessment Conference, College Station, TX, 2008
- Governors Executive Development Program, Lyndon B. Johnson School of Public Affairs, The University of Texas, Austin, 2004

ACADEMICS

APPOINTMENTS

Professor, Department of Physical and Environmental Sciences, Texas A&M University Corpus Christi, 2010-present

Professor, Department of Oceanography, Texas A&M University, 2000–2010

Associate Professor, Department of Oceanography, Texas A&M University, 1994–2000

Assistant Professor, Department of Oceanography, Texas A&M University, 1988–1994

Postdoctoral Fellow, Geophysical Laboratory, Carnegie Institution of Washington, Washington, D.C., 1986–1988

Pre-doctoral Fellow, Geophysical Laboratory, Carnegie Institution of Washington, Washington, D.C., 1984–1986

HONORS AND AWARDS

Energy Drone Horizon Award, Drone Energy Coalition, 2017

Phi Kappa Phi Honor Society, 2014

Gordon Conference Chairman, 1995

Gordon Conference Speaker, 1995

College of Marine Studies, University of Delaware, Publications Award, 1995

Gordon Conference Speaker, 1988

DISCO Symposium (Dissertations in Chemical Oceanography), 1987

College of Marine Studies, University of Delaware, Academic Council Award, 1987

Carnegie Corporation Fellow, 1987

Carnegie Institution of Washington Postdoctoral Fellowship, 1986

PROFESSIONAL SOCIETIES

American Geophysical Union

American Society of Limnology and Oceanography

PROFESSIONAL ACTIVITIES RELATED TO ACADEMICS

- FAA Technical Interchange Meeting, Rome, NV, 2017
- Summit 2017 - The State of the Gulf of Mexico, Houston, TX, 2017
- Cyber Security of Critical Infrastructure Summit 2017, College Station, TX, 2017
- Global Marine Sustainability Workshop, Oban, Scotland, 2016

- FAA Technical Interchange Meeting, Fairbanks, AK, 2015
- FAA Technical Interchange Meeting, Las Vegas, NV, 2014
- A Water Technology Roadmap Forum Facilitated through an Interdisciplinary and Multi-Stakeholder “Charrette,” San Antonio, TX, 2015
- Summit 2014 - The State of the Gulf of Mexico, Houston, TX, 2014
- South Texas Mayors' Stakeholder Summit, Edinburg, TX 2013
- Panelist, NSF–RCN SEES Panel, 2012
- Member, External Advisory Board, NSF Center Dark Energy Biosphere Investigations, 2011-2015
- 2011 Research Facilities Forum, San Jose, CA, 2011
- NSF Diversity and Innovation in Geosciences in Texas Workshop, Houston, TX, 2011
- Texas Council of Chief Academic Officers Panel Discussion "Best Practices for Promoting Faculty Research," Austin, TX 2011
- The First US COSEE-China Workshop, Beijing, China, 2010
- ARPA-E Energy Innovation Summit, Washington, DC, 2010
- Chair, Water in the 21st Century: Demographic inequities, resource scarcity, and populations at risk, SACNAS National Conference, 2009
- Climate Change and Coastal Oceans Workshop, Qingdao, China, 2008
- Panelist, NSF–OEDG Panel, 2007
- Member, Executive Committee, Ecological Assessment of Antigua, 2006–2009
- Panelist, NOAA’s Office of Ocean Exploration Program, 2006
- Bioremediation Risk Assessment Workshop, U.S. EPA, Pensacola, FL, 1995
- Chairman, Gordon Conference on Estuaries, 1993–1995
- Bioremediation Risk Assessment Workshop, U.S. EPA, Duluth, MN, 1993
- NECOP (Nutrient Enhanced Coastal Productivity) Principal Investigator Meeting, NOAA. Gulfport, MS, 1993
- NSF Research Experience for Undergraduates Panel, 1992
- Co-chairman, Gordon Conference on Estuaries, 1991–1993
- The Measurement of Dissolved Organic Carbon and Nitrogen in Natural Waters, NSF/NOAA/DOE, Seattle, WA, 1991
- Alaska Oil Spill Bioremediation Workshop, U.S. EPA, Las Vegas, NV, 1991
- NECOP (Nutrient Enhanced Coastal Productivity) Principal Investigator Meeting, NOAA. Miami, FL, 1991
- Consultant, U. S. EPA Bioremediation Program, 1989
- Mississippi River Plume/Louisiana Shelf Interaction Workshop, NOAA, Baton Rouge, LA, 1989
- Introduction to Mass Spectrometry, Finnigan MAT Institute, Boston, MA, 1984

UNIVERSITY SERVICE

TEXAS A&M UNIVERSITY CORPUS CHRISTI

- Chair, Indirect Cost Policy Working Group, 2015-2016
- Member, Search Advisory Committee for Executive Vice President for Finance & Administration, 2015
- Member, Dive Safety Board, 2013-present
- Member, Intercollegiate Athletics Council, 2013-present

- Strategic Planning and Continuous Improvement Council, 2013-2015
- Member, Coastal Bend Business Innovation Center Advisory Board, 2013-present
- Member, Search Advisory Committee for Dean of the College of Business, 2013
- Member, President's Cabinet, 2012-present
- Member, Search Advisory Committee for Graduate Dean, 2012-2013
- Chair, Search Advisory Committee for Department Chair in Physical and Environmental Sciences, 2012-2013
- Chair, Emerging Research Institution Task Force, 2011-2012
- Chair, Doctoral Program Working Group, 2011-2012
- Chair, Hurricane/Tropical Storm Defense Plan for Research Working Group, 2011-2012
- Member, Texas A&M University System Federal Relations Task Force, 2011-present
- Chair, Research Enhancement Committee, 2011-present
- Chair, Texas A&M University System Office of Research Development Working Group, 2011
- Chair, RASS DISC Regional Issues Working Group, 2011
- Member, Research Administration Shared Services Development and Implementation Steering Committee (RASS DISC), 2011
- Texas Engineering Experiment Station Division Head, 2010-present
- Chair, University Promotion and Tenure Committee, 2010-present
- Member, Texas A&M University System Council of Chief Research Officers, 2010-present
- Member, Texas A&M University System Council of Graduate Deans, 2010-2012
- Advisor, Texas A&M University Corpus Christi Graduate Student Organization, 2010-2012

TEXAS A&M UNIVERSITY

- Member, Diversity Operations Committee, 2010
- Chair, Search Advisory Committee for Assistant Dean of Finance and Administration, 2010
- Member, Task Force on Enrollment Management, 2009-2010
- Convener, University Research Council, 2009-2010
- Chair, Search Advisory Committee for Director of the Office of Proposal Development, 2009-2010
- Member, IODP Oversight Committee, 2008-2009
- Member, Academic Master Planning Steering Committee, 2008-2009
- Co-Chair, Committee for Time and Effort Reporting, 2008-2009
- Member, Confucius Center Advisory Board, 2008-2009
- Chair, Search Advisory Committee for Dean, College of Architecture, 2008-2009
- Member, Enrollment Planning Committee, 2008-2009
- Member, Research Park Task Force, 2008-2009
- Member, Qatar Coordination Committee, 2008-2009
- Member, Selection Committee, JoAnn Treat Excellence Award, 2008
- Advisor, Ecuadorian Student Association, 2007-2010
- Member, Commencement Committee, 2007-2009
- Member, Council for the Built Environment, 2007-2009
- Member, Enterprise Information Systems Council, 2007-2009

- Member, Fieldwork Safety Committee, 2007–2008
- Member, EthicsPoint Hotline Implementation Committee, 2007–2008
- Chair, Classroom Scheduling Task Force, 2007–2008
- Convener, Tailgating Management Team, 2007–2008
- Member, Selection Committee, Texas A&M University Bush Excellence Award for Faculty in International Research, 2007
- Member, Gulf of Arabia Studies Subcommittee, 2007
- Participant, Texas A&M University System Junior Faculty Workshop, 2006
- Member, Search Advisory Committee for Vice President for Diversity, 2006
- Member, European Union Center of Excellence Management Committee, 2005–2007
- Participant, Texas A&M University System Junior Faculty Workshop, 2005
- Member, President’s Task Force Wage and Benefits, 2005
- Member, University Research Council, 2004–2007
- Member, International Programs Enhancement and Coordination Committee, 2004–2007
- Member, Study Abroad Program Policy Committee, 2004–2007
- Panelist, Energy Research Enhancement Program, 2000
- Panelist, Energy Research Enhancement Program, 1999

RESEARCH

RESEARCH GRANTS (AS PI OR COPI; \$5.58 MILLION TO DATE)

1. Binational Perspectives on Gulf of Mexico Sustainability Workshop (March 2017), NASA, \$9,000, 2017.
2. Support for Application as FAA Test Center for UAS, City of Corpus Christi, \$600,000, 2013-2014.
3. MRI: Acquisition of ESIC Mass Spectrometer, NSF, \$419,259, 2013-2015.
4. RCN-SEES: Climate, Energy, Environment and Engagement in Semiarid Regions (CE³SAR), NSF, \$773,000, 2012-2017.
5. Expanded Opportunities in Atmospheric Sciences for Texas Undergraduates, NSF, \$66,099, 2005-2008.
6. Development of joint multi-pollutant air quality modeling facilities and air monitoring stations for the Houston-Galveston Metropolitan Area, EPA, \$104,869, 2002–2003.
7. Stable Carbon Isotope Sample Preparation and Analysis by Isotope Ratio Mass Spectrometry, Geocenters, \$11,000, 2001–2001.
8. Deepwater program: Northern Gulf of Mexico Continental Slope Habitats and Benthic Ecology, Mineral Management Service, \$90,743, 1999–2004.

9. Stable isotope determination of headspace gas concentrations. TDI International, INC., \$99,035, 1998–2006.
10. Ecological assessment and modeling of lower Colorado River channel dams, Lower Colorado River Authority, \$24,557, 1998–1999.
11. Geochemical and microbiological influences on terminal electron accepting processes and its relation to the biodegradation of pollutants in the subsurface: A study of an aquifer contaminated by landfill leachate, USGS, \$43,139, 1997–2000.
12. Identifying sources of nitrogenous nutrients and of oxygen in the hypoxic region of the Mississippi River plume, EPA, \$60,185, 1997–1999.
13. Sediment trap deployment in the Anacostia River, NRL, \$18,000, 1997–1998.
14. The effects of dredge deposits on the distribution and productivity of seagrasses: An integrative model for Laguna Madre; U.S. Army COE, \$528,027, 1996–1999.
15. Work/Quality assurance project plan for air toxics deposition monitoring in Galveston Bay, Texas, EPA, \$8,000, 1994–1995.
16. In situ monitoring of biodegradation of BTEX and PAH's with stable isotope analysis, NRL, \$500,000, 1994–1997.
17. In situ monitoring of creosote biodegradation using stable isotope analysis, EPA, \$684,593, 1993–1996.
18. Tracing the rates and fates of sewage effluent nitrogen from southeast Florida ocean outfalls, EPA, \$100,000, 1993–1994.
19. 1° and 2° production in the Gulf of Mexico with an emphasis on collecting ground truth data for satellite studies, EPA, \$298,993, 1993–1994.
20. Environmental monitoring and assessment program near coastal - Gulf of Mexico implementation, EPA, \$142,295, 1992-1994.
21. Anthropogenic nitrogenous nutrients in Texas rainwater: Potential impact on coastal productivity, Center for Energy and Mineral Resources, \$24,000, 1992–1993.
22. Mangrove Detritus: Sink or Link? NSF, \$125,000, 1992–1994.
23. Nutrient enhanced coastal ocean productivity: The role of dissolved organic nitrogen, Sea Grant, \$80,000, 1992–1994.
24. Transport and oxygen demand of dissolved organic carbon in effluent from the Champion Paper Mill in the Perdido Estuary, FL, Champion International Corporation, \$80,016, 1991–1992.

25. Nitrogen isotope ratios as a tracer of bacterial nitrogen sources in estuarine and coastal waters, NSF, \$136,559, 1991–1992.
26. Enhancement of petroleum degradation with addition of fertilizer: Laboratory and field studies with stable isotope tracers, U.S. EPA Cooperative Agreement, \$250,489, 1990–1993.
27. Stable nitrogen isotope tracers of nutrient enhanced coastal productivity in the Gulf of Mexico, Texas Sea Grant, \$8,500, 1990–1991.
28. Natural radioactivities as indicators of marine biological productivity, Texas Advanced Research Program, \$55,000, 1990–1990.
29. A study of the natural abundance of ^{15}N in chlorophyll *a*–extracted from recent marine organic matter, Petroleum Research Fund, \$18,000, 1989–1990.
30. Carbon and nitrogen stable isotopes used to study the fate of environmental contaminants, U.S. EPA Award for Innovative Research, \$50,000, 1989–1989.
31. Natural radioactivities as indicators of marine biological productivity, Texas Advanced Research Program, \$106,000, 1988–1989.

JOURNALS PUBLICATIONS (H-INDEX = 28)

1. Hoch, M. P., K. S. Dillon, R. B. Coffin and L. A. Cifuentes (2008) Sensitivity of bacterioplankton nitrogen metabolism to eutrophication in sub-tropical coastal waters of Key West, Florida. *Mar. Pollut. Bull.* 56: 913–926.
2. Santschi, P. H., S. D. Oktay and L. A. Cifuentes (2007) Carbon isotopes and iodine concentrations in a Mississippi River delta core recording land use, sediment transport, and dam building in the river's drainage basin. *Mar. Environ. Res.* 63: 278–290.
3. Kaldy J. E., P. M. Eldridge, L. A. Cifuentes and W. B. Jones (2006) Utilization of DOC from seagrass rhizomes by sediment bacteria: ^{13}C -tracer experiments and modeling *Mar. Ecol. Prog. Ser.* 317: 41–55.
4. Eldridge, P. M., L. A. Cifuentes and J. E. Kaldy (2005) Development of a stable isotope constraint system for estuarine food web models. *Mar. Ecol. Prog. Ser.* 303: 73–90.
5. Kaldy, J. E., L. A. Cifuentes and D. Brock (2005) Using stable isotope analyses to assess carbon dynamics and a shallow sub-tropical estuary. *Estuaries* 28: 86–95.
6. Jones, W. B., L. A. Cifuentes and J. E. Kaldy. (2003) Stable carbon isotope evidence for coupling between sedimentary bacteria and seagrasses in a sub-tropical lagoon. *MEPS* 255: 15–25.

7. Grossman, E. L., L. A. Cifuentes and I. M. Cozarelli (2002) Anaerobic Methane Oxidation in a landfill-leachate plume. *Environ. Sci. Tech.* 36: 2436–2442.
8. Kaldy, J. E., P. M. Eldridge, C. P. Onuf and L. A. Cifuentes. (2002) Carbon budget for a sub-tropical seagrass dominated coastal lagoon: How important are seagrasses to total ecosystem net primary production. *Estuaries* 25: 528–539.
9. Coffin, R. B., C. A. Kelley, P. H. Miyares, C. M. Reynolds and L. A. Cifuentes (2001) Stable carbon and nitrogen isotope analysis of TNT: Two-dimensional source identification. *Environ. Toxicol. Chem.* 20: 2676–2680.
10. Cifuentes, L. A. and G. G. Salata, (2001) Significance of carbon isotope discrimination between bulk carbon and extracted phospholipid fatty acids in selected terrestrial and marine environments. *Organic Geochem.* 32: 613–621.
11. Pakulski, J. D., R. Benner, T. Whitley, R. Amon, B. Eadie, L. A. Cifuentes, J. Ammerman and D. Stockwell (2000) Microbial metabolism and nutrient cycling in the Mississippi and Atchafalaya river plumes. *Estuar. Coast. Shelf. Sci.* 50: 173–184.
12. Salata, G. G., L. A. Roelke, and L. A. Cifuentes (2000) A rapid and precise method for measuring stable carbon isotope ratios of dissolved inorganic carbon. *Mar. Chem.* 69: 153–161.
13. Coffin, R. B. and L. A. Cifuentes (1999) Stable isotope analyses of carbon cycling in the Perdido Estuary, FL. *Estuaries* 22: 917–926.
14. Roelke, D. L., P. M. Eldridge and L.A. Cifuentes (1999) A model of phytoplankton competition for limiting and non-limiting nutrients: Implications for management of dynamic environments. *Estuaries*: 92–104.
15. Cifuentes, L. A. and P. M. Eldridge (1998) A mass- and isotope-balance model of DOC mixing in estuaries. *Limnol. Oceanogr.* 43: 1872–1882.
16. Kelley, C. A., R. B. Coffin and L. A. Cifuentes (1998) Stable isotope evidence for alternate bacterial carbon sources in the Gulf of Mexico. *Limnol. Oceanogr.* 43: 1962–1969.
17. Hammer, B. T., C. A. Kelley, R. B. Coffin, L. A. Cifuentes and J. G. Mueller (1998) $\delta^{13}\text{C}$ values of polycyclic aromatic hydrocarbons collected from two creosote-contaminated sites. *Chem. Geol.* 152: 43–58.
18. Pelz, O., L. A. Cifuentes, C. A. Kelley, B. A. Trust and R. B. Coffin. (1998) Tracing the assimilation of organic compounds using $\delta^{13}\text{C}$ analysis of unique amino acids in the bacterial peptidoglycan cell wall. *FEMS Microbiol. Ecol.* 25: 229–240.

19. Dittel, A. I., C. E. Epifanio, L. A. Cifuentes and D. L. Kirchman (1997) Carbon and nitrogen sources for shrimp postlarvae fed natural diets from a tropical mangrove system. *Estuar. Coast. Shelf. Sci.* 45: 629–637.
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87. Cifuentes, L. A., T. C. Hoering, G. W. Luther, III, T. G. Ferdelman and T. M. Church (1988) Stable sulfur isotope measurements of inorganic sulfur in the Great Marsh, Delaware. *Trans. Amer. Geophys. Union*, EOS 69: 1234.
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92. Cifuentes, L. A. (1986) Lignin geochemistry of the Delaware Estuary. *Trans. Amer. Geophys. Union*, EOS 67: 1036.
93. Cifuentes, L. A. and M. L. F. Estep (1986) Stable carbon and nitrogen isotopes in suspended and bottom sediments of the Delaware Estuary. 191st ACS National Meeting, New York, NY.

94. Sharp, J. H., L. A. Cifuentes and M. L. Fogel (1986) Controls of stable nitrogen isotope abundances in the Delaware Estuary. *Trans. Amer. Geophys. Union, EOS* 67: 984.
95. Cifuentes, L. A. (1985) A multiple-tracer approach to understanding estuarine organic matter. *Trans. Amer. Geophys. Union, EOS* 66: 1284
96. Cifuentes, L. A., M. L. F. Estep, and J. H. Sharp (1985) Seasonal variability of sources of organic matter in the Delaware Estuary. *ERF* 8: 232.
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PROCEEDINGS, THESES AND NON-REFEREED REPORTS

1. Eldridge, P. M., L. A. Cifuentes and J. E. Kaldy (2001) Ecological study of the Nueces Bay food web. Final Report submitted to the Texas Water Development Board. 1700 N. Congress Ave. Austin, TX 78711.
2. Dunton K. A., A. Burd, L. A. Cifuentes, P. M. Eldridge and J. W. Morse (2001) The effect of dredge deposits on the distribution and productivity of seagrasses: An integrative model for Laguna Madre. Draft Final Report to Interagency Coordinating Team, US Army Corps of Engineers, Galveston District.
3. Kaldy, J. E. and L. A. Cifuentes (2001) A study of Sabine Lake Productivity. Final Report submitted to the Texas Water Development Board. 1700 N. Congress Ave. Austin, TX 78711.
4. Cifuentes L. A., P. M. Eldridge and J. E. Kaldy (1999) Characterization of nutrients and light in the Bay City Impoundment of the Lower Colorado River: Implications for primary production. Final Report submitted to Lower Colorado River Authority, PO Box 220, Austin, TX 78767.
5. Mueller, J. G., E. Klingel, M. D. Brouman, R. B. Coffin, L. A. Cifuentes, W. W. Schultz and B. J. Spargo (1996) Field demonstration of in situ chemical containment technologies case study: Naval Battalion Command, Port Hueneme, CA. In B. J. Spargo, Ed., *In Situ bioremediation and Efficacy Monitoring*, NRL/PU/6115-96-317, Washington DC, pp. 3-12.
6. Mueller, J. G., E. Klingel, M. D. Brouman, R. B. Coffin, L. A. Cifuentes, W. W. Schultz and B. J. Spargo (1996) Field demonstration of in situ chemical containment technologies case study: Cabot Carbon/Kopper's superfund site, Gainesville, FL. In B. J. Spargo, Ed., *In Situ bioremediation and Efficacy Monitoring*, NRL/PU/6115-96-317., Washington DC, pp. 13-32.

7. Borchert, S., J. G. Mueller, F. Lakhwala, S. Lantz, W. W. Shultz, W. Langley, E. Klingel, B. J. Spargo, T. J. Boyd, M. T. Montgomery, J. P. Conolly, L. A. Cifuentes, L. A. Roelke, B. A. Trust and C. A. Kelley (1996) Mesocosm studies simulating processes around the in situ groundwater circulation well bioremediation technology. In B. J. Spargo, Ed., *In Situ bioremediation and Efficacy Monitoring*, NRL/PU/6115--96—317, Washington DC, pp. 33–50.
8. Trust, B. A., L. A. Cifuentes, R. B. Coffin and C. A. Kelley (1996) Monitoring biodegradation with carbon isotopes. In B. J. Spargo, Ed., *In Situ bioremediation and Efficacy Monitoring*, NRL/PU/6115—96—317, Washington DC, pp. 51–56.
9. Trust, B. A., D. H. Scerno, R. B. Coffin, J. G. Mueller and L. A. Cifuentes. 1996. Tracing biodegradation with stable carbon isotope measurements of respired CO₂. In: *In Situ bioremediation and Efficacy Monitoring* *In Situ bioremediation and Efficacy Monitoring*, NRL/PU/6115—96—317, Washington DC, pp. 57–70.
10. Kelley, C. A., B. A. Trust, R. B. Coffin and L. A. Cifuentes (1996) Methods for measuring the $\delta^{13}\text{C}$ values of PAH and BTEX compounds using GC/ITMS/IRMS. In B. J. Spargo, Ed., *In Situ bioremediation and Efficacy Monitoring*, NRL/PU/6115--96—317, Washington DC, pp. 71–78.
11. Salata, G. G., L. A. Roelke and L. A. Cifuentes (1996) A rapid and precise method for the determination of dissolved inorganic carbon stable isotopes. In B. J. Spargo, Ed., *In Situ bioremediation and Efficacy Monitoring*, NRL/PU/6115--96—317, Washington DC, pp. 79–86.
12. Salata, G. G., R. C. Downer, Jr., L. A. Roelke and L. A. Cifuentes (1996) Isotopic analysis of trace amounts of CO₂ via cryofocusing. In B. J. Spargo, Ed., *In Situ bioremediation and Efficacy Monitoring*, NRL/PU/6115--96—317, Washington DC, pp. 87–92.
13. Pelz, O., L. A. Cifuentes, C. A. Kelley, B. A. Trust and R. B. Coffin (1996) Development of methods for identification of bacterial carbon sources in soils using $\delta^{13}\text{C}$ analysis of unique amino acids within peptidoglycan. In B. J. Spargo, Ed., *In Situ bioremediation and Efficacy Monitoring*, NRL/PU/6115--96—317, Washington DC, pp. 93–106.
14. Salata, G. G. and L. A. Cifuentes (1996) The use of phospholipids as tracers of hydrocarbons in a biodegradation scheme. In B. J. Spargo, Ed., *In Situ bioremediation and Efficacy Monitoring*, NRL/PU/6115--96—317, Washington DC, pp. 107–112.
15. Trust, B. A., C. A. Kelley, R. B. Coffin, L. A. Cifuentes and J. G. Mueller (1996) $\delta^{13}\text{C}$ values of polycyclic aromatic hydrocarbons collected from two creosote impacted sites. In B. J. Spargo, Ed., *In Situ bioremediation and Efficacy Monitoring*, NRL/PU/6115--96—317, Washington DC, pp. 179–194.

16. Cifuentes, L. A., R. B. Coffin, R. Downer, Jr., C. A. Kelley, L. A. Roelke, G. G. Salata and B. A. Trust (1996) Stable isotope measurements of dissolved inorganic carbon and soil gases at two bioremediation sites. In B. J. Spargo, Ed., *In Situ bioremediation and Efficacy Monitoring*, NRL/PU/6115--96—317, Washington DC, pp. 195–206.
17. Coffin, R. B., M. T. Montgomery, C. A. Kelley, B. A. Trust, J. G. Mueller and L. A. Cifuentes (1996) Analyses of carbon and nutrient concentrations for optimization of groundwater circulation systems used in bioremediation of organic contaminants. In B. J. Spargo, Ed., *In Situ bioremediation and Efficacy Monitoring*, NRL/PU/6115--96—317, Washington DC, pp. 207–222.
18. Morin, J. P., C. A. Kelley, R. B. Coffin and L. A. Cifuentes (1996) Application of a zero-headspace large-volume incubator for studying dissolved gases and volatile organic compounds. In B. J. Spargo, Ed., *In Situ bioremediation and Efficacy Monitoring*, NRL/PU/6115--96—317, Washington DC, pp. 271–284.
19. Lopez-Veneroni, D., L. A. Cifuentes and R. B. Coffin (1995) An isotopically-constrained model for denitrification and nitrogen burial in the continental shelf of the NW Gulf of Mexico. *Proceedings of the 1994 Synthesis Workshop*, 1995, pp. 75–80.
20. Trust, B. A., J. G. Mueller, R. B. Coffin and L. A. Cifuentes (1995) The biodegradation of fluoranthene by *Sphingomonas paucimobilis* as monitored by stable isotope ratio analysis. In: *Battelle's Third International Symposium on In Situ and On-Site Bioreclamation*. San Diego, CA. April 1995.
21. Roelke, D. L., G. A. Fryxell and L. A. Cifuentes (1993) A possible Amnesic Shellfish Poisoning event caused by consumption of an oyster product from Korea. *Harmful Marine Algae Newsletter*.
22. Sharp, J. H., L. A. Cifuentes, R. B. Coffin, M. E. Lebo, and J. R. Pennock (1993) *Eutrophication: Are excessive nutrient inputs a problem for the Delaware Estuary?* University of Delaware Sea Grant College Program, DEL-SG-03-94.
23. Boutton, T. W., S. F. Zitzer, S. R. Archer, L. A. Cifuentes and J. P. Angler (1992) Nitrogen fixation by woody plants in a subtropical savanna: Evidence based on natural abundance of nitrogen-15. In J. W. Stuth, Ed., *La Copita Research Area: 1992 Consolidated Progress Report*. Texas Agricultural Experiment Station, CPR-5047, pp 79–81.
24. Lopez-Veneroni, D. and L. A. Cifuentes (1992) Dissolved organic nitrogen distribution and transport in the continental shelf of the Northwest Gulf of Mexico. *Proceedings of the NECOP Workshop*, pp. 57–68.
25. Cifuentes, L. A. and R. B. Coffin (1992) Stable isotope studies: nitrogen assimilation into the food-chain. *Oil Spill Bioremediation Project Final Report: summer 1989 through winter 1990*. U. S. EPA.

26. Coffin, R. B. and L. A. Cifuentes (1992) Stable isotope studies: trophic structure studies. Oil Spill Bioremediation Project Final Report: summer 1989 through winter 1990. U. S. EPA.
27. Lebo, M. E., L. A. Cifuentes, M. L. Fogel, M. P. Hoch, R. G. Kyle, D. L. Kirchman, J. M. Ludlam, J. R. Pennock, J. H. Sharp, P. T. Spicer and D. J. Velinsky (1990) Oceanographic Report #7. 139 pp.
28. Velinsky, D. J., T. C. Hoering, T. G. Ferdelman, G. W. Luther III, L. A. Cifuentes, and T. M. Church (1990) Determination of the isotopic composition of elemental sulfur from marine sediments. Annual Report of the Director, Geophysical Laboratory, pp. 96–101.
29. Cifuentes, L. A., M. L. Fogel, J. R. Pennock and J. H. Sharp (1988) Seasonal variations in the stable nitrogen isotope ratio of ammonium in the Delaware estuary. Annual Report of the Director, Geophysical Laboratory, pp. 107–113.
30. Fogel, M. L., D. J. Velinsky, L. A. Cifuentes, J. R. Pennock and J. H. Sharp (1988) Biogeochemical processes affecting the stable carbon isotopic composition of particulate carbon in the Delaware Estuary. Annual Report of the Director, Geophysical Laboratory, pp. 114–122.
31. Cifuentes, L. A. (1987) Sources and biogeochemistry of organic matter in the Delaware Estuary. Ph. D. Thesis, University of Delaware. 213 pp.
32. Cifuentes, L. A., J. H. Sharp, A. C. Frake and S. E. Pike (1983) Organic Matter. In: J. H. Sharp, Ed. The Delaware Estuary: Research as background for estuarine management and development. University of Delaware, College of Marine Studies and New Jersey Marine Sciences Consortium, pp. 79–93.
33. Cifuentes, L. A. (1982) The character and behavior of organic nitrogen in the Delaware Estuary. M. S. Thesis, University of Delaware. 82 pp.

INVITED TALKS AND PANELS

1. Panel: External Funding of Graduate Students, Association of Texas Graduate Schools, Annual Meeting 2017, San Marcos, TX, September 2017.
2. A Research Vision for Texas A&M University-Corpus Christi, Employee Development Day 2017, Texas A&M University-Corpus Christi, May 2017.
3. Moderator, Unmanned Systems R&D and STEM Panel, Texas UAS Summit, AUVSI, Dallas, TX, May 2017.
4. What Is and Why Aspire to Be an Emerging Research University? Rotary Club of Corpus Christi, Corpus Christi, TX, April 2017.

5. Lunch Plenary Speaker, On the Road to Tenure: Tips for Success and Management, 2017 AGEP National Forum, Washington, D.C, February 2017.
6. Panelist, Transportation Tuesday, Sponsored by Corpus Christi Rapid Transit Authority, Corpus Christi, TX, September 2016.
7. Panelist, Unmanned Aircraft Systems (UAS) in Support of Civilian and Military Operations, AsMA 87th Annual Scientific Meeting, Atlantic City, NJ, April 2016.
8. The Road to Commercialization: Texas A&M University-Corpus Christi, UAS Commercialization Industry Conference, Arlington, VA, June 2015.
9. IQPC UAS Commercialization Industry Conference, Washington, DC, November 2014.
10. Panelist, Aviation's Global Promise—Challenges and Opportunities, AIAA Aviation and Aeronautics Forum and Exposition 2014, Atlanta, GA, June 2014.
11. The Lone Star UAS Test Site. FAA Technical Interchange Meeting. Atlantic City, NJ, March 2014.
12. Research and Development at Texas A&M University-Corpus Christi, Texas A&M University System Industry Day, Corpus Christi, TX, June 2013.
13. Panelist (with Dr. Mario Molina, Nobel Prize Winner), Engineering: Responses to the Challenges of Development – Climate Change, Pan American Academy of Engineering, Mexico City, Mexico, 2012.
14. Proposed EPA Texas Air Impact Research (AIR) Center, Atmospheric Chemistry and Air Quality in Texas: Challenges and Opportunities, CACE Symposium, College Station, TX, 2010
15. Building partnerships between U.S. and Chinese universities: Best practices. APLU Commission on International Programs Summer Meeting, Colorado Springs, CO, 2009
16. Tracing a career path from stable isotope tracers to academic administration. University of Houston, Houston, TX, 2007
17. Stable isotopes in Chemical Oceanography. SACNAS Conference. Portland, OR, 1999
18. Gross isotopic analysis of organic carbon: where, why and from where? College of Marine Studies, University of Delaware. Lewes, DE, 1996
19. Stable nitrogen isotope geochemistry in the Northwest Gulf of Mexico. University of Texas Marine Sciences Institute, Port Aransas, TX, 1995

20. The uses of stable carbon and nitrogen isotopes in estuarine studies: present and future. Virginia Institute of Marine Sciences, Gloucester Point, VA, 1992
21. The application of stable isotopes to estuarine biogeochemical processes. Gordon Research Conference on Estuarine Processes, New Hampton, NH, 1991
22. The application of stable isotopes to estuarine biogeochemical processes. Gordon Research Conference on Estuarine Processes, Ventura, CA, 1988
23. Applications of stable isotopes of carbon and nitrogen to estuarine biogeochemistry, College of Marine Studies, University of Delaware, Lewes, DE, 1987.
24. The natural abundance of stable nitrogen isotopes in estuarine organic matter, College of Geosciences, Texas A&M University, College Station, TX, 1987.
25. The natural abundance of stable nitrogen isotopes in estuarine organic matter, Marine Sciences Program, University of Georgia, Athens, GA, 1987.
26. Sources and biogeochemistry of organic matter in the Delaware Estuary, Washington Organic Geochemistry Colloquium, Washington, DC, 1987.
27. Sources and biogeochemistry of organic matter in the Delaware Estuary, Dissertations Symposium in Chemical Oceanography, Honolulu, HA, 1987.

TEACHING

COURSES TAUGHT

Undergraduate:

- Introduction to Ocean Sciences
- Oceanography
- Freshman Seminar

Graduate:

- Marine Organic Geochemistry
- Estuarine Biogeochemistry

ADVISING

- Chemical Oceanography Student Advisor (1990–1994)

GRADUATE STUDENTS ADVISED

- Jeff Morin, Ph.D. 2007
- Stephanie Gudeman, M.S., 2006

- Carlton Rauschenberg, M.S., 2005
- Roswell Downer, Jr., M.S., 2004
- Brian Jones, M.S., 2002
- Gregory Salata, Ph.D., 1999
- Diego Lopez-Venoni, Ph.D., 1998
- Dan Roelke, Ph.D., 1997
- Jeff Kovacs, M S., 1996
- John Pohlman, M S., 1996
- Lynn Roelke, M.S., 1995
- Shang-Ho Shon, M.S., 1995
- Debbie Hesse, M.S., 1994
- Dan Roelke, M S., 1993

POST-DOCS

- Dr. Mathew Hoch (Ph. D. from University of Delaware)
- Dr. James Kaldy (Ph.D. from University of Texas)