

Patrick Louchouarn, PhD

Texas A&M University at Galveston

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ADMINISTRATIVE EXPERIENCE

Vice President of Academic Affairs & Chief Academic Officer, TAMUG. 2012-present

Serve as Chief Academic Officer and chief research administrator for Texas A&M University's branch campus at Galveston. Associate Provost at Texas A&M University.

- Manage a campus with seven Departments, 125 Faculty, an annual budget of ~\$50M.
- Oversight of research programs (average of \$5-6M per year in research expenditures) and Office of Graduate Studies (three PhD and five Masters programs).
- Develop strategic plan for growth in enrollment, Faculty recruitment, and research programs.
- Develop a strategy to restructure the Departments of Engineering and Technology into a School-like unit with oversight over the diverse engineering degrees.
- Work with Legislature representatives to raise Tuition Revenue Bonds for the construction of a new academic building on campus.
- Lead the strategic positioning of Texas A&M University at Galveston in Texas A&M's Capital Campaign (first time TAMUG is integrated in the campaign of the Texas A&M Foundation).
- Evaluate Department Heads' annual performance and campus wide P&T dossiers (humanities, social sciences, business, maritime transportation, engineering, and natural sciences).

Department Head, Dept. of Marine Sciences. Texas A&M University at Galveston. 2010-2013

Serve as chief administrative officer for academic and research activities of a highly multidisciplinary department at Texas A&M University at Galveston. Monitor and update curriculum. Recruit and retain qualified and diverse faculty/staff. Serve on University level committees including advisory committees. Evaluate Faculty/Staff annual performance.

- Manage an academic unit of 44 Faculty, staff, and postdocs with an annual budget of ~\$2.5M and generating an average of \$3-4M per year in extramural research funds.
- Develop the research and scholarship activities of the Department at both undergraduate and graduate levels: Successfully attracted funds from private foundations and philanthropic organizations to support the development of research programs in environmental/marine sciences.
- Lead the development of a) a Ph.D. program in Marine and Coastal Resources Management, b) a five-years combined B.Sc-M.Sc. professional program in Ocean and Coastal Resources, and c) a collaborative "semester away" program for a B.Sc. in Urban and Regional Planning.
- Initiate the process of Faculty rejuvenation in spite of a very difficult budgetary climate: Through the restructure of expenditures, secured funds to recruit four new Faculty into the Department.
- Mentor junior Faculty towards P&T evaluations. Review of six dossiers during tenure at Texas A&M.

Director of Research, Dept. of Marine Sciences. Texas A&M University at Galveston. 2009-2010

Coordinated the post-award research activities of one of the most active and funded academic departments on campus.

- Coordinated the research activities of the Dept. during a move to a new research Facility on campus.
- Management of administrative staff for post-award management of extramural research funds.

Associate Director, Masters Program in Public Administration (MPA). Columbia University. 2003-2006

Developed and monitored the science curriculum of a new professional graduate degree (MPA) in Environmental Science and Policy at Columbia University's School of International and Public Affairs. Recruited and retained qualified and diverse professional adjunct faculty. Managed teaching assistants. Mentored graduate students in professional internships (research labs or regulatory agencies).

- Ensure the full integration of the science curriculum in the program's social science structure.
- Develop and teach several modules relying on modern educational methods (Environmental Chemistry and Regulatory Toxicology, Ecosystem Functioning and Biogeochemical Cycling, and Hydrology and Climate).
- Contribute to increased enrollment (~40% over 4 years).

EDUCATION

Post-Doc. (NSERC)	Chemical Oceanography, University of Texas at Austin, 1998-1999
Ph.D.	Environmental Sciences, University of Québec in Montréal (UQAM), 1997
M.Sc.	Environmental Sciences, University of Québec in Montréal (UQAM), 1992
B.Sc.	Marine Biology - McGill University, 1989

PROFESSIONAL EXPERIENCE

2011-present	Professor , Dept. of Marine Sciences (Texas A&M University at Galveston) and Dept. of Oceanography (Texas A&M University).
2006-2011	Associate Professor (Tenured by Texas A&M University), Dept. of Marine Sciences (Texas A&M University at Galveston) and Dept. of Oceanography (Texas A&M University).
2002-2006	Associate Professor , Columbia University, Dept. of Earth and Environmental Sciences & School of International and Public Affairs.
2000-2002	Assistant Professor , Texas A&M University-Corpus Christi, Dept. of Physical and Life Sciences.
1999-2000	Associate Research Scientist , Texas A&M Engineering Extension, Research position in environmental geochemistry. Director of environmental laboratory (metals/organics).
1998-1999	Post-Doctoral Fellow , University of Texas at Austin, Marine Science Institute.
1997	Post-Doctoral Fellow , University of Québec in Montréal.
1992-1997	Adjunct Professor , UQAM, Dept. of Earth and Atmospheric Sciences.

EDUCATIONAL ACTIVITIES

Teaching at the university level, since 1992, courses that can be grouped into the three following thematic “threads”: Courses that address the needs of the university core curriculum for general science classes and which are integrated into a “liberal arts” degree structure; courses that are specifically designed as upper level electives for technical careers in science and technology (biotechnology, environmental science, medicinal chemistry) and can be used towards minors in chemistry or as pre-med electives; courses that integrate science analysis into non-research professional majors (pre- and in-service teacher certification, environmental and natural resource management, public policy).

Undergraduate: General Core Curriculum (Science)

- *Earth System Science* (bilingual: English & Spanish; Online version)
- *Environmental Sciences*
- *Oceanography* (also as upper level elective)

Undergraduate: Upper Level Curriculum in Environmental Sciences

- *Instrumental Analysis* (for biotechnology, environmental science, medicinal chemistry)
- *Quantitative Chemical Analysis* (for biotechnology, environmental science, medicinal chemistry)
- *Sophomore and Senior Seminars*

Graduate: Curriculum in Environmental Management

- *Climate Change and Water Resources* (Masters in Public Administration)
- *Ecosystem Functioning and Biogeochemical Cycling* (Masters in Public Administration)
- *Environmental Chemistry and Regulatory Toxicology* (Masters in Public Administration)
- *Environmental Economics in Oceanography* (Masters in Marine Resource Management; Online)

RESEARCH ACTIVITIES

Collaborative funding through a diversity of State to National level programs (NSF, NOAA, NASA, USGS). Some of these applied research efforts provide environmental agencies with the scientific information needed to support effective policies related to water and air quality management at the regional scale. All of these projects supported a number of graduate and undergraduate students.

- Attracted \$1.5M directly to my group out of a total of \$3.3M in collaborative grants (2007-2014).
- 25 Grants since 1997 (see complete list of funded projects below).
- Since joining Texas A&M University – Galveston, raised ~\$900,000 from internal and external funding sources to renew and expand instrument “park” in support of the environmental geochemistry research (2 GC/MSMS, Hg analyzer, CHN analyzer, ASE extractor, LA-ICPMS).

INTERNATIONAL ACTIVITIES

- 2010-present: **Permanent Jury Member (Co-Chair in 2012):** International Partner University Fund - Grant Foundation. U.S. member of a team of 8 jury (4 from U.S. and 4 from France) that recommend funding of international projects (15-20/year) in humanities, social sciences, and natural sciences collaboratively undertaken by French and American institutions (supported by the *Institute for International Education* and the *Mellon Foundation*).
- 2005 **Invited Professor** (Sabbatical), *École de Sciences Politiques* (Sciences Po)/American Center - Paris. Participated in a joint project with a consortium of French universities towards the development of a professional Master program in sustainable development.
- 2005 **Invited Professor** (Sabbatical), *Institut National de Recherche Agricole* (INRA) - Versailles-Grignon. Biogeochemistry of soils and sediments.
- 2001-2002 Developed a bilingual course (Spanish and English) in Earth System Science to fulfill curricular needs in universities of Mexico, Chile, and Puerto Rico thanks to a NASA grant and a MOU with the international *Consortio Educativo para la Protección Ambiental*.

International Research Collaborations

- Dr. Gerard Cornelissen (Norway) - Norway Geotechnical Institute
Dr. Cornelia Rumpel (France) - National Institute of Agricultural Research
Dr. Chonlin Lee (Taiwan) - National Sun Yat Sen University
Dr. Toru Ishikawa (Japan) - University of Tokyo
Dr. Roman Teisserenc (France) – National Polytechnic Institute of Toulouse
Dr. Camilla Snowman Andresen (Denmark) - Geological Survey of Denmark and Greenland
Dr. Marc Lucotte (Canada) - University of Quebec in Montreal
Dr. Yves Gelinás (Canada) - Concordia University
Dr. Laura Sánchez-García (Spain) - Catalan Institute of Climate Sciences (IC3)
Dr. Tibisay Perez (Venezuela) – Venezuelan Institute for Scientific Research (IVIC)

EXTERNAL SERVICE

Series Editor: *Nature: Education-Knowledge Project* (Environmental Sciences). 2011-present

External Reviewer:

External Review Committee: Marine Sciences Laboratory – Pacific Northwest National Laboratory

Tenure and Faculty Dossiers: Georgia State University (Associate Dean - Education); National University of Singapore (Associate Professor of Chemistry).

Proposals - NSF, ACS-PRF, Hudson River Foundation, Irish Research Council for Science, Engineering and Technology (IRCSET), French Agence Nationale de la Recherche, Swiss NSF.

Journals – *Analytical Chemistry; Applied Geochemistry; Biogeochemistry; Biogeosciences; Chemosphere; Environmental Pollution; Environmental Science & Technology; Estuarine, Coastal & Shelf Science; Geochimica et Cosmochimica Acta; Global Biogeochemical Cycles; J. of Environmental Radioactivity; J. of Exposure Science & Environmental Epidemiology; J. of Geophysical Research-Biogeosciences; Limnology & Oceanography; Marine Chemistry; Organic Geochemistry; Soil Science Society of America J.; Wetlands.*

INSTITUTIONAL SERVICE

- 2012-present: Member of Advisory Councils of the Executive Vice President and Provost (Texas A&M University) and of the Vice Chancellor (Texas A&M System).
- 2010-2012: Member, Advisory committees of the V.P. of Academics and Research, Assessment Council Committee, and Academic Advisory Council Committee (Texas A&M Galveston)
- 2006-present: Member, Graduate Instruction Committee (Texas A&M Galveston)
- 2008-2011: Member, Faculty Senate and Diversity Sub-Committee (Texas A&M University)
- 2007: Chair, Tenure & Promotion Review Committee (Texas A&M Galveston, Dept. Marine Sciences)
- 2007-2011: Member, University Research Advisory Committee (Texas A&M Galveston)
- 2007-2010: Member, Graduate Recruiting and Academic Advisory Committee (Texas A&M)
- 2007-2008: Member, University Academic Enhancement Steering Committee (TAMUG)
- 2007: Member, Chemical Oceanography Faculty Search (Texas A&M)

- 2003-2006: Associate Director and Science Curriculum Director – Masters of Public Affairs in Environmental Science and Policy (Columbia University)
- 2003-2006: Graduate Admissions Committee – MPA-ESP (Columbia University)
- 2004-2005: Graduate Admissions Committee (Columbia University, Earth & Environmental Sciences)

AWARDS

- 2010: Distinguished Achievement Award. Texas A&M University - Association of Former Students.
- 1998-2000: Post-Doctoral - NSERC
- 1994-1996: Eco-Research, Canadian Ministry of the Environment (Ph.D.)
- 1992-1994: NSERC (Ph.D.)
- 1993-1994: Scientific Council of Québec (Ph.D.)
- 1991-1992: Fondation Université du Québec (M.Sc.)
- 1989: Penhallow Price in Biology (McGill University).
- 1987-1989: University Scholar Fellowships (McGill University).

PROFESSIONAL MEMBERSHIPS

American Chemical Society
 American Society of Limnology & Oceanography
 American & European Geophysical Union

GRADUATE AND UNDERGRADUATE STUDENTS

- Matt Norwood, (Advisor): Ph.D. ongoing. Texas A&M University – Oceanography. B.Sc. Senior Thesis. Texas A&M University. 2011
- Allison Myers-Pigg, Ph.D. ongoing (Advisor): Texas A&M University - Oceanography.
- Kendra Kopp, (Advisor): M.Sc. ongoing. Texas A&M University at Galveston. B.Sc. Honors Senior Thesis. Texas A&M University. 2012-2013.
- Ching-Ping Lu, Ph.D. ongoing (Thesis Committee). Texas A&M University - Oceanography.
- Josh Williams, Ph.D. ongoing (Thesis Committee). Texas A&M University - Oceanography.
- Mohammad Al Mukaimi, M.Sc. (Thesis Committee). Texas A&M University - Oceanography. 2013
- Xin-Xin Li, Ph.D. (Thesis Committee). Texas A&M University – Oceanography. 2012
- Sally Walker, Ph.D. (Thesis Committee). Texas A&M University - Oceanography. 2012
- Kaycee Peirce, B.Sc. Honors Senior Thesis. (Advisor). Texas A&M University. 2012
- Richard Smith, Ph.D. (Thesis Committee). Texas A&M University - Oceanography. 2011
- Kandice Williams, NSF-REU (Summer 2011)
- Heili Lowman, NSF-REU (Summer 2010)
- Stacey Moller, NSF-REU (Summer 2010)
- Shaya M. Seward, M.Sc. (Advisor). Texas A&M University - Oceanography. 2010
- Omar R. Harvey, Ph.D. (Thesis Committee). Texas A&M University - Geology & Geophysics. 2010
- Li-Jung Kuo, Ph.D. (Co-Advisor). Texas A&M University - Geology & Geophysics. 2009
- Brandon Laroy, M.Sc. (Thesis Committee). Texas A&M University - Fisheries. 2009
- Ryan Schloesser, M.Sc. (Thesis Committee). Texas A&M University - Fisheries. 2009
- Danielle Aguirre, B.Sc. Senior Thesis. (Advisor). Texas A&M University. 2010
- Christina Pondell, B.Sc. Senior Thesis. (Advisor). Texas A&M University. 2009
- Marie Alexis, Ph.D. (External Thesis Reviewer). Université Pierre et Marie Curie. 2007
- Lillian Pitts, MPA (Advisor). Columbia University. 2004
- Stephane Houel, Ph.D. (Thesis Committee). University of Québec in Montréal. 2003
- April Patterson, MPA (Advisor). Columbia University. 2003
- Brion Dolan, B.Sc. Senior Thesis. (Advisor). Texas A&M University-Corpus Christi. 2002
- Jill Brandenberger, M.Sc. (Advisor). Texas A&M University–Corpus Christi. 2001
- Jason Clark, M.Sc. (Advisor). Texas A&M University– Corpus Christi. 2001

POST-DOCTORAL ASSOCIATES

- Dr. Stephane Houel, University of Québec in Montréal. 2003-2005

PEER-REVIEWED PUBLICATIONS (Students/Post Docs underlined)

Papers in Preparation (Draft in existence)

Louchouart, P., J.M. Brandenberger, L.-J. Kuo, E.A. Crecelius, V. Cullinan G.A. Gill, C. Garland, J. Williamson, and R. Dhammapala. (2013 – *In Preparation*). Contribution of atmospheric deposition to annual loads of heavy metals, fire retardants, and combustion-derived PAHs to the surface of Puget Sound, WA. *Atmospheric Environment*.

Myers-Pigg, A.N., **P. Louchouart**, R.M.W.Amon, K. Peirce, and A. Prokushkin. (2013 – *In Preparation*). Labile pyrogenic DOC in major Arctic rivers: Implications for wildfire-stream metabolic linkages. *Science*.

Norwood, M., **P. Louchouart**, L.-J. Kuo, and O.R. Harvey (2013 – *In Preparation*). The selective solubilization of Pyrogenic Water Soluble Organic Matter (Py-WSOM) extracted from low to mid temperature charcoals. *Environmental Science & Technology*.

Armitage, A.R., W.E. Highfield, M.J. Norwood, N. White, S.D. Brody, and **P. Louchouart** (2013 – *In Preparation*). Mangrove expansion on the Texas coast from 1990-2010. *Global Change Biology*.

Papers in Print

44. Brunner C.A., S. Simpson, J. Keim, R. Hatch, K.M. Yeager, K.B. Briggs, and **P. Louchouart**. (2013). Effects of oil from the Macondo Well blowout on marsh foraminifera of Mississippi and Louisiana, USA. *Environmental Science & Technology*. Vol. 47, 9115–9123.

43. Masiello, C.A. and **P. Louchouart**. (2013). Fire in the Ocean. *Science*. Vol. 340(6130), 287-288.

42. Sánchez-García, L. J.R. de Andrés, Y. Gélinas, M.W.I. Schmidt, **P. Louchouart**. (2013). Different pools of black carbon in sediments from the Gulf of Cádiz (SW Spain): method comparison and spatial distribution. *Marine Chemistry*. Vol. 151, 13-22.

41. Norwood, M., **P. Louchouart**, L.-J. Kuo, and O.R. Harvey (2013). Characterization and biodegradation of water-soluble organic matter extracted from low-temperature charcoals. *Organic Geochemistry*. Vol. 56, 111–119.

40. Harvey, O.R., B.E Herbert, L.-J. Kuo, and **P. Louchouart**. (2012). Two-dimensional perturbation-based correlation infrared spectroscopy (2D-PCIS) reveals mechanisms by which biochars develop surface charge and resistance to environmental degradation. *Environmental Science & Technology*. Vol. 46(19), 10641-10650.

39. Amon, R.M.W, A.J. Rinehart, S. Duan, **P. Louchouart**, P. Raymond, R.M. Holmes, J.W. McClelland, B.J. Peterson, G. Guggenberger, A. Prokushkin, C. Stedmon, S.A.Walker. (2012). Dissolved organic matter sources in large Arctic rivers. *Geochimica et Cosmochimica Acta*. Vol. 94, 217–237.

38. **Louchouart, P.**, L.-J. Kuo, J. Brandenberger, F. Marcantonio, C. Garland, G. Gill, and V. Cullinan. (2012). Pyrogenic inputs of anthropogenic Pb and Hg to sediments of the Hood Canal, Washington, in the 20th century: Source evidence from elemental ratios, stable Pb isotopes, and PAH signatures. *Environmental Science & Technology*. Vol. 46(11), 5772–5781.

37. Harvey, O.R., L.-J. Kuo, A.R. Zimmerman, **P. Louchouart**, J.E. Amonette, B.E Herbert. (2012). An index-based approach to assessing recalcitrance and soil carbon sequestration potential of engineered black carbons (biochars). *Environmental Science & Technology*. Vol. 46(3), 1415–1421.

36. Shakya, K.M., **P. Louchouart**, and R.J. Griffin. (2011). Lignin-derived phenols in Houston aerosols: Implications for natural background sources. *Environmental Science & Technology*. Vol. 45(19), 8268-8275.

35. Kuo, L.-J., **P. Louchouart**, and B.E. Herbert. (2011). Influence of combustion conditions on yields of solvent-extractable anhydrosugars and lignin phenols in chars: Implications for characterizations of biomass combustion residues. *Chemosphere*. Vol. 84, 797–805.

34. Brandenberger, J.M., **P. Louchouart**, and E. Crecelius. (2011). Natural and post urbanization signatures of hypoxia in two basins of Puget Sound: Historical reconstruction of redox sensitive metals and organic matter inputs. *Aquatic Geochemistry*. Vol. 17(4), 645-670.

33. Kuo, L.-J., **P. Louchouart**, B. Herbert, J. Brandenberger, T. Wade, and E. Crecelius. (2011). Combustion-derived substances in deep basins of the Puget Sound: Historical inputs from fossil fuel

and biomass combustion. *Environmental Pollution*. Vol. 159, 983-990.

32. Ishikawa, T., A.G. Barnston, K.A. Kastens, and **P. Louchouart**. (2011). Understanding, evaluation, and use of climate forecast data by environmental policy students. In A.D. Feig and A. Stokes (Eds.), *Qualitative inquiry in geoscience education research*. Boulder, CO: GSA (Special Paper 474). doi:10.1130/2011.2474(11).
31. **Louchouart P.**, R. Amon, S. Duan, C. Pondell, S.M. Seward, and N. White. (2010). Analysis of lignin-derived phenols in standard reference materials and dissolved organic matter by gas chromatography/tandem mass spectrometry. *Marine Chemistry*. Vol. 118, 85–97.
30. **Louchouart, P.**, L.-J. Kuo, T.L. Wade, and M. Schantz. (2009). Determination of levoglucosan and its isomers in size fractions of aerosol standard reference materials. *Atmospheric Environment*. Vol. 43, 5630-5636.
29. Walker, S.A., R.M.W. Amon, C. Stedmon, S. Duan, **P. Louchouart**. (2009). The use of PARAFAC modeling to trace river water in the Canadian Archipelago. *JGR-Biogeosciences*. Vol. 114, G00F06, DOI:10.1029/2009JG000990.
28. Schloesser, R.W., J.R. Rooker, **P. Louchouart**, J.D. Neilson, and D.H. Secor. (2009). Inter-decadal variation in ambient oceanic $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$ recorded in fish otoliths. *Limnology & Oceanography*. Vol. 54(5), 1665–1668.
27. Sánchez-García, L., J. Ramón de-Andrés, A. Martín-Rubí, and **P. Louchouart**. (2009). Diagenetic state and source characterization of marine sediments from the inner continental shelf of the Gulf of Cádiz (SW Spain), constrained by terrigenous biomarkers. *Organic Geochemistry*. Vol. 40(2), 184-194.
26. Kuo, L.-J., **P. Louchouart**, and B.E. Herbert. (2008). Fate of CuO-derived lignin oxidation products during plant combustion: Application to the evaluation of char inputs to soil organic matter. *Organic Geochemistry*. Vol. 39, 1522–1536.
25. Brandenberger, J., E. Creelius, and **P. Louchouart**. (2008). Historical inputs and natural recovery rates of heavy metals and organic biomarkers in Puget Sound during the 20th century. *Environmental Science & Technology*. Vol. 42(18), 6786–6790.
24. Kuo, L.-J., B.E. Herbert, and **P. Louchouart**. (2008). Can levoglucosan be used to characterize and quantify char/charcoal black carbon in environmental media? *Organic Geochemistry*. Vol. 39, 1466-1478.
23. Hammes, K., M.W.I. Schmidt, L.A. Currie, W.P. Ball, T.H. Nguyen, **P. Louchouart**, and co-authors. (2007). Comparison of quantification methods to measure fire-derived (black/elemental) carbon in soils and sediments using reference materials from soil, water, sediment and the atmosphere. *Global Biogeochemical Cycles*. doi:10.1029/2006GB002914.
22. **Louchouart P.**, S. Chillrud, S. Houel, B. Yan, D. Chaky, C. Rumpel, C. Largeau, G. Bardoux, D. Walsh, and R.F. Bopp (2007). Elemental and isotopic evidence of soot- and char-derived black carbon inputs to New York City's atmosphere during the 20th Century. *Environmental Science & Technology*. Vol. 41(1), 82-87.
21. **Louchouart, P.**, T. Naehr, J. Silliman, and S. Houel. (2006). Elemental, stable isotopic ($\delta^{13}\text{C}$), and molecular signatures of organic matter in late Pleistocene to Holocene sediments from the Peruvian margin (ODP Site 1229). In Jørgensen, B.B., D'Hondt, S.L., and Miller, D.J. (Eds.), *Proceedings of the Ocean Drilling Program*, Scientific Results, 201: 1-21.
20. Houel S., **P. Louchouart**, M. Lucotte, R. Canuel and B. Ghaleb. (2006). Translocation of soil organic matter following reservoir impoundment in boreal systems: Implications for in-situ productivity. *Limnology & Oceanography*. Vol. 51(3), 1497–1513.
19. Benner, R., **P. Louchouart**, and R. Amon. (2005). Terrigenous DOM in the Arctic Ocean and its transport to shallow and deep waters of the North Atlantic. *Global Biogeochemical Cycles*. Vol. 19.
18. Ishikawa, T., A. Barnston, K.A. Kastens, **P. Louchouart**, and C. Ropelewski. (2005). Testing the efficacy of climate forecast maps as a means of communicating with policy makers. *Cartography & Geographic Information Science*. Vol. 32(1), 3-16.
17. Page, C.A., C. Fuller, R.L. Autenrieth, J.S. Bonner, **P. Louchouart**, P. Tissot, and T. McDonald.

(2005) Shoreline cleaner use in a sandy beach environment. *2005 International Oil Spill Conference*, p: 7696-7699.

16. Brandenberger J., **P. Louchouart**, B.E. Herbert, and P. Tissot. (2004). Geochemical and hydrodynamic controls on arsenic and other trace metal cycling in a seasonally stratified US sub-tropical reservoir. *Applied Geochemistry*. Vol. 19, 1601-1623.
15. Farella, N., M. Lucotte, **P. Louchouart**, and M. Roulet. (2001). Deforestation at the origin of modified terrigenous organic matter inputs to the Rio Tapajos, Brazilian Amazon. *Organic Geochemistry*. Vol. 32, 1443-1458.
14. **Louchouart**, P., S. Opsahl, and R. Benner. (2000). Isolation and quantification of dissolved lignin from natural waters using solid-phase extraction (SPE) and GC/MS Selected Ion Monitoring (SIM). *Analytical Chemistry*. Vol. 13, 2780-2787.
13. **Louchouart**, P., J. Bonner, C. Page, P. Tissot, and T. McDonald. (2000). Quantitative determination of oil films/slicks from water surfaces using a modified solid-phase extraction (SPE) sampling method. *Proceedings of the 23rd AMOP Meeting*, Vancouver, Canada. Vol. 1, p: 59-68.
12. Tissot P., C. Fuller, **P. Louchouart**, J. Bonner, S. Dellamea, D. and Bujnoch. (2000). Quantitative Method for Surface Oil Measurement and Recovery Based on a New Type of Low Impact Skimmer. *Proceedings of the 23rd AMOP Meeting*, Vancouver, Canada. Vol. 1, 353-366.
11. Page C., J. Bonner, **P. Louchouart**, P. Tissot, C. Fuller, and T. McDonald. (2000). Materials Balance on an Oil Washed from a Sandy Substrate using Shoreline Cleaners. *Proceedings of the 23rd AMOP Meeting*, Vancouver, Canada. Vol. 2, 697-708.
10. Fuller C., J. Bonner, S. Dellamea, S. Ussery, C. Page, P. Tissot, **P. Louchouart**, and T. McDonald. (2000). Comparative Ecological Effects of Sandy Shoreline Cleaners. *Proceedings of the 23rd AMOP Meeting*, June 2000, Vancouver, Canada. Vol. 2, 795-804.
9. **Louchouart**, P., M. Lucotte, and N. Farella. (1999). Historical and geographical variations of sources and transport of terrigenous organic matter within a large-scale coastal environment. *Organic Geochemistry*. Vol. 30, 675-699.
8. Klap, V.A., **P. Louchouart**, J.J. Boon, M.A. Hemminga, and J. van Soelen. (1999). Lignin decomposition dynamics for six salt marsh halophytes as determined by cupric oxide oxidation and pyrolysis mass spectrometry. *Limnology & Oceanography*. Vol. 44(6), 1458-1476.
7. **Louchouart**, P. and M. Lucotte. (1998). A historical reconstruction of organic and inorganic contamination events in the Saguenay/St-Lawrence system from preindustrial times to the present. *The Science of the Total Environment*. Vol. 213, 139-150.
6. **Louchouart**, P., M. Lucotte, R. Canuel, L-P. Richard, and J-P. Gagné. (1997). Sources and early diagenesis of lignin and bulk organic matter in recent sediments from the Lower St. Lawrence Estuary and the Saguenay Fjord, Canada. *Marine Chemistry*. Vol. 58, 3-26.
5. **Louchouart**, P., M. Lucotte, E. Duchemin, and A. de Vernal. (1997). Early diagenetic processes in recent sediments of the Gulf of St. Lawrence: Phosphorus, Carbon, and Iron burial rates. Special Issue on phosphorus cycling and sedimentation. *Marine Geology*. Vol. 139, 181-200.
4. **Louchouart**, P., M. Lucotte, and N. Silverberg. (1996). Source variations and reactivity of terrigenous organic biomarkers in settling particulate matter and sediments from the Lower St. Lawrence Estuary, Canada. *Proceedings from the "4th International symposium on the geochemistry of the earth's surface"*, July 22-28, 1996. Ilkley, England. 307-312.
3. Farella, N, M. Lucotte, **P. Louchouart**, M. Roulet, R. Canuel, and S. Tran. (1996). Use of lignin-derived phenols as tracers of soil erosion in Amazonian Rivers. *Proceedings from the "4th International symposium on the geochemistry of the earth's surface"*, July 22-28, 1996. Ilkley, England. 406-408.
2. **Louchouart**, P., M. Lucotte, A. Mucci, and P. Pichet. (1993). Geochemistry of mercury in two hydroelectric reservoirs of Québec, Canada. *Canadian Journal of Fisheries & Aquatic Sciences*. Vol. 50 (2), 269-281.
1. Lucotte M., C. Hillaire-Marcel, and **P. Louchouart**. (1989). First order organic carbon budget in the St. Lawrence Lower Estuary From ¹³C data. *Estuarine, Coastal and Shelf Science*. Vol. 32, 297-312.

Peer-Reviewed Technical Reports

8. Brandenberger, J.M., **P. Louchouart**, L-J Kuo, E.A. Crecelius, V. Cullinan G.A. Gill, C. Garland, J. Williamson, and R. Dhammapala (2010). Control of Toxic Chemicals in Puget Sound, Phase 3: Study of Atmospheric Deposition of Air Toxics to the Surface of Puget Sound. Air Quality Program, Washington State Department of Ecology. Olympia, Washington.

Non Peer-Reviewed

7. **P. Louchouart**, R. Brinkmeyer, H.P. Arp, L-J. Kuo, U. Ghosh, W. Highfield, S. Brody. (2011). Pilot study for *in situ* remediation of legacy pollutants in Texas aquatic systems using geosorbent amendment. Report (No. 582-10-90493-01) to *Texas Commission of Environmental Quality*.
6. **Louchouart, P.** and R. Brinkmeyer. (2009). Fate of dioxins in the Houston Ship Channel and evaluation of Natural Remediation Processes. Texas Commission on Environmental Quality, Total Maximum Daily Load Program. Austin, Texas.
5. Brandenberger, J., G.A. Gill, E. Crecelius, **P. Louchouart**, and L-J. Kuo (2010). Study of Atmospheric Deposition of Air Toxics to the Waters of Puget Sound: Year One Data Report. Department of Ecology - State of Washington, Olympia, Washington.
4. Santschi P.H., K.M. Yeager, R. Brinkmeyer, and **P. Louchouart**. (2009). Factors regulating microbial degradation of dioxins in estuarine sediments: Houston Ship Channel and Galveston Bay, Texas. Texas Sea Grant, College Station.
3. Brandenberger, J., E. Crecelius, **P. Louchouart** et al. (2008). Reconstructing trends in hypoxia using multiple paleoecological indicators recorded in sediment cores from Puget Sound, WA. NOAA Coastal Hypoxia Research Grant Number: NA05NOS4781203
2. **Louchouart, P.** (2001). Of Excellence and Trends in the Ivory Tower. Fronteras, Version 01.310a. Texas A&M University System, College Station and Corpus Christi, Texas. (11 October 2001).
1. **Louchouart, P.** (1997). La lignine et le Saguenay: Sommes nous sortis du bois. Profils Saguenay (INRS Publication). Vol. 2(2), 5-6.

Presentations

70. Armitage, A.R., W.E. Highfield, M.J. Norwood, N. White, S.D. Brody, and **P. Louchouart** (2013). Mangrove expansion on the Texas coast: implications for blue carbon storage in coastal wetlands. 22nd Biennial Conference of the Coastal and Estuarine Research Federation. 3-7 Nov. San Diego, CA.
69. Myers-Pigg, A.N., **P. Louchouart**, R.M.W.Amon, K. Peirce, and A. Prokushkin. (2013). Implications for significant loss of labile pyrogenic DOC in major Arctic rivers. 125th GSA Annual Meeting. 27-30 October. Denver, Colorado.
68. Dean Kopp' K.N., **P. Louchouart**, K. Kjær, C. Snowman Andresen, P. Ilsøe' (2013). A 300 Years Record of Polycyclic Aromatic Hydrocarbons in Lake Botanisk, Copenhagen: Historical Reconstruction of Combustion Processes in a Scandinavian Urban Lake. 24th Meeting of the International Society for Polycyclic Aromatic Compounds. 8-12 September. Corvallis, Oregon.
67. **Louchouart, P.**, R.M.W.Amon, K. Peirce, A.N. Myers-Pigg, and A. Prokushkin' (2013). Molecular evidence of labile pyrogenic DOC in major Arctic rivers: Implications for wildfire-stream metabolic linkages. Aquatic Sciences Meeting, 17-22 February. New Orleans, Louisiana.
66. Norwood, M.J., **P. Louchouart**, A.R. Armitage, N. White, W.E. Highfield, and S.D. Brody (2013). Fluxes and Inventories of Blue Carbon in Texas Wetlands: Measuring Ecological Shifts from Coastal Salt Marsh to Mangrove Dominated Wetlands. Aquatic Sciences Meeting, 17-22 February, New Orleans, Louisiana.
65. Highfield, W.E., A.R. Armitage, M.J. Norwood, N. White, S.D. Brody, and **P. Louchouart** (2013). Geographical and historical shifts in blue carbon sequestration in Texas wetlands. Aquatic Sciences Meeting, 17-22 February, New Orleans, Louisiana.
64. Cruz, V.J., C.A. Brunner, K.M. Yeager, K.B. Briggs, and **P. Louchouart** (2013). Bathyal assemblages of live, benthic foraminifera near the Deepwater Horizon oil spill, Northern Gulf of Mexico. GSA Southeastern Meeting, 20-21 March, San Juan, Puerto Rico.

63. Brunner, C.A., K.M. Yeager, K.B. Briggs, J. Keim, **P. Louchouart**, R.S. Hatch, K.J. Schindler (2012). Effect of oil contamination on infauna of Louisiana and Mississippi marshes with implications for marsh functioning. AGU Fall Meeting 2012, Dec. 03-07, San Francisco, California
62. Brunner, C.A., J. Keim, K.M. Yeager, K.B. Briggs, **P. Louchouart** (2012). The effect of oil from the Macondo blowout on infaunal foraminifera of Louisiana and Mississippi marshes. 2012 GSA Annual Meeting, 04–07 November, Charlotte, North Carolina.
61. Pondell, C.R., E.A. Canuel, A.J. Beck and **P. Louchouart** (2012). Response of organic carbon accumulation in Englebright Lake, CA to climate and anthropogenic impacts in the watershed. ASLO-AGU Ocean Meeting, Feb. 20-24, Salt Lake City, Utah.
60. Shiller, A.M., D. Joung, T. Wade, J. Sericano, S. Sweet, K. Yeager, C. Brunner, and **P. Louchouart**. (2012). Polycyclic Aromatic Hydrocarbon Distribution and Modification from wellhead to coastal marshes. ASLO-AGU Ocean Meeting, Feb. 20-24, Salt Lake City, Utah.
59. **Louchouart, P.**, L.-J. Kuo, J.M. Brandenberger, C.S. Andresen, K.H. Kjær, and M. Dalton. (2011). Power and Limitations of Anhydrosugars to Trace Historical Natural and Anthropogenic Inputs of charcoal BC to Aquatic Systems. AGU Fall Meeting 2011, Dec. 05-09, San Francisco, California.
58. Norwood, M., **P. Louchouart**, and L.-J. Kuo. (2011). Structural Characterization and Reactivity of Pyrogenic Water-Soluble Organic Matter Derived from Biomass Combustion. AGU Fall Meeting 2011, Dec. 05-09, San Francisco, California.
57. Walker S.A., R.M.W. Amon, C. Stedmon, **P. Louchouart**. (2011), Source, Fate and Distribution of Chromophoric Dissolved Organic Matter in the Arctic Ocean, AGU Fall Meeting 2011, Dec. 05-09, San Francisco, California
56. **Louchouart, P.**, L.-J. Kuo, J. Brandenberger, F. Marcantonio, G. Gill, and C. Garland. (2011). Historical inputs of combustion-derived Pb and Hg to watersheds of the Hood Canal, USA: Evidence from Pb isotope and PAH signatures. 2011 Salish Sea Ecosystem Conference, Oct. 25-27, Vancouver, Canada.
55. Kuo, L.-J, **Louchouart, P.**, J.M. Brandenberger, E.A. Crecelius, V. Cullinan, G.A. Gill, C. Garland, J. Williamson, D.E. Leisle, and R.K. Johnston. (2011). Atmospheric deposition of metals and combustion-derived aerosols to the surface of Puget Sound: Sources and annual loads. 2011 Salish Sea Ecosystem Conference, Oct. 25-27, Vancouver, Canada.
54. Shakya, K.M., **P. Louchouart**, and R.J. Griffin. (2011). Lignin derived phenols in Houston aerosols: Implications for natural background sources. 30th American Association for Aerosol Research. Oct. 3-7, Orlando, Florida.
53. Norwood, M., J. Cleveland, K. Crisp, M. Dalton, M. Dunn, P. Gandy, J. Granberry, J. Spurgin, K. Zdun, S. Walker, and **P. Louchouart**. (2011) Reactivity of charcoal-derived water-soluble biomarkers in river water. 241st ACS National Meeting. March 27-31, Anaheim, California.
52. **Louchouart P.**, K.M. Yeager, C.A. Brunner, K. Briggs, L. Guo, V. Asper, N. Couey, C. Fortner, J. Prouhet, K.J. Schindler, K.M. Martin, Z. Zhou, J. Loeffler, A. Jung, V. Cruz (2011) Deepwater Horizon: Coastal ocean to marsh margin sediment impacts. 241st ACS National Meeting. March 27-31, Anaheim, California.
51. **Louchouart, P.**, S. Seward, R. Brinkmeyer, G. Cornelissen, K. M. Yeager, and P.H. Santschi. (2010). Role of black carbon and amorphous organic carbon on the partition of dioxins and other hydrophobic organic contaminants in sediments of the San Jacinto Super Fund site, Houston Ship Channel. Dioxin 2010: 30th International Symposium on Halogenated Persistent Organic Pollutants, September 12-17, San Antonio, Texas.
50. Yeager, K.M., **P. Louchouart**, R. Brinkmeyer, P.H. Santschi, K.J. Schindler. (2010). Reconstructing historical dioxin contamination in the Houston Ship Channel and Galveston Bay, Texas, by sediment radiodating. Dioxin 2010: 30th International Symposium on Halogenated Persistent Organic Pollutants, September 12-17, San Antonio, Texas.
49. Brandenberger, J.M., **P. Louchouart**, E.A. Crecelius, G. Gill, L.-J. Kuo¹, V. Cullinan, and J. Williamson (2010). Deposition in the Puget Sound. Georgia Basin-Puget Sound IAS Coordinating Committee Meeting. "Energy for Healthy Transboundary Air and Ecosystems". 20–22 October, EPA R. 10 Office, Seattle, WA.

48. Brinkmeyer R, A.S.C. Hieke-Rambo, S. Zhang, C. Xu, K. Schindler, **P. Louchouart**, K.M. Yeager, P.H. Santschi. (2010). Factor influencing microbial degradation of dioxins in the Houston Ship Channel and Galveston Bay, Texas. Dioxin 2010: 30th International Symposium on Halogenated Persistent Organic Pollutants, September 12-17, San Antonio, Texas.
47. Pondell, C., E. Canuel, and **P. Louchouart**. (2010). Sources of organic carbon to reservoirs impounded by dams using Englebright Lake as a model system. 6th Biennial Bay-Delta Science Conference, Sept. 27-29.
46. **Louchouart**, P., L.-J. Kuo, J.M. Brandenberger, E. Crecelius, G. Gill, and D. Aguirre. (2010). Deposition of combustion-derived aerosols at the air-sea interface of a major coastal urban system of the Pacific Northwest (Puget Sound, WA). ASLO/AGU Ocean Meeting, Feb. 22-26, Portland, Oregon.
45. Kuo, L.-J., **P. Louchouart**, B.E. Herbert, J.M. Brandenberger, T.L. Wade, and E. Crecelius. (2010). Combustion-derived substances in deep basins of Puget Sound: Historical inputs from fossil fuel and biomass combustion. ASLO/AGU Ocean Meeting, Feb. 22-26, Portland, Oregon.
44. Amon, R.M. S.A. Walker, **P. Louchouart**, S. Duan, R.H. Benner, K. Kaiser, and C.A. Stedmon. (2010) The use of river water tracers to improve our understanding of surface ventilation in the Arctic Ocean. ASLO/AGU Ocean Meeting, Feb. 22-26, Portland, Oregon.
43. Brandenberger, J.M., E. Crecelius, G. Gill, **P. Louchouart**, and L.-J. Kuo. (2010). Study of Atmospheric Deposition of Inorganic Air Toxics to the Waters of the Urban Ecosystem of Puget Sound, WA, USA. ASLO/AGU Ocean Meeting, Feb. 22-26, Portland, Oregon.
42. Seward, S.M., **P. Louchouart**, R. Brinkmeyer, G. Cornelissen, K. Yeager, and P. Santschi. (2009). Black carbon and amorphous organic carbon distribution in sediments of the Houston Ship Channel: Implications for PAH and dioxin speciation and bioavailability. Coastal & Estuarine Research Federation, 20th Biennial Conference, Nov. 1-5.
41. Amon, R.M.W., S.A. Walker, **P. Louchouart**, S. Duan, A. Rinehart, R. Benner, K. Kaiser, C. Stedmon, B. Newton, P. Schlosser. (2009). The use of river water tracers to improve our understanding of surface ventilation in the Arctic Ocean. Gordon Conference, Polar Marine Science. Beyond IPY: Crossing Boundaries. March 15-20.
40. **Louchouart**, P., L.-J. Kuo, F. Marcantonio, J. Brandenberger, and E. Crecelius. (2008). Using sediment records to reconstruct historical inputs of combustion-derived contaminants to urban airsheds/watersheds: A case study from the Puget Sound System. AGU Fall Meeting, Dec. 15-19.
39. Kuo, L.-J., **P. Louchouart**, and B.E. Herbert. (2008). Understanding the impact of charcoal inputs to soils and sediments on conventional geochemical markers. AGU Fall Meeting, Dec. 15-19.
38. Brandenberger, J., E. Crecelius, and **P. Louchouart**. (2008). Relationship between Pacific Decadal Oscillation and paleo-tracers of hypoxia in sediment cores from Puget Sound, WA. AGU Fall Meeting, Dec. 15-19.
37. Rinehart, A.J. R.M.W. Amon, **P. Louchouart**, S. Duan, B.J. Peterson, J.W. McClelland, and R.M. Holmes. (2008). Dissolved organic matter discharge from the six largest Arctic Rivers: chemical composition and seasonal variability. AGU Fall Meeting, Dec. 15-19.
36. **P. Louchouart**, (2008). How authentic can scientific inquiry be in the classroom, and does it matter? A case study addressing graduate professional programs in environmental sciences. GSA Meeting, Oct. 5-9, 2008. Vol. 40, No. 6, p. 215
35. **P. Louchouart**, L.-J. Kuo, and B.E. Herbert. (2008). Potential impacts of charcoal on paleoreconstructions of organic matter inputs to aquatic systems. ASLO/AGU Ocean Meeting, March 2-7.
34. Brandenberger, J.M., E. Crecelius, **P. Louchouart**, S. Cooper, E. Leopold, and K. McDougall (2008). Natural sources of nutrient enrichment: Relationships between large-scale climate drivers and trends in hypoxia recorded in sediment cores from Puget Sound, WA. ASLO/AGU Ocean Meet., 4-7March.
33. Cooper, S., J.M. Brandenberger, E. Crecelius, **P. Louchouart**, E. Leopold, and K. McDougall (2008). Reconstructing trends in hypoxia using multiple paleoecological indicators recorded in sediment cores from Puget Sound, WA. ASLO/AGU Ocean Meeting, March 4-7.
32. Cooper, S.H. J.M. Brandenberger, E. Crecelius and **P. Louchouart**. (2007). Puget Sound and Hood

Canal: Past 300 Years. Estuarine Research Federation, November 4-8.

31. **Louchouart, P.**, J.M. Brandenberger, and E. Crecelius (2007). Historical reconstruction of reduced oxygen levels in deep waters of Puget Sound: biogeochemical and Physical constraints on hypoxia conditions. ASLO Aquatic Sciences Meeting, February 4-9.
30. **Kuo, L.-J.**, B.E. Herbert, and **P. Louchouart**. (2006). Molecular marker approach on characterizing and quantifying charcoal in environmental media. AGU. December 04.
29. **Kuo, L.-J.**, B. E. Herbert and **P. Louchouart**. (2006) Validating levoglucosan as an indicator for charcoal presence in environmental media: A laboratory study. In: BC/nanoC Geochemistry Symposium, Rice University, Houston, TX, USA, Aug.
28. Alexis, M.A., C. Rumpel, **P. Louchouart**, N. Péchot, D. Rasse and A. Mariotti, (2006). Production of two biomass burning tracers during a prescribed fire: Black carbon vs levoglucosan. Soil Sciences Society of America Annual Meeting. November 12-16.
27. **Kuo, L.-J.**, B.E. Herbert, and **P. Louchouart**. (2006). Validating levoglucosan as an indicator for charcoal presence in environmental media: A laboratory study. Rice University Black Carbon Meeting. August 23, 2006.
26. **Louchouart P.** (2005). Double standards in public policy? Acknowledging the burden on science in decision-making. Invited conference at Sciences Po – Chair in Sustainable Development. April 22.
25. **Louchouart P.**, and S. Houel. (2005). Soot/black carbon vs. chars in environmental media: Potential discrimination between these combustion by-products through elemental, molecular, and bulk isotopic analyses. EGU/AGU Joint Meeting, Vienna, Austria, April 24-29.
24. Benner, R., **P. Louchouart**, and R. Amon. (2005). An Arctic source for terrigenous dissolved organic carbon in North Atlantic deep water. ASLO Summer Meeting, Santiago de Compostela, Spain. June 19-24.
23. **Louchouart P.**, S. Houel, D. Peteet, and R. Sambrotto. (2005). "Paleofire history and bulk isotopic markers: Potential biases in source reconstruction of carbon sources to wetland sediments". ASLO Aquatic Meeting, Salt Lake City, UT, Feb. 20-24.
22. **Louchouart P.**, S. Houel, and M. Lucotte. (2004). "The role of pulse dynamics and watershed-scale anthropogenic impacts on estuarine cycling of terrigenous organic matter". 2004 AGU-CGU Joint Assembly, Montreal, Qc. May 17-21.
21. **Louchouart P.**, D. Peteet, D. Pederson, S. Houel, and T. Filley. (2004). "The impact of long-term hydrological fluctuations on changes in vegetation and carbon fluxes in Hudson Estuary wetlands". 227th ACS National Meeting, Anaheim, CA, March 28-April 1.
20. Houel, S., **P. Louchouart**, D. Peteet, and M. Lucotte. (2004). "Fire and elemental black carbon analyses: A new addition to vascular plant biomarkers for reconstructions of allochthonous OM fluxes in aquatic systems". 227th ACS National Meeting, Anaheim, CA, March 28-April 1.
19. Ishikawa, T., A. Barnston, K.A. Kastens, **P. Louchouart**, and C. Ropelewski. (2003). "Testing the Efficacy of Climate Forecast Maps as a Means of Communicating with Policy Makers". 115th Annual GSA Meeting. Seattle, WA, Nov. 2-5.
18. **Louchouart, P.**, J. Brandenberger, B.E. Herbert, and A. Patterson. (2003). "Organoarsenic, the missing link? What happens when the Fe hydroxide model does not work". 226th ACS National Meeting, New York, NY, September 7-11.
17. Herbert, B.E., L.M. Lee, **P. Louchouart**, G.E. Moore, C.T. Markley, M.D. Roberts. (2003) "Bioavailability and sources of arsenic in reactive-iron limited sediments of the coastal plain of South Texas". 226th ACS National Meeting, New York, NY, September 7-11.
16. **Louchouart, P.**, J. Brandenberger, B.E. Herbert, and S. Houel. (2003). Organic and inorganic markers of short time-scale shifts in environmental conditions in a South Texas reservoir subsequent to its impoundment. 225th ACS National Meeting, New Orleans, LA, March 23-27.
15. Heikkila, T., **P. Louchouart**, and B. Williams. (2003). "Bringing better science into resource management decisions: The implications of water quality data on water quantity management in the Southwestern U.S". Twenty-Fifth Annual APPAM Research Conference, Science and Technology Policy. Washington, DC, November 6-8.

14. Dolan, B. and **P. Louchouart**. (2003). "Control of Nonindigenous Species Invasions of Coastal Waters: Application of Dissolved Lignin to the Testing of Ballast Water Exchange Efficiency". 4th NOAA Expanding Opportunity in Oceanic and Atmospheric Science. Tallahassee, FL. Mar. 30-Apr. 1
13. Lake, G.E., B.E. Herbert, and **P. Louchouart**. (2002). Quantification of Potential Arsenic Bioavailability Using Chelating Resins in Spatially Varying Geologic Environments at the Watershed Scale. America Geophysical Union Fall Meeting, San Francisco, CA, December 6-10. Eos Trans. AGU, 83(47).
12. Smith, C., P. Tissot, **P. Louchouart**, M. Beaman, R.L. Parker, M. Williams, J. Brandenberger, B.E. Herbert, and P.R. Michaud. (2002). "Have Radionuclides Released from the South Texas Uranium Mines Affected Lake Corpus Christi?" invited presentation to the 2002 National Sigma Xi Student Research Conference, Galveston, Texas, November 16, p. 31.
11. C. M. Smith, P. Tissot, M. Beaman, R.L. Parker, J. Brandenberger, M. Williams, **P. Louchouart**, B.E. Herbert, and P.R. Michaud. (2002). "Historical Environmental Impact of Uranium Mining Through the Gamma Ray Analysis of Livestock Pond Sediments", 2002 Annual GSA Meeting, Oct. 27-30, 2002, Denver, CO.
10. Clark, J., A. Berkebile, and **P. Louchouart**. (2002). Occurrence and Extent of Arsenic and Associated Metals in the Groundwaters Near Lake Corpus Christi, Texas. 105th Annual Meeting of the Texas Academy of Science, Laredo, TX. Feb 28-Mar. 2.
9. Roberts, M.D., B.E. Herbert, and **P. Louchouart**. (2001). Organoarsenicals: The missing arsenic link. GSA Abstracts, Vol. 33, No. 6, October.
8. Lake, G.E., B.E. Herbert, and **P. Louchouart**. (2001). Quantification of arsenic bioavailability in spatially varying geologic environments at the watershed scale using chelating resins. GSA Abstracts, Vol. 33, No. 6, October.
7. Brandenberger, J.M., **P. Louchouart**, B.E. Herbert, P. Tissot, P.R. Michaud, R.L. Parker, M. Williams, J. Bonner, and M. Beaman. (2001). Behavior of Trace Metal Concentrations in Water Profiles from Lake Corpus Christi Subsequent to an Overturn Event. NOAA - Expanding Opportunities in Oceanic and Atmospheric Sciences. April 1-3, 2001, Jackson, MS.
6. Parker, R., B.E. Herbert, J. Brandenberger, and **P. Louchouart**. (2001). Ground water discharge from Mid-Tertiary Rhyolitic ash-rich sediments as the source of elevated arsenic in South Texas surface waters. GSA Abstracts, Vol. 33, No. 6, October.
5. **Louchouart, P.**, R. Benner, S. Opsahl, and R. Amon. (2000). Abundance, distribution, and cycling of dissolved terrigenous organic matter (DOM) in the Arctic Ocean. ASLO Ocean Meeting, January, San Antonio, USA.
4. **Louchouart, P.**, J. Bonner, C. Page, P. Tissot, and T. McDonald. (2000). Quantitative determination of oil spills from water surfaces using a modified solid-phase extraction (SPE) sampling method. 23rd AMOP Meeting, June, Vancouver, Canada.
3. Page C., J. Bonner, **P. Louchouart**, P. Tissot, C. Fuller, and T. McDonald. (2000). Materials Balance on an Oil Washed from a Sandy Substrate using Shoreline Cleaners. 23rd AMOP Meeting, June 2000, Vancouver, Canada.
2. Klap, V., M. Hemminga, J.J. Boon, and **P. Louchouart**. (1996). Lignin in POM and DOM of a european salt marsh creek. (Is lignin such a suitable terrestrial marker in a marine environment?). Oral comm. at the 212th ACS National Meeting, August 25-30, Orlando, USA.
1. **Louchouart, P.**, M. Lucotte, R. Canuel, N. Farella, and J-P. Gagné. (1995). Organic diagenesis in anoxic fjord and suboxic estuarine sediments of the St. Lawrence System: Canada. Oral comm. at the 4th International Symposium on Model Estuaries, March 21-24, Nantes, France.

GRANTS AND CONTRACTS

Pending Research:

- NSF (STEM Education): Jump in the Water: "A Transitional Program in the Marine STEM Fields". 2014-2018. (PI).

Awarded Research:

- NASA-USDA (Carbon Cycle Science Program): "Examining the relationships between land use change, wetland alteration, and carbon sequestration in the Gulf of Mexico". (PI). 2011-2014.
- The Welch Foundation: Departmental grant to enhance undergraduate research in chemistry at Texas A&M University-Galveston. 2011-2013. (PI)
- Geological Survey of Denmark and Greenland: "Anthropogenic air pollution and environmental history of Copenhagen" (Co-PI). 2011-2012.
- Texas Commission of Environmental Quality: Pilot study for in situ remediation of legacy Dioxin and PCB concentrations in Texas aquatic systems using geosorbent amendment – Phase I". (Co-PI). 2011.
- Northern Gulf of Mexico Institute: "Responses of Benthic Communities and Sedimentary Dynamics to Hydrocarbon Exposure in Neritic and Bathyal Ecosystems. Phase I & II". (Sub-contract) 2010-2011.
- R&K Research: "Analysis of Sediment Cores from the Penobscot River Estuary". (Co-PI). 2008-2011.
- NSF: "MRI: Acquisition of a GC/MS triple quadrupole for the characterization of lignin and other terrestrial plant biomarkers in complex environmental media at TAMUG". (PI). 2009-2010.
- Texas Commission of Environmental Quality: "Fate of Dioxin in the Houston Ship Channel and Evaluation of Natural Remediation Processes". (Co-PI). 2009.
- Texas Commission of Environmental Quality (TCEQ): "Role of black carbon in the partitioning and mobility of dioxins in contaminated sediments of the Houston Ship Channel". (PI). 2009-2010.
- Dept. of Ecology-State of Washington: "Study of Atmospheric Deposition of Air Toxics to the Waters of Puget Sound, Washington". (Co-PI). 2008-2010.
- Texas A&M University-Pathways to Doctorate: Fellowship support for a Ph.D. student. 2008-2010.
- NOAA – Coastal Hypoxia Research Program: "Historical evaluations of increased hypoxia in three basins of the Puget Sound" (Co-PI) - 2005-2008.
- Alliance Program (Columbia/Sciences-Po/Polytechnique): "Science Education: The role of authentic inquiry for building practice and scientific literacy in graduate multidisciplinary professional programs" (PI) - 2005.
- NSF: Collaborative Research: "Riverscope: Large-scale engineering analysis network for environmental research on the Hudson River" (Co-PI) – 2004-2005.
- Columbia University - LDEO: "Testing the efficacy of probability maps as a means of communicating climate forecasts to policy makers" (Co-PI) - 2003.
- Earth Institute - Columbia University: Funding for Post-doctoral Associate (PI) – 2002-2005.
- JOI/USSSP: "Input vs. Preservation of Organic Matter in Peruvian Shelf Sediments during Past Glacial/Interglacial Oscillations" (Co-PI) - 2003-2005.
- NSF: "MRI: Acquisition of Instrumentation for the Chemical and Biological Characterization of Factors Affecting the Distribution and Phytoremediation of Seagrasses in Coastal Bays and Estuaries" (Co-PI) - 2001-2003.
- US Coast Guard Research and Development Center: "Identification and Testing of Ballast Exchange Water", (Invited Investigator) - 2000-2001.
- USGS/Texas Water Resource Institute: "Arsenic Concentrations in Water Resources of the Choke Canyon/Lake Corpus Christi Reservoir System: Surface and Ground Waters", (PI) - 2001-2002.
- Texas ARP: "Contamination from South Texas Uranium Mines: Environmental Fate from Molecular to Watershed Scales" (Co-PI) – 2000-2001.
- TAMUCC College of Science & Technology - Research Enhancement Grant: "Source and Fate of Heavy Metals in Sedimentary Environments of the Nueces River Watershed" (PI) – 2001.
- NSERC-Canada: "Assessment & Modeling of the Production and Emissions of Greenhouse Gases from Hydro-Electric Reservoirs", (Co-PI) - 2000-2003.
- TAMUCC College of Science & Technology - Equipment Grant (Carbon Analyzer): (PI) - 2000.
- NSERC: Equipment Grant (GC/MS), (Co-PI) – 1997