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EDUCATION

- 1985 B.S., Oceanology, Universidad Autónoma de Baja California, México
1988 M.S., Marine Environmental Sciences, SUNY at Stony Brook, NY.
1992 Ph.D., Oceanography, SUNY at Stony Brook, NY.

EXPERIENCE

- 1993-1995 Research Assistant Professor, Center for Coastal Physical Oceanography, Old Dominion University
1996-2000 Assistant Professor, Ocean, Earth and Atmospheric Sciences Department, Old Dominion University
1999 Adjunct Professor, Centro de Investigación Científica y de Educación Superior de Ensenada, México
2001-2005 Associate Professor, Ocean, Earth and Atmospheric Sciences Department, Old Dominion University
2005-2008 Associate Professor, Civil and Coastal Engineering Department, University of Florida
2008-Present Professor, Civil and Coastal Engineering Department, University of Florida
2010-Present Distinguished Professor, Universidad Católica del Norte, Chile
2020-Present Program Officer, Physical Oceanography, National Science Foundation

PEER-REVIEWED PUBLICATIONS

- 1) Alvarez, L., A. Badan-Dangon and A. Valle. 1989. On coastal currents off Tehuantepec. *Estuarine Coastal and Shelf Science*, 29:89-96.
- 2) Swanson, R.L. and A. Valle-Levinson. 1990. Meteorological conditions that kept Long Island and New Jersey beaches free of floatables during the summer of 1989. *Journal of Environmental Systems*, 20(1):53-69.
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- 13) Wheless, G.H. and A. Valle-Levinson. 1996. A modeling study of tidally driven estuarine exchange through a narrow inlet onto a sloping shelf. *J. Geophys. Res.* 25,675-25,687.
- 14) Wheless, G.H., C.M. Lascara, A. Valle-Levinson, D.P. Brutzman, W. Sherman, W.L. Hibbard, and B. Paul. 1996. The Chesapeake Bay Virtual Environment: Initial results from the prototypical system. *International Journal of Supercomputer Applications and High Performance Computing*, 10(2/3), 199-210.
- 15) Wheless, G.H., C.M. Lascara, A. Valle-Levinson, D.P. Brutzman, W. Sherman, W.L. Hibbard, and B. Paul. 1996. Virtual Chesapeake Bay: interacting with a coupled physical/biological model. *IEE Computer Graphics and Applications*, 16(4), 52-57.
- 16) Valle-Levinson, A. and J. O'Donnell. 1996. Tidal interaction with buoyancy driven flow in

a coastal plain estuary. Coastal and Estuarine Studies volume 53, Buoyancy Effects on Coastal and Estuarine Dynamics, edited by David G. Aubrey and Carl T. Friedrichs, Am. Geophys. Union, Washington, DC., pp. 265-281.

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- 217) Valle-Levinson, A., M.A. Daly, B. Juarez, L. Tenorio-Fernandez, M. Fagundes, C.B. Woodson, S.G. Monismith, 2022. Influence of kelp forests on flow around headlands. *Sci. Tot. Environm.*, 825, 153952. <http://dx.doi.org/10.1016/j.scitotenv.2022.153952>
- 218) Valle-Levinson, A. 2022. *Introduction to Estuarine Hydrodynamics*. Cambridge University Press. 205 pp. DOI: 10.1017/9781108974240
- 219) Juarez, B., A. Valle-Levinson, A. Canestrelli. 2022. Mechanisms of salt-plug formation by an along-shelf buoyant current: a numerical model approach. *J. Geophys. Res.*, 127 (4), e2021JC017971. <https://doi.org/10.1029/2021JC017971>
- 220) Athie de Velasco, G., D. Salas-Monreal, A. Valle-Levinson, 2022. Subinertial flow patterns in a tropical coral reef system of the southwestern Gulf of Mexico, *Estuarine, Coastal & Shelf Science*, 275, 107991, <https://doi.org/10.1016/j.ecss.2022.107991>.
- 221) Monismith, S.G., M. Alnajjar, M.A. Daly, A. Valle-Levinson, B. Juarez, M. Fagundes, T. Bell, C.B. Woodson, 2022. Kelp forest drag coefficients derived from tidal flow data. *Estuaries and Coasts*, <https://doi.org/10.1007/s12237-022-01098-2>.
- 222) Juarez, B., S. Stockton, K. Serafin, A. Valle-Levinson, 2022. Compound flooding in a subtropical estuary caused by Hurricane Irma 2017. *Geophysical Research Letters*, 49, e2022GL099360.
- 223) Rickerich, S., L. Ross, A. Valle-Levinson, 2022. Wave enhanced overtides in an idealized tidal inlet system. *J. Geophys. Res: Oceans*. 127, e2022JC018848.
- 224) Guerra-Chanis, G.E., J.A. Laurel-Castillo, C.A.F. Schettini, G. Kakoulaki, A.J. Souza, A. Valle-Levinson, 2022. Saltwater intrusion in estuaries with different dynamic depths. *Regional Studies in Marine Science*, 51, 102186.

TECHNICAL REPORTS

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white paper presented to the U. S. Environmental Protection Agency, Region I, Boston MA.

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- Valle-Levinson, A., J.L. Miller, and M. Paraso. 1995. Hydrographic variability in the lower Chesapeake Bay. 1992. Data Report. Reference CCPO 95-01.
- Valle-Levinson, A., J.L. Miller, and M. Paraso. 1995. Hydrographic variability in the lower Chesapeake Bay. 1993. Data Report. Reference CCPO 95-02.
- Valle-Levinson, A., J.L. Miller, and M. Paraso. 1995. Hydrographic variability in the lower Chesapeake Bay. 1994. Data Report. Reference CCPO 95-03.
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- Reyes, C. and A. Valle-Levinson. 1997. Monthly Hydrography in the Lower Chesapeake Bay, 1996. Data Report. Reference CCPO 97-04.
- Heilman, L. A., A. Valle-Levinson, and L.P. Atkinson. 1997. Current conditions at the Oceanography Systems Test and Evaluation Facility (OSTEF). Final report, October 2, 1997, 43 pp., CCPO Report No. 97-02.
- Valle-Levinson, A. Environmental studies relative to potential sand mining in the vicinity of the city of Virginia Beach, VA. Part 4: Coastal Currents. U.S Department of the Interior, Minerals Management Service. Final Report, January 1998, 106 pp.
- Valle-Levinson, A. Water circulation of the Nansemond River in the vicinity of Route 125 Bridge, Final Report, July 22, 1998, 31 pp., CCPO Report No. 98-02.
- Rouse, L.J., W.J. Wiseman, Jr., L.C. Bender, N.L. Guinasso, Jr., F.J. Kelly, D.A. Brooks, Y-T. Lo, J. She, and A. Valle-Levinson. 2004. Observational and predictive study of inner shelf currents over the Louisiana-Texas shelf. U.S. Dept. of the Interior, Minerals Management Service, Gulf of Mexico OCS Region, New Orleans, LA. OCS Study MMS 2004-036. 207 pp.

CONFERENCE PROCEEDINGS

Gabriel Gallegos D. B., Ismael Mariño-Tapia, and Arnoldo Valle Levinson (2016) Effects of

Gravity Waves on Turbulence and Processes that Contribute to Mixing at a Submarine Groundwater Discharge. *Journal of Coastal Research: Special Issue 75 - Proceedings of the 14th International Coastal Symposium*, Sydney, 6-11 March 2016: pp. 856 – 860.

PRESENTATIONS AT PROFESSIONAL MEETINGS (10 years before 2018 only; # denotes invited presentation; & denotes member of Conference Steering or Organizing Committee)

- February 15, 2018. Thickness-Weighted Averaging in tidal estuaries and the vertical distribution of the Eulerian residual transport. K. Klingbeil, J. Becherer, E. Schulz, H.E. De Swart, H.M. Schuttelaars, A. Valle-Levinson, H. Burchard. Ocean Sciences Meeting, Portland, Oregon.
- February 15, 2018. Residual circulation and salt balance fluxes at a tropical estuary. G. Guerra, A. Valle-Levinson, Ocean Sciences Meeting, Portland, Oregon.
- February 15, 2018. Tidal and Residual Circulation in a Multiple-inlet Deltaic System. B. Juarez, S. So, A. Valle-Levinson, Ocean Sciences Meeting, Portland, Oregon.
- February 14, 2018. Investigation of a meteotsunami event over Gulf of Mexico using coupled atmosphere-ocean-wave modeling system. L. Shi, M. Olabarrieta, A. Valle-Levinson, M. Gillin, Ocean Sciences Meeting, Portland, Oregon.
- February 13, 2018. Tidal modulation on the salt intrusion in a tropical estuary. C.A.F.. Schettini, G. Kakoulaki, A. Valle-Levinson, Ocean Sciences Meeting, Portland, Oregon.
- February 13, 2018. Atypical Storm Surge on the Texas Coast From the Double Punch of Hurricane Harvey. A. Valle-Levinson & M. Olabarrieta, Ocean Sciences Meeting, Portland, Oregon.
- February 12, 2018. Modeling and Monitoring the Impact of the Loop Current / Florida Current System on the Physical Connectivity Among South Florida Coral Reefs. H.S. Kang, V. Kourafalou, I. Adroulidakis, R. Smith, A. Valle-Levinson & M. Olabarrieta, Ocean Sciences Meeting, Portland, Oregon.
- November 7, 2017. Subtidal hydrodynamics in a tropical lagoon during the transition from dry to wet seasons. Leonardo Tenorio-Fernandez, Arnoldo Valle-Levinson and Jose Gomez-Valdes. Coastal and Estuarine Research Federation 24th Biennial Conference, Providence, Rhode Island.
- November 8, 2017. Observations of circulation induced by eddy viscosity-shear covariance in three estuaries. Kimberly Huguenard and Arnoldo Valle-Levinson. Coastal and Estuarine Research Federation 24th Biennial Conference, Providence, Rhode Island.
- November 8, 2017. Wind-driven flow in a coastal plain estuary. Braulio Juarez and Arnoldo Valle-Levinson. Coastal and Estuarine Research Federation 24th Biennial Conference, Providence, Rhode Island.
- November 8, 2017. Exchange processes at a multiple inlet estuary. Arnoldo Valle-Levinson, Braulio Juarez and Sangdon So. Coastal and Estuarine Research Federation 24th Biennial Conference, Providence, Rhode Island.
- November 8, 2017. Statistical assessment of saltwater intrusion in a subtropical estuary. Guerra, Gisselle; Reyes-Merlo, Miguel; Diéz-Minguito, Manuel; Valle-Levinson, Arnoldo. Coastal and Estuarine Research Federation 24th Biennial Conference, Providence, Rhode Island.
- November 14, 2016. A 65-yr migration of sea-level rise hot-spots along the US Atlantic coast. A. Valle-Levinson, A. Dutton, J. Martin. American Water Resources Association Meeting, Orlando, FL.
- October 25th, 2016. A. Valle-Levinson, S. ParraA, I. Marino-Tapia, ECOCIEC, Cayo Coco, Cuba,

- Seasonal variations in saltwater intrusions in Mexican a reef lagoon.
- &October 10, 2016. Valle-Levinson, J.A. Laurel G, B. Prairie. R. Lueck, C.A.F. Schettini, Physics of Estuaries and Coastal Seas, Scheveningen, The Netherlands, A. Flood-to-ebb asymmetry of mixing in two estuaries with contrasting stratification.
- &October 10, 2016. Gabriel GallegosG, Ismael Marino Tapia, and Arnoldo Valle Levinson, Physics of Estuaries and Coastal Seas, Scheveningen, The Netherlands. Effect of gravity waves on turbulence and mixing at a submarine groundwater discharge.
- #September 22, 2016. A.Valle-Levinson. Mexican National Oceanography Congress, Why should we study estuaries in Mexico? Keynote Address.
- February 26, 2016. Arnoldo Valle-Levinson, Andrea Dutton, Jon Martin. Anomalous Sea Level Rise in the Southeastern United States From 2011 To 2015, Ocean Sciences Meeting, New Orleans, LA
- February 26, 2016. Parra, Sabrina, Arnoldo Valle-Levinson, Peter Adams, Juan Felipe Paniagua, Linkage between Gulf Stream and inner shelf subtidal flow variations off Cape Canaveral. Ocean Sciences Meeting, New Orleans, LA.
- February 24, 2016. Maitane Olabarrieta, Arnoldo Valle-Levinson. Linkage between El Niño and meteotsunamis incidence in the northern Gulf of Mexico. Ocean Sciences Meeting, New Orleans, LA.
- February 23, 2016. Armando Laurel, Arnoldo Valle-Levinson. Competition between river discharge and tidal forcing in defining sea level in a subtropical estuary. Ocean Sciences Meeting, New Orleans, LA.
- February 23, 2016. Wei Liu, Ming Li, Robert Chant, Arnoldo Valle-Levinson. Lateral flow as related to vorticity dynamics in a coastal plain estuary. Ocean Sciences Meeting, New Orleans, LA.
- February 22, 2016. Leonardo Tenorio, Jose Gomez-Valdez, Arnoldo Valle-Levinson, Subtidal hydrodynamics in a tropical lagoon during the transition from dry to wet seasons, Ocean Sciences Meeting, New Orleans, LA.
- November 19, 2015. Arnoldo Valle-Levinson, Andrea Dutton, Jon Martin, Anomalous sea level rise in the Southeastern United States from 2011 to 2015. MarCUBA 2015, La Havana.
- November 18, 2015. Smith, Ryan, H., Arnoldo Valle-Levinson, Vassiliki H. Kourafalou, Current observations at Pulley Ridge mesophotic reef: results from a three-year time series of moored ADCP data. MarCUBA 2015, La Havana.
- November 9, 2015. Arnoldo Valle-Levinson, Jackie BranyonG, Jon Martin, Caitlin Young, Andrea PainG, Ismael Mariño, Mario Rebolledo The upside-down tropical estuary: rotating the reference frame by 90 degrees. Coastal and Estuarine Research Federation Meeting. Portland, OR
- November 9, 2015. Kimberly Huguenard A, Arnoldo Valle-Levinson, Ming Li, Robert Chant, Alejandro Souza Influence of tidal mixing asymmetries on residual exchange flow in the James River estuary. Coastal and Estuarine Research Federation Meeting. Portland, OR
- November 9, 2015. Perales, Hector; Sanay, Rosario; Marín, Mark; Valle-Levinson, Arnoldo. Wind influence on water exchange in a salt wedge estuary of the SW-Gulf of Mexico. Coastal and Estuarine Research Federation Meeting. Portland, OR
- November 9, 2015. Sanay-Gonzalez, Rosario; Perales-Valdivia, Héctor; Marín-Hernández, Mark; Valle-Levinson, Arnoldo. Seasonal variability of hydrography over the SW Gulf of Mexico inner shelf. Coastal and Estuarine Research Federation Meeting. Portland, OR

November 9, 2015. Branyon, JackieG; Valle-Levinson, Arnolndo; Parra, SabrinaA;. Marino-Tapia, Ismael. Predicting submarine groundwater discharge and turbulence dissipation using Bernoulli dynamics. Coastal and Estuarine Research Federation Meeting. Portland, OR

November 9, 2015. Nascimento, Fernanda; Valle-Levinson, Arnolndo; Sottolichio, Aldo; Senechal, Nadia. Wind-induced subtidal flow in a mixed-energy tidal inlet. Coastal and Estuarine Research Federation Meeting. Portland, OR

November 18, 2015. Smith, Ryan, H., Arnolndo Valle-Levinson, Vassiliki H. Kourafalou, Current observations at Pulley Ridge mesophotic reef: results from a three-year time series of moored ADCP data. MarCUBA 2015, La Havana.

November 19, 2015. Arnolndo Valle-Levinson, Andrea Dutton, Jon Martin, Anomalous sea level rise in the Southeastern United States from 2011 to 2015.. MarCUBA 2015, La Havana.

&October 20th, 2014. Ross, L.; Valle-Levinson, A.; Castro, L. and Pérez-Santos, I.; Monthly modulation of internal tides and plankton vertical migrations in a Patagonian Fjord, Physics of Estuaries and Coastal Seas, Porto de Galinhas, Brazil.

&October 21st, 2014. Parra, S.; Mariño-Tapia, I.; Enríquez, C. and Valle-Levinson, A. Point-Source Submarine Groundwater Discharge Variations During the Dry and Wet Periods. Physics of Estuaries and Coastal Seas, Porto de Galinhas, Brazil.

&October 22nd, 2014. Valentim, S.S.; Menezes, M.O.B. and Valle-Levinson, A. Physical characterization of the Coreaú river estuary, CE, Brazil. Physics of Estuaries and Coastal Seas, Porto de Galinhas, Brazil.

&October 23rd, 2014. Valle-Levinson, A. and C.A.F. Schettini. Fortnightly switching of residual flow drivers in a tropical semiarid estuary. Physics of Estuaries and Coastal Seas, Porto de Galinhas, Brazil.

February 28, 2014. Branyon, J. M.; Valle-Levinson, A.; Intratidal and residual circulation associated with two fringing reef lagoon inlets, Ocean Sciences Meeting, Hawaii.

February 28, 2014. Franklin, G. L.; Mariño-Tapia, I.; Torres-Freyermuth, A.; Valle-Levinson, A.; Enriquez, C.; Observations of spectral wave transformation across the surf zone of coral reefs, Ocean Sciences Meeting, Hawaii.

February 27, 2014. Mariño Tapia, I.; Enriquez, C.; Franklin, G. L.; Valle-Levinson, A.; Coral degradation, submarine groundwater discharges, and implications for reef hydrodynamics, Ocean Sciences Meeting, Hawaii.

February 26, 2014. Valle-Levinson, A.; Olabarrieta, M.; Van Horn, J.; Semidiurnal perturbations to the surge of hurricanes affecting Eastern US, Ocean Sciences Meeting, Hawaii.

#January 26, 2014. Here comes the sea. We should be prepared! Arnolndo Valle-Levinson. Invited seminar at University of Sinaloa, Mexico.

#November 8, 2013. Semidiurnal perturbations to storm surges on the eastern seaboard of the U.S. Arnolndo Valle-Levinson. Invited seminar at CICESE.

&November 4, 2013. Depicting short events of river discharge on tidal signal using wavelets. Trucolo, Eliane C.; Schettini, Carlos A.; Almeida, Luiz E.; Valle-Levinson, Arnolndo. Coastal and Estuarine Research Federation Meeting. San Diego, CA.

&November 4, 2013. Fortnightly variability of hydrography and exchange flows in a tropical semiarid estuary during dry and wet seasons. Carlos Schettini, Arnolndo Valle-Levinson, Ernesto Domingues, Kimberly Arnott, Bárbara Paiva, Jacqueline Branyon, Felipe Frota, Jennifer Ross, José Cavalcante, Sabrina M. Parra. Coastal and Estuarine Research Federation Meeting. San Diego, CA.

- &November 5, 2013. Response of a subtropical stratified estuary to river pulses. Valle-Levinson, Arnoldo; Schettini, Carlos; Truccolo, Eliane. Coastal and Estuarine Research Federation Meeting. San Diego, CA.
- &November 5, 2013. Three-dimensional dynamics of sediment trapping in tide-dominated estuaries, an exploratory model. Huib de Swart, Erik Ensing, Henk Schuttelaars, Arnoldo Valle-Levinson. Coastal and Estuarine Research Federation Meeting. San Diego, CA.
- #September 6, 2013. Semidiurnal perturbations to storm surges on the eastern seaboard of the U.S. Arnoldo Valle-Levinson. Invited seminar at University of Delaware.
- #June 25, 2013. Salt intrusion in coastal areas at the imminent sea level rise: should we worry? Keynote address after being named a Corresponding Member of the Mexican Academy of Science.
- #May 28, 2013. Physical factors to consider for emplacement of aquaculture farms in fjords. Workshop on carrying capacity in Chilean fjords. Coyhaique, Chile.
- &May 16, 2013. L. Ross, I. Perez, A. Valle-Levinson. Semidiurnal internal tides in a Patagonian fjord. Meeting of the Americas, Cancun, Mexico.
- &May 16, 2013. J.M. Branyon, M. Olabarrieta, A. Valle-Levinson. Semidiurnal perturbations to the surge of Hurricane Irene. Meeting of the Americas, Cancun, Mexico.
- &May 16, 2013. A. Valle-Levinson; C. A. F. Schettini; E. C. Truccolo. Response of a Sub-Tropical Salt-Wedge Estuary to River Pulses. Meeting of the Americas, Cancun, Mexico.
- &May 16, 2013. S. M. Parra; I. Marino-Tapia; C. Enriquez; A. Valle-Levinson. Saltwater intrusion at a buoyant jet discharge in a fringing reef lagoon. Meeting of the Americas, Cancun, Mexico.
- April 8, 2013. A. Valle-Levinson, Recent findings on estuarine hydrodynamics. European Geosciences Meeting, Vienna, Austria.
- April 8, 2013. A. Valle-Levinson, M. Olabarrieta, and A. Valle. Semidiurnal perturbations to the surge of Hurricane Sandy. European Geosciences Meeting, Vienna, Austria.
- #March 21, 2013. Contemporary concepts on the hydrodynamics of semi-enclosed systems: does it matter how wide and how deep? Invited seminar at University of Bordeaux, France.
- #March 15, 2013. Contemporary concepts on hydrodynamics of semi-enclosed systems: What's the importance of width and depth? Campus do Mar Keynote Presentation, University of A Coruña, Spain.
- #February 27, 2013. Recent advances in the study of estuarine hydrodynamics, invited seminar at the Institute of Marine Sciences, Venice, Italy.
- #February 6, 2013. Recent findings in the hydrodynamics of semienclosed basins, invited seminar at the Hydraulics Institute, University of Cantabria, Spain.
- #January 15, 2012. Adjustment to the paradigm of net circulation and diel vertical migrations in fjords, invited seminar at the Centro Andaluz del Medio Ambiente, Granada, Spain.
- #January 17, 2012. Recent advances in the study of estuarine hydrodynamics, invited seminar at the Centro Andaluz del Medio Ambiente, Granada, Spain.
- #December 14, 2012. Recent advances in the study of estuarine hydrodynamics, invited seminar at University of Girona, Spain.
- #November 23, 2012. Adjustment to the paradigm of net circulation and diel vertical migrations in fjords. Invited seminar at Institute of Marine Sciences, Barcelona, Spain.
- #November 16, 2012, Hydrodynamics in semienclosed basins, invited plenary presentation at "Encuentro de Oceanografía Física" Meeting, Madrid, Spain.

- #October 23, 2012. Recent findings in the study of hydrodynamics in semienclosed basins, invited seminar at Institute of Marine Sciences, Barcelona, Spain.
- #October 3, 2012. Recent findings in the study of hydrodynamics in semienclosed basins, invited seminar at National Ocean Center, Liverpool, England.
- #August 30, 2012. Modification to the paradigm of net circulation in fjords, invited presentation at the 11th International Workshop on Multi-scale (Un)-structured mesh numerical Modelling for coastal, shelf and global ocean dynamics. Delft, The Netherlands.
- #August 29, 2012. Recent findings in the study of hydrodynamics in semienclosed basins, invited seminar at the Helmholtz-Centrum Geesthacht, Germany.
- #August 23, 2012. Recent findings in the study of hydrodynamics in semienclosed basins, invited seminar at the Institute of Marine and Atmospheric Sciences, Utrecht University, The Netherlands.
- &August 16, 2012. M. Li, Y. Li, P. Cheng, W. Liu, R. Chant, and A. Valle-Levinson. Vorticity Dynamics of Secondary Circulations in Idealized and Realistic Estuaries. Physics of Estuaries and Coastal Seas Conference, New York, NY.
- &August 15, 2012. Ross, L., I. Perez & A. Valle-Levinson. Internal tides in a Chilean fjord. Physics of Estuaries and Coastal Seas Conference, New York, NY.
- &August 15, 2012. Parra, S., I. Mariño-Tapia, C. Enriquez, & A. Valle-Levinson. Tide and Wave-Induced Variations in Turbulent Kinetic Energy at a Buoyant Jet Discharge. Physics of Estuaries and Coastal Seas Conference, New York, NY.
- &August 14, 2012. Franklin G., I. Mariño-Tapia, A. Torres-Freyermuth, A. Valle-Levinson and C. Enriquez. Effect of reef roughness on wave set-up and surf zone currents. Physics of Estuaries and Coastal Seas Conference, New York, NY.
- &August 14, 2012. Ensing, E., L. Ross, H. de Swart, H. Schuttelaars, A. Valle-Levinson. Three-dimensional tidal flows in estuaries with converging width and a slippery bottom: a simple model. Physics of Estuaries and Coastal Seas Conference, New York, NY.
- &August 14, 2012. Valle-Levinson, A., M. Caceres & O. Pizarro. Residual Circulation in Fjords: Is It 2-Layered or 3-Layered? Physics of Estuaries and Coastal Seas Conference, New York, NY.
- &August 14, 2012. Arnott, K., A. Valle-Levinson, R. Chant, & M. Li. Temporal Variability of Dissipation from Channel to Channel Slope in a Coastal Plain Estuary. Physics of Estuaries and Coastal Seas Conference, New York, NY.
- &August 13, 2012. Schettini, C., L. Bezerra, B. Paiva, E. Truccolo, & A. Valle-Levinson. Circulation and hydrography of semi-arid Brazilian low-inflow estuaries Physics of Estuaries and Coastal Seas Conference, New York, NY.
- #July 26, 2012. Adjustment to the paradigm of net circulation and diel vertical migrations in fjords. Invited seminar at the Netherlands Institute of Sea Research, Texel.
- #June 28, 2012. Adjustment to the paradigm of net circulation and diel vertical migrations in fjords. Invited seminar at the Institute of Marine and Atmospheric Sciences, Utrecht University, The Netherlands.
- #May 2, 2012. Estuarine variability. Invited presentation at Workshop on carrying capacity of Estero Real, Nicaragua.
- Apr 21, 2012. Modelling lateral distribution of waves, currents and bedload transport in an estuarine cross-section. de Swart, H., Waterhouse, A., Valle-Levinson, A. European Geosciences Union. Vienna, Austria.

- Feb 21, 2012. Li, M.; Liu, W.; Cheng, P.; Chant, R.; Valle-Levinson, A.; Lateral circulation in James River estuary and its effect on estuarine exchange flows: a numerical modeling study. Ocean Sciences Meeting, Salt Lake City, UT.
- Feb 21, 2012. Guerra, G. E.; Valle-Levinson, A.; Curvature effects on water exchange at the entrance to a tropical estuary. Ocean Sciences Meeting, Salt Lake City, UT.
- Feb 23, 2012. Parra, S. M.; Valle-Levinson, A.; Mariño, I.; Enriquez, C.; Tide and wave-induced variations in turbulent kinetic energy at a buoyant jet discharge. Ocean Sciences Meeting, Salt Lake City, UT.
- Feb 20, 2012. Arnott, K. D.; Valle-Levinson, A.; Chant, R.; Li, M.; Comparison of intratidal variations of shear production, turbulence dissipation, and mixing across an estuary. Ocean Sciences Meeting, Salt Lake City, UT.
- Feb 21, 2012. Hunter, E. J.; Chant, R. J.; Valle-Levinson, A.; Lagrangian observations in the James River estuary - 2010: dye injections, lateral mixing and the spring-neap cycle. . Ocean Sciences Meeting, Salt Lake City, UT.
- Feb 21, 2012. Chant, R. J.; Guo, J. D.; Hunter, E.; Valle-Levinson, A.; Dynamics of lateral circulation in a coastal plain estuary. Ocean Sciences Meeting, Salt Lake City, UT.
- #Jan 30, 2012. Potential role of glacial fjords in climate change. Invited seminar at the Marine Sciences Department, University of Valparaiso.
- #Jan 5, 2012. Adjustments to two paradigms in Oceanography. Invited seminar at the University of Concepcion, Chile.
- #Dec 28, 2011. Importance of studying fjord hydrodynamics. Invited seminar at Civil and Oceanic Engineering of University of Valparaiso.
- #Dec 6, 2011. Physical mechanisms driving circulation in Patagonic fjords. Invited seminar at the Marine Sciences Department, University of Valparaiso.
- Nov 10, 2011. Lagrangian studies in narrow and wide estuaries. Chant, R., Valle-Levinson, A., Hunter, E., Guo, J. Coastal and Estuarine Research Federation Meeting, Daytona Beach, Florida.
- Nov 10, 2011. Tidal and lateral asymmetry in stratification in a coastal plain estuary. Basdurak, N., Valle-Levinson, A. Coastal and Estuarine Research Federation Meeting, Daytona Beach, Florida.
- Nov 10, 2011. Lateral structure of turbulent dissipation in an estuary from neap to spring tides. Arnott, K. D., Valle-Levinson, A., Li, M., Chant, R., Coastal and Estuarine Research Federation Meeting, Daytona Beach, Florida.
- Nov 10, 2011. Relative influence of Coriolis and advective accelerations in a coastal plain estuary. Valle-Levinson, A., Chant, R., Li, M. Coastal and Estuarine Research Federation Meeting, Daytona Beach, Florida.
- Nov 9, 2011. Lagrangian observations over a region influenced by the Mobile Bay outflow plume. Ross, J. L., Webb, B. M., Dzwonkowski, B., Park, K., Valle-Levinson, A., Coastal and Estuarine Research Federation Meeting, Daytona Beach, Florida.
- Nov 8, 2011. Subtidal variability in the water levels in the St. Johns River. Henrie, K., A. Valle-Levinson. Coastal and Estuarine Research Federation Meeting, Daytona Beach, Florida.
- Nov 8, 2011. Response of the James River estuary's longitudinal density gradient to river input. Maticka, S., Valle-Levinson, A. Coastal and Estuarine Research Federation Meeting, Daytona Beach, Florida.
- Nov 7, 2011. Tidal asymmetries in velocities and stratification over a hollow of a tropical inlet

- Waterhouse, A., Valle-Levinson, A., Morales, R. Coastal and Estuarine Research Federation Meeting, Daytona Beach, Florida.
- Nov 7, 2011. Tide and wave-induced variations in turbulent kinetic energy at a buoyant jet discharge. Parra, S. M., Mariño, I., Enriquez, C., Valle-Levinson, A., Coastal and Estuarine Research Federation Meeting, Daytona Beach, Florida.
- Nov 7, 2011. Modelling lateral distribution of flow and bedload sediment transport in a tidal inlet. de Swart, H., Waterhouse, A., Valle-Levinson, A. Coastal and Estuarine Research Federation Meeting, Daytona Beach, Florida.
- #Oct 6, 2011. Recent Perspectives on Estuarine Dynamics. Second Congress on the Physical Oceanography, Meteorology and Climate of Southeastern Pacific, Coquimbo, Chile.
- Sep 6, 2011. Tide and wave-induced variations in turbulent kinetic energy at a buoyant jet discharge. Parra, S., Mariño, I., Enriquez, C., Valle-Levinson, A. Warnemünde Turbulence Days 2011, Germany.
- Sep 6, 2011. Comparison of intratidal shear production and turbulence dissipation from channel to shoal in an estuary. Arnott, K, Valle-Levinson, A., Chant, B., Li, M. Warnemünde Turbulence Days 2011, Germany.
- Aug 24, 2011. Intratidal variations of stratification and mixing across an estuary. K. Arnott, B. Chant, A. Valle-Levinson, M. Li. VII International Symposium on Stratified Flows, Rome, Italy.
- Aug 23, 2011. Observations on the lateral structure of wind-driven flows in a stratified embayment, C. Winant, A. Valle-Levinson, K. Winters, G. Gutierrez, C. Winant, A. Ponte. VII International Symposium on Stratified Flows, Rome, Italy.
- #Jan 11, 2011. Impact of record flooding of a subtropical river on estuary/ocean exchange. Seminar at Utrecht University. Institute of Marine and Atmospheric Physics. The Netherlands.
- #Dec 6, 2010. Basic hydrodynamic concepts to be considered for coastal aquaculture. A. Valle-Levinson. Workshop on aquaculture site selection and carrying capacity estimates for inland and coastal water bodies, Stirling, Scotland.
- #Oct 11, 2010. Impact of the 2009 Suwanee record flooding on water exchange in the lower estuary. Seminar at the University of South Florida, Civil and Environmental Engineering.
- &Sep 16, 2010. Tides in a system of connected estuaries. A. Waterhouse*, A. Valle-Levinson and C.D. Winant. Physics of Estuaries and Coastal Seas, Biennial Conference. Sri Lanka.
- &Sep 16, 2010. Using mode 12 ADCP measurements to describe gravity waves in a bay. C. Winant* and A. Valle-Levinson. Physics of Estuaries and Coastal Seas, Biennial Conference. Sri Lanka
- #Aug 26, 2010. Basic hydrodynamic concepts to be considered for coastal aquaculture . A. Valle-Levinson. Workshop on carrying capacity for aquaculture in Estero Real, Nicaragua. Chinandega.
- #Aug 12, 2010. Reassessment of fundamental estuarine hydrodynamics. A. Valle-Levinson. American Geophysical Union Meeting of the Americas. Foz do Iguassu, Brazil.
- #Jul 9, 2010. Reassessment of fundamental estuarine hydrodynamics. A. Valle-Levinson. Workshop on coastal oceanography of the Yucatan Peninsula. Merida, Mexico
- Feb 26, 2010. Thermohaline and Flow Variability Associated with Intense Submarine Groundwater Discharges (SGD) in the Coastal Ocean. I. Marino-Tapia; C. E. Enriquez; A. Valle-Levinson; I. Vera. Ocean Sciences Meeting. Portland, Oregon.
- #Feb 25, 2010. Relative role of Coriolis and advective accelerations on the dynamics of a coastal

- plain estuary. A. Valle-Levinson; R. Chant; M. Li. Ocean Sciences Meeting. Portland, Oregon.
- Feb 25, 2010. High frequency wind-waves in a basin: comparison between linear theory and ADCP observations. C. D. Winant; A. Valle-Levinson. Ocean Sciences Meeting. Portland, Oregon.
- Feb 25, 2010. Lagrangian Observations in the James River Estuary: Implications for Diapycnal Mixing and Secondary Circulation. E. J. Hunter; R. Chant; A. Valle-Levinson; M. Li. Ocean Sciences Meeting. Portland, Oregon.
- Feb 25, 2010. Influence of bathymetry and buoyant outflow plume dynamics at an estuary/ocean transition. J. Lee; A. Valle-Levinson; P. Cheng; J. A. Austin; J. M. Pringle. Ocean Sciences Meeting. Portland, Oregon.
- Feb 25, 2010. Effects of a scour pit on the flow through a narrow inlet to a tropical lagoon . A. F. Waterhouse; A. Valle-Levinson; R. A. Morales Perez; H. Velez. Ocean Sciences Meeting. Portland, Oregon.
- Feb 22, 2010. The influence of lateral advection on estuarine exchange at a Chesapeake Bay tributary. N. B. Basdurak; A. Valle-Levinson. Ocean Sciences Meeting. Portland, Oregon.
- Feb 22, 2010. Wind driven dynamics inside a semi-enclosed coastal basin, Bahia Concepcion, Baja Mexico. A. L. Ponte; C. Winant; K. B. Winters; A. Valle-Levinson; G. Gutierrez de Velasco. Ocean Sciences Meeting. Portland, Oregon.
- &Nov 5, 2009. Hydrographic Patterns at the Transition between a Subterranean Estuary and the Coastal Ocean. A. Valle-Levinson; I. Mariño; C. Enriquez. Coastal and Estuarine Research Federation Meeting, Portland, Oregon.
- &August 29, 2008, P. Cheng, A. Valle-Levinson, The role of advection on estuarine hydrodynamics, Biennial Conference of the Physics of Estuaries and Coastal Seas, Liverpool, England.
- &August 29, 2008, A. Ponte, G. Gutiérrez de Velasco, A. Valle-Levinson, C. Winant, K. Winters, Wind driven circulation in a semi-enclosed and well-mixed bay, Bahía Concepción, Biennial Conference of the Physics of Estuaries and Coastal Seas, Liverpool, England.
- &August 29, 2008, Waterhouse, A., A. Valle-Levinson, Modulation of tidal residual flows in a North-Florida Inlet, Biennial Conference of the Physics of Estuaries and Coastal Seas, Liverpool, England.
- March 4, 2008, Murphy, P L; Valle-Levinson, A; Tidal and Residual Circulation in St. Andrew Bay, Fl, Ocean Sciences Meeting, in Orlando, FL.
- March 4, 2008, Waterhouse, A F; Valle-Levinson, A; Spatial Structure of Tidal and Residual Flows at a Tidal Inlet, Ocean Sciences Meeting, in Orlando, FL.
- March 4, 2008, Lee, J; Valle-Levinson, A; Austin, J; Pringle, J; Modeling Of Wind-Driven Interactions At The Estuary/Ocean Transition, Ocean Sciences Meeting, in Orlando, FL.
- March 4, 2008, Winant, C D; Valle-Levinson, A; Observations Of Wave- And Wind-Induced Reynolds Stresses In A Windy Bay, Ocean Sciences Meeting, in Orlando, FL.
- March 3, 2008, Cheng, P; Valle-Levinson, A; Hydrodynamics Over Hollows In Estuaries, Ocean Sciences Meeting, in Orlando, FL.
- March 3, 2008, Valle-Levinson, A; Guo, X; Flow Interactions With A Bathymetric Depression In The Seto Inland Sea, Ocean Sciences Meeting, in Orlando, FL.
- November 7, 2007, Valle-Levinson, A., “Observations of Residual Exchange Flows in Subtropical Estuaries” presentation at the Estuarine Federation Meeting in Providence Rhode Island.
- November 7, 2007, Ponte, A.; Gutiérrez de Velasco, G.; Valle-Levinson, A.; Winant, C.; Winters, K., “Circulation in a Semi-enclosed Bay Driven by Sea Level Variations and Wind.”

presentation at the Estuarine Federation Meeting in Providence Rhode Island.
#May 23, 2007, Valle-Levinson, A., “Estuary/ocean exchange as influenced by friction and width of cross-section” at the American Geophysical Union Joint Assembly, Acapulco, Mexico.
April 18, 2007, Valle-Levinson, A., “Estuary/ocean exchange in terms of the Ekman and Kelvin numbers” at the European Geophysical Union meeting, Vienna, Austria.

GRANTS AWARDED

Atkinson, L.P., A. Valle-Levinson, and J.L. Miller. Effects of Chesapeake Bay Bridge-Tunnel pilings on water column stratification in the lower Chesapeake Bay. Funded by Sverdrup Co. March-July, 1994. \$24,875

Wheless, G. and A. Valle-Levinson. Ballast Exchange Project. Funded by Mystic Aquarium, November-June 1995. \$50,000

Valle-Levinson, A., and L.P. Atkinson. Effects of Sand Mining and Feeder Mounds on Virginia Beach coastal waters. Minerals Management Service, Oct 1995-Sep 1997. \$100,000

Atkinson, L.P. and A. Valle-Levinson. Mi-Chile (Mar Interior de Chile) A study of the Chilean inland sea ecosystems. Funded by NSF. April 1996- March 1998. \$58,000.

Valle-Levinson, A., K.C. Wong, and K.M.M. Lwiza. On the transverse circulation in a coastal plain estuary. NSF, May 1996-April 1999. \$450,000 (\$168,958 to Valle-Levinson)

Atkinson, L.P., E.E. Hofmann, A. Valle-Levinson, C.L. Seyfrit, V. Marin, F. Jara, Austral Chilean Coast and Inland Sea. IAI-NSF June 1996 - May 1997. \$50,000

Valle-Levinson, A. Physical Exchange Processes at the Chesapeake Bay Mouth, Virginia Sea Grant, February 1997-January 2000. \$114,769

Valle-Levinson, A. An Observational and Predictive Study of Inner Shelf Currents Over the Texas-Louisiana Shelf, Minerals Management Service, March 1997-February 1999. \$27,990

Valle-Levinson, A. and L.P. Atkinson, U.S.-Cameroon Planning Visit: The Influence of River Discharge on the Coastal Cameroon Ecosystem, NSF, Aug 1996-Jul 1997. \$6,654

Atkinson, L.P. and A. Valle-Levinson. Provide services for developing an instrument evaluation site. NOAA. Sep-96 - Sep 97., \$50,000

Valle-Levinson, A., Flow Measurements Around Bridge and Approaches, Route 125 over Nansemond River City of Suffolk, Funded by Sverdrup Co., April-May, 1998. \$15,000

Valle-Levinson, A., and L.P. Atkinson. Provide current measurements for NOAA in the vicinity of OSTEF. July 1998- July 1999. \$35,000

Wong, K.C., A. Valle-Levinson, K. Bosley, On the Wind-Induced Exchange Between an Estuary and the Adjacent Continental Shelf, Funded by NSF. Sep. 1999-2002. \$480,000 (\$226,102 to Valle-Levinson)

Valle-Levinson, A. Flow structure in the vicinity of the 28th Street Outfall, Funded by the Hampton Roads Sanitation Department, Sep 1998-January 1999. \$15,000

Jones, C., S. Thorrold, A. Valle-Levinson, and J. Hare, Recruitment of marine fish larvae to estuarine nursing systems: insights from high resolution analysis of otolith chemistry and hydrodynamics, Funded by NSF. May 1999-Apr 2003. \$679,782

Valle-Levinson, A., L. Codispoti, and L. Atkinson, Nutrient Fluxes Through the Chesapeake Bay Mouth, Funded by Virginia Sea Grant, Jan 1999-Feb 2002. \$238,535

Valle-Levinson, A., A. Münchow, M. Framiñan, Comparative Studies in the Rio de la Plata Estuary, Funded by NSF, Mar 1999-Mar 2000. \$35,000

Valle-Levinson, A., CAREER: On the Hydrodynamics of the Exchange Between Estuaries and Their Adjacent Waters, Funded by NSF, Aug 2000-July 2005, \$495,000.

Valle-Levinson, A., L.P. Atkinson, E. Hofmann, supplement to “On the Wind-Induced Exchange Between an Estuary and the Adjacent Continental Shelf” to carry out measurements in the Gulf of Arauco, Chile, Funded by NSF, September 1, 2000 to August 31, 2001, \$20,160

Valle-Levinson, A., “Fisheries Habitat: Spatial Dynamics and the Protection of Critical Habitats to Conserve Spawning Stock and Recruitment in Exploited Marine Species With Complex Life Cycles”, Subcontract by VIMS from a project funded by VA Sea Grant, Nov 2000-Sep 2001, \$6,006.

Valle-Levinson, A., “Circulation Study in the Gulf of Fonseca ,” Funded by NOAA, March 10, 2001 to December 31, 2001, \$185,000.

Royer, T.C., G.F. Cota, G.A. Cutter, and A. Valle-Levinson, “Acquisition of shipboard oceanographic instrumentation for R/V Fay Slover,” Funded by NSF, August 16, 2002 to August 15, 2005, \$184,133.

Valle-Levinson, A., “CODAR Pattern Analysis in the Lower Chesapeake Bay ,” Funded by NOAA, August 8, 2002 to January 31, 2003, \$27,268.

Jones, C. and A. Valle-Levinson. REU Site: MUST - Minority Undergraduate Scholarship and Training, May 1, 2003-May 1, 2005. Funded by NSF, \$285,195.

Valle-Levinson, A. Asymmetric circulation in wind-driven bays, funded by NSF, Oct 2004-Sep 2007, \$185,117.

Valle-Levinson, A., OASIS, NOAA, Mar-Dec, 2005, \$100,000

Valle-Levinson, A., How do changes in physical conditions and megalopae behavior affect blue crab recruitment variability in Chesapeake Bay and Delaware Bay?, funded by Sea Grant, Feb 2005, Feb 2007, \$106,221.

Valle-Levinson, A., The interaction of estuarine circulation and wind-driven shelf circulation, Funded by NSF. June 2005 to June 2008.

Valle-Levinson, A. PASI on Contemporary issues on estuarine physics, transport and water quality. Funded by NSF. Oct 2006 to July 2008, \$93,000.

Valle-Levinson, A. “Collaborative Research: Asymmetric circulation in wind-driven bays, renewal” Funded by NSF, Oct 2007-Sep 2009, \$240,038. (Co-PI with Clinton Winant at Scripps; PI at University of Florida 100% = \$240,038)

Mehta, A., A. Valle-Levinson, J.Jaeger, Lake Apopka Sediment Resuspension Model Development, Funded by the St. Johns River Water Management District, May 1, 2007-Apr 30, 2009, \$301,695 (Co-PI 40% = \$120,678).

Hsu, T.J., A. Sheremet, A. Valle-Levinson, A. Mehta., “Effects of fluid mud on bottom boundary layer dynamics and sediment fluxes at mudflats,” Funded by the Office of Naval Research, March 15, 2007-March 15, 2008, \$50,000. (Co-PI 50% = \$25,000).

Valle-Levinson, A. “Collaborative Research: The Impact of Secondary Circulation and Mixing on Estuarine Exchange Flows” Funded by NSF, Sep 2008-Sep 2011, \$1,050,579. (Co-PI with Bob Chant at Rutgers and Ming LI at University of Maryland; PI at University of Florida 100% = \$365,246)

Valle-Levinson, A. “The Impact of the 2009 Suwannee River Surge on the Gulf” Funded by NSF, May 2009-May 2010, \$77,379. PI at University of Florida 100%.

Valle-Levinson, A. “Flow Structures on the Northern Shelf of the Gulf of Mexico” Funded by Alabama Consortium for Marine Research, Dec 2010-Dec 2012, \$67,991. PI at University of Florida 100%.

Valle-Levinson, A. “Understanding Coral Ecosystem Connectivity in the Gulf of Mexico-Pulley Ridge to the Florida Keys” Funded by NOAA, Oct 2011-Sep 2016, \$5,000,000. (PI at University of Florida 100% = \$103,566)

Valle-Levinson, A. “Surface drifter production for the Consortium for Advanced Research on Transport of Hydrocarbon in the Environment (CARTHE) project” Subcontract to University of Miami. Jan 1, 2012-Dec 31, 2013. \$69,000 (100% at the University of Florida).

Valle-Levinson, A. “Reversing circulation structure in arid, tropical estuaries” Funded by NSF,

May 2012-April 2013, \$48,345. PI at University of Florida 100%.

Valle-Levinson, A. & M. Olabarrieta. "Semidiurnal Perturbations to Storm Surges on the U.S. Eastern Seaboard" Funded by NSF, Aug 2013-Aug 2016. \$399,426. PI at University of Florida 100%.

Martin, J., A. Ogram, Z. Peng, A. Valle-Levinson. "Coastal SEES (Track 1): Planning for hydrologic and ecological impacts of sea level rise on sustainability of coastal water resources" Funded by NSF, Aug 2013-Aug 2015. \$476,904. Co-PI at University of Florida (\$121,096 corresponding to A. Valle-Levinson)

Murie, D. et al. Ecological Function and Recovery of Biological Communities within Dredged Ridge-Swale Habitats in the South-Atlantic Bight. Funded by Bureau of Ocean Energy Management, Aug 2013-Feb 2015, \$1,988,708. CO-PI Valle-Levinson receives \$211,000.

Valle-Levinson, A. PI. Salt Intrusion Into Estuaries Related to Global Climate Change, Funded by Global Innovation Initiative. May 2014-May 2016. \$249,907.

Valle-Levinson, A. PI for UF. Consortium for Advanced Research on Transport of Hydrocarbon in the Environment (CARTHE) II, funded by GOMRI. Jan 2015-Dec 2017. \$14,000,000 (PI at University of Florida 100% = \$540,000).

Valle-Levinson, A. "Evaluating how abalone populations in the California Current area structured by the interplay of large-scale oceanographic forcing and nearshore variability" funded by NSF. \$167,861. PI at University of Florida 100%.

Tejada, A. et al. Turbulent vertical mixing and the formation of oil particle aggregates: LES, measurements and modeling. Funded by GOMRI, Jan 1, 2018-Dec 31, 2019, \$999,185. CO-PI Valle-Levinson receives \$299,711.

CONSULTING ACTIVITIES

Prepared a report on the "Transport of a floatable on Knitting Mill Creek, Lafayette River, on September 23, 1993" for Winthrop, Stimson, Putnam and Roberts, a Law Firm in Washington D.C. in August 1997.

Collected data at Site 104 in the upper Chesapeake Bay for SAIC in April, 2000.

Prepared report on data we collected in the vicinity of the Virginia Beach diffuser pipe in February and March 2002 for Collins Engineers/Hampton Roads Sanitation District.

Prepared report and collected data on currents in the vicinity of the City of Alexandria (VA) marina in August 2003.

Prepared report and collected data on currents in the Mattaponi River (VA) for Malcolm Pirnie

Engineers/Newport News in May and June 2006.

HONORS, AWARDS, AND PRIZES

Recipient of the University of Baja California President's Award to the highest grade point average of the Class	1985
Valedictorian of the School of Marine Sciences, Baja California	1985
Recipient of the Kenneth P. Staudte Award in recognition of innovative and important research contributing to the resolution of an environmental problem, Marine Sciences Research Center	1991
Recipient of the Sea Grant Association Student Abstract Award Competition, Environmental Studies	1992
1998 Editors' Citation for Excellence in Refereeing for Journal of Geophysical Research-Oceans	1999
Recipient of CAREER grant (U.S. National Science Foundation's most prestigious award for new faculty)	2000
Seminar Presenter as part of the Florida Sea Grant Elise B Newell Seminar Series, Florida Gulf Coast University	2008
Recipient of Fulbright Fellowship (Senior Specialists Program) to Chile	2008
Recipient of Gledden Fellowship from University of Western Australia	2009
Distinguished Professor, Universidad Catolica del Norte, Chile	2010
Distinguished Professor Visit, Mexican Academy of Sciences	2010
Level III (highest possible) Scientist in the Mexican System of Research	2010
Visiting Professor, CINVESTAV, Merida	2010
Visiting Professor, CINVESTAV, Merida	2011
Visiting Fellowship awarded by the Chilean Science and Technology Council	2011
Visiting Professorship awarded by Utrecht University	2012

Fulbright Senior Fellowship	2012
Corresponding Member of the Mexican Academy of Sciences	2012
Departmental Outstanding Faculty Mentor Award, U. of Florida	2012
Distinguished Visiting Professor, University of Bordeaux	2014
Visiting Professorship, Kyushu University, Japan	2014
Senior International Educator of the Year, U. of Florida	2014
Departmental Research Mentor Award, U. of Florida	2015
Visiting Professor, University of Pernambuco, Brazil	2015
Water Institute Fellow, University of Florida	2016
Term Professor, University of Florida	2017
Departmental Research Mentor Award, U. of Florida	2018
Visiting Professor, University of Padova	2019

MEMBERSHIP IN PROFESSIONAL SOCIETIES

Member of American Geophysical Union, Estuarine Research Federation

UNIVERSITY SERVICE

Served in the Honorary Degrees Committee of Old Dominion University in 1993

Served in the Student Conduct Committee of Old Dominion University since 1994, as Vice-Chairman since Fall of 1995.

Co-chair of the International Programs Committee of the College of Sciences (Fall 2001)

Representative of the College of Sciences to the Council of International Initiatives (Fall 2001, Spring 2002)

Served as Faculty Senator Fall 2000 to Spring 2002.

Served in following departmental committees: ship/boat, core course, strategic planning (1997, 1998, 1999); ship/boat (since 1997), admissions (since 1997), undergraduate curriculum (2000, 2001), small boats (chair 2001).

Served in the search committees for a) chair, Department of Ocean, Earth and Atmospheric Sciences, ODU (1999, 2001), b) chair in Physical Oceanography (2000), c) Assistant Professor in the OEAS Department (2000-2001).

Chair of Search Committee for CCPO's Research Assistant Professor (2004)

Chair of Curriculum for Earth as a System undergraduate course (2004)

Graduate Coordinator of Coastal and Oceanographic Engineering Graduate Program (Aug 2007-Jun 2012)

Director of Coastal Engineering Laboratory (since August 2007)

Member of Archives Committee of the Department of Civil and Coastal Engineering's Coastal Group (August 2006)

Member of College of Engineering Tenure/Promotion Board (Sep 2008-May 2012)

Member of Departmental Committee on Graduate Fellowship Awards (since Aug 2007)

Ph.D. and M.S. Committees

Ph.D. Chair

1. Adviser for K. Holderied (now at NOAA)
2. Adviser for Cristobal Reyes (Ph. D. 2001, now at Universidad del Mar, Mexico)
3. Adviser for Mario Caceres (Ph. D. 2001, now at Universidad de Valparaiso, Chile)
4. Adviser for Rosario Sanay (Ph.D. 2003, now at Universidad Veracruzana, Mexico)
5. Adviser for Andres Sepulveda (Ph.D. 2004, now at Universidad de Concepcion, Chile)
6. Adviser for David Salas-Monreal (M.S. 2002; Ph.D. 2006 now at Universidad Veracruzana, Mexico)
7. Adviser for Jung Woo Lee (Ph.D., 2010, now at Texas Water Development Board)
8. Adviser for Amy Waterhouse (Ph.D., 2010, now at Scripps Institution of Oceanography)
9. Adviser for Berkay Basdurak (Ph.D., 2010, now in Turkey)
10. Adviser for Chloe Winant (Ph.D. 2011, now at Howard Bishop Middle School)
11. Adviser for Kim Huguenard (Arnott) (Ph.D. 2013, now at University of Maine)
12. Adviser for Sangdon So (Ph.D. 2013, now at Applied Technology and Management, Inc.)
13. Adviser for Lauren Ross (Ph.D. 2014, now at University of Maine)
14. Adviser for Sabrina Parra (Ph.D. 2014, now at Johns Hopkins University)

15. Adviser for Jackie Branyon (Ph.D. 2015, now at Moffat & Nichol)
16. Adviser for Armando Laurel (Ph.D. 2016, now at Mexican Water Directorate)
17. Adviser for Fernanda Nascimento (Ph.D. 2017, now at Warnemunde University)
18. Adviser for Ahmad Yousif (Ph.D. 2017, now at Kuwait University)
19. Adviser for Mohammad Alkhaldi (Ph.D. 2018, now at Kuwait Institute for Scientific Research)
20. Adviser for Gisselle Guerra (Ph.D. 2019, now at Instituto Tecnológico de Panama)
21. Adviser for Braulio Juarez (Ph.D. 2019, now at Instituto de Investigaciones Oceanológicas, Mexico)

M.S. Chair

1. Adviser for Mayra Riveron-Enzastiga (M.S. 2006)
2. Adviser for Andrea Piñones (M.S. 2006)
3. Adviser for Diego Narvaez (M.S. 2006)
4. Adviser for Hande Caliskan (M.S. 2006)
5. Adviser for Ruth Lane (M.S. 2007)
6. Adviser for Kimberly Arnott (M.S., 2009)
7. Adviser for Nick Zwemer (M.S., 2011)
8. Adviser for Krista Henrie (M.S., 2012)
9. Adviser for Gisselle Guerra (M.S., 2012)
10. Adviser for Kirsten Nielsen (M.S. 2013)
11. Adviser for Patrick Miskel (M.S. 2014)
12. Adviser for Zak Bedell (M.S. 2017)
13. Adviser for Matlack Gillin (M.S. 2018)

Current Ph.D. students: Fernanda Gastelu

Adviser for the Departmental Outstanding Graduate Students of the Year: Krista Henrie, Kimberly Arnott, Lauren Ross, Sabrina Parra, Armando Laurel, Gisselle Guerra

Membership on Committees

Member of Ph.D. dissertation committees for Ajoy Kumar (1996, ODU); Brian Parsons (1999, ODU); Keun-Hyung Choi (1999, ODU); Kyung Hoon (2004, ODU); Juan Dworak (2005, CIBNOR, Mexico); Yong Kim (2006, U. South Carolina); Emma Gale (2006, U. Western Australia); Bin Zhang (2007, ODU); Sergio Jaramillo (2008, U. Florida); Younjoo Lee (2009, Stony Brook); Ayyoub Mehdizadeh (2010, U. Florida); Gilberto Exposito (UNAM); Ivan Perez (2011, U. Concepcion); Luis Bravo (2012, U. Concepcion); Manuel Castillo (2012, U. Concepcion); Ilgar Safak (U. Florida, 2010); Allison Penko (U. Florida, 2010); Karin Huijts (Utrecht University, Netherlands. 2010); Su Shih Feng (U. Florida, 2010); J. Marin (U. Florida, 2010); Paul Van Gastel (U. Western Australia, 2010); Bilge Tutak (U. Florida, 2010); Irany Vera (CINVESTAV, Mexico, 2012); Gillian Rosen (U. Florida); Leonardo Tenorio (CICESE, Mexico, 2015); Gemma Franklin (CINVESTAV, Mexico, 2015), Soheila Taebi (U. Western Australia, 2012), Andy Lapetina (U. Florida, 2013), Alice Alonso (U. Florida, 2016), Samuel Valentim (U Ceara, Brazil); Lexa Skrivanek (U. Florida, 2019), Niels Alebgretse (Utrecht U., 2016), Miguel A. Reyes (U. Granada,

2016), Marian Serrano (U. Granada, 2016), Gabriel Gallegos (CINVESTAV, 2019), Juan Paniagua (U. Florida, 2018), Arlett Rosado (CINVESTAV), Alice Alonso (U. Florida, 2017), Zhendong Cao (U. Florida, 2019), Christian Rojas (U. Florida), Jorge Salinas (U. Florida, 2019), Masoud Asgharianrostami (U. Florida, 2019), Matthew Conlin (U. Florida, 2022), Han Byul Woo (U Florida, 2021)
Member of M.S. thesis committee for K. Jenkins (ODU, 2001), E. Nahas (U. Western Australia, 2004); S. Sharma (2007, U. Florida); J. Marin (2009, U. Florida); A. Sampath (2009, U. Florida); S. So (2009, U. Florida).

PROFESSIONAL SERVICE

Panelist (twice) for NSF K-12 Graduate Fellowships Award.

Panelist (at least ten times) for NSF Research Awards

Panelist for NOAA's Research Awards

Member of Advisory Committee for The Nature Conservancy, Long Island Chapter (1999)

Member of External Advisory Board for CICESE (Mexico) since 2015

Program Director, NSF, since 2020

Member of the steering committee for the Physics of Estuaries and Coastal Seas Biennial Conferences.

Co-host of the Tenth Biennial International Conference of Physics of Estuaries and Coastal Seas in Norfolk Virginia in October of 2000.

Co-chair of scientific program for the 2005 Estuarine Research Federation Conference

Member of the International Scientific Committee of the Patagonian Ecosystem Research Center (since 2006).

Member, Scientific Committee, SECOORA (Southeast US Observing Network)

Member, Education Committee, FLCOOS (Florida Observing Network)

Member of Editorial Board of *Continental Shelf Research* from January 2007 to May 2008

Member of Editorial Board of *International Journal of Ocean System Engineering* March 2011 to August 2015

Invited Associate Editor of *Ocean Dynamics* since 2014

Member of Editorial Board of the Spanish *Magazine Océano*, since 2012

Associate Editor, *Ciencias Marinas* since May 2007

Associate Editor, *Continental Shelf Research* from June 2008 to August 2020
Associate Editor, *Estuaries and Coasts* since May 2012
Associate Editor, *Journal of Oceanography* since March 2016
Editor in Chief, *Continental Shelf Research* since August 2020

Reviewed proposals for the National Science Foundation, NOAA, Delaware Sea Grant, New Jersey Sea Grant, New York Sea Grant, California Sea Grant, Georgia Sea Grant, Maryland Sea Grant, South Carolina Sea Grant, Connecticut Sea Grant, Louisiana Sea Grant, the Connecticut Chapter of The Nature Conservancy, Cooperative Institute for Coastal and Estuarine Environmental Technology (CICEET), Natural Environment Research Council (United Kingdom), COLCIENCIAS (Colombian Science Foundation), Netherlands Organisation for Scientific Research, FONDECYT (Chile), CONICYT (Chile), and for the European Facility for Airborne Research, Flanders Research Foundation.

Reviewed papers for the Journal of Geophysical Research, Journal of Physical Oceanography, Continental Shelf Research, Estuaries and Coasts, Journal of Marine Research, Estuarine, Coastal and Shelf Science, Limnology and Oceanography, Progress in Oceanography, Coral Reefs, Journal of Coastal Research, Bulletin of Marine Science, Oceanography Magazine, Polar Research, Journal of Sea Research, La mer, Journal of Hydrology, Harmful Algae, Environment International, Journal of Marine Systems, Environmental Engineering, Journal of Hydraulic Engineering, Journal of Waterway, Port, Coastal and Ocean Engineering, Marine Technology and Society, Geofisica Internacional, Ciencias Marinas, Brazilian Journal of Oceanography.

Plenary Talks

7th International Meeting of Students in Physical Oceanography (2014)
19th National Congress of Oceanography in Mexico (2016)
World's Oceans Day in Colombia (2017)
Mexican Geophysical Union (2018)

COMMUNITY SERVICE

Served as judge for the Virginia Junior Academy of Science (1993, 1994); for the Tidewater Science Fair (Virginia, 1995 and 1996); and for Westwood and Lincoln Middle School Science Fairs (Gainesville, 2008).

Gave lectures in general Physical Oceanography to high school teachers and students (1996, 1997, 1998, 1999).

Gave lectures salt intrusion into aquifers at the imminent threat of sea level rise to high school teachers (summer 2013).

Presented aspects of oceanographic research at the Suffolk County Science Celebration (1996).

Invited seminars at several universities in the U.S., The Netherlands, Australia, France, Italy, Spain, Germany, England, Mexico, Japan, Chile, Peru, Nicaragua, Colombia, and China, at the Society of Women Engineers, Hampton Roads, at the American Society of Civil Engineers, Peninsula Chapter.

Science Judge, National Ocean Science Bowl, Consortium for Oceanographic Research and Education (1998, 1999, 2001, 2004)

Gave lectures on ocean temperature, salinity, density, and currents to 5th graders of Larchmont Elementary School in Norfolk during one week of May of 2000, and one week of March 2001.

Gave lecture on tsunamis, tidal waves and storm surges to 4th graders of Stephen Foster Elementary School in Gainesville in September 2005.

Gave lectures on Oceanography to Littlewood Elementary School in Gainesville to 1st and 4th graders in September 2006 and April 2009.

Gave lectures on Oceanography to 1st graders of Talbot Elementary in Gainesville in November 2006.

Gave lectures on Oceanography to 2nd, 4th and 5th graders of Newberry Elementary in Newberry (FL) in January 2007 and 2009.

Gave lectures on Oceanography to 5th graders of Chiles Elementary School in Gainesville in April 2007.

Gave lectures on Oceanography to high school students at Lofton High in Gainesville in September 2008 and February 2011.

Gave lectures on Oceanography to 5th graders at Norton Elementary School in Gainesville in November 2008.

Gave lectures on Oceanography to 5th graders at Talbot Elementary School in Gainesville in March 2011.

Gave lectures on Oceanography to 10th graders at Eastside High School in Gainesville in March 2011.

Gave lectures on Oceanography to 6th graders at Kanapaha Middle School in Gainesville in March 2015.

Gave lectures on Oceanography to 6th graders at Fort Clark Middle School in Gainesville in April 2015.

Instructed a High School Team for a competition on Oceanography, the National Ocean Sciences Bowl. The team placed 3rd in the regional competition in 2010; it won the regional competition in 2011, 2012, 2014, 2015, 2017 and 2018; it took 3rd place at the national competition in 2012, 5th place in 2014, 6th place in 2017.

Taught a course on the use of ADCP to six Latin-American participants (July 26th- August 7th, 2001) at the Center for Coastal Physical Oceanography.

Taught a course on the processing of ADCP data to 17 Latin-American participants as part of the Austral Summer Institute in Selected Topics in Physical Oceanography (January 5-11, 2002) at the University of Concepcion, Chile.

Taught a course on Estuarine Hydrodynamics to 5 Mexican participants (June 30-July 8, 2004) at the University of Baja California, Mexico

Taught a course on the processing of ADCP data to 19 Latinamerican participants (July 27-August 2, 2004) at the Instituto del Mar, Peru.

Taught a course on the Hydrodynamics of semienclosed systems to 19 Latinamerican participants (January 9-20, 2006) as part of the Austral Summer Institute at the University of Concepcion, Chile

Organized and taught at the PanAmerican Advanced Studies Institute on Estuarine Hydrodynamics held in Puerto Morelos, Mexico, in August 2007.

Gave lectures on Fjords and Bays Hydrodynamics (May 9 and 10, 2007) at the University of Antofagasta, Chile.

Taught a course on Fjord Hydrodynamics to 22 Latinamerican participants (January 5-18, 2009) as part of the Austral Summer Institute at the University of Concepcion, Chile.

Taught a course on Estuarine Hydrodynamics to 12 Latinamerican participants (March 9-19, 2009) at the Federal University of Rio Grande, Brazil.

Taught a course on Estuarine Hydrodynamics to 20 South Korean participants (September 15-21, 2009) at Inha University, Incheon, South Korea.

Taught a course on Fjord and Estuarine Hydrodynamics to 21 Latinamerican participants (January 18-19, 2010) as part of the Austral Summer Institute at the University of Concepcion, Chile.

Taught a course on Coastal Hydrodynamics to 15 Chilean participants (June 1-9, 2010) at the Northern Catholic University, Coquimbo, Chile.

Taught a course on Estuarine Hydrodynamics to 20 Brazilian participants (August 16-21,

2010) at the Federal University of Ceará, Brazil.

Taught a course on Estuarine Hydrodynamics to 18 participants (Jul 1-5, 2011) at the National University of Mexico, Merida Campus.

Taught a course on Estuarine Hydrodynamics to 12 Brazilian participants (September 9-16, 2011) at the Federal University of Pernambuco, Brazil.

Taught a course on Fjord Hydrodynamics to 15 Chilean participants (January 9-19, 2012) at the University of Valparaiso, Chile.

Taught a course on Estuarine Hydrodynamics to 10 Brazilian participants (May14-18, 2012) at the Federal University of Pernambuco, Brazil.

Taught a course on towed current profiler data analysis to students from Germany and The Netherlands (Feb 11-14, 2013)

Taught a course on Estuarine Hydrodynamics to 27 Panamerican participants (May3-12, 2013) in Areia Branca, Rio Grande do Norte, Brazil.

Taught a course on Estuarine Hydrodynamics to 10 Mexican participants (Jan 20-24, 2014) at the National University of Mexico (UNAM).

Taught a course on Estuarine Hydrodynamics to 25 Brazilian participants (May5-15, 2014) in Tamandaré, Pernambuco, Brazil.

Taught a course on Estuarine Hydrodynamics to 40 International participants (May18-30, 2014) at CICESE in Ensenada, Mexico.

Mar 1-Mar 3, 2016. Lectures on Estuarine Physics to 10 Mexican students at the National University of Mexico (taught entire course).

April 26-May 5, 2016. Lectures on Estuarine Physics to 15 Brazilian students at the University of Sao Paulo (taught entire course).

June 4-11, 2016. Lectures on Estuarine Physics to 20 European Students at the University of Granada (taught several lectures)

July 25-August 6, 2016. Lectures on Estuarine Physics to 27 Students from the US, England and LatinAmerica at the National University of Mexico (organized course and taught several lectures)

August 22-Sep 1, 2016. Lectures on Estuarine Physics to 15 European and US Students at the University of Bordeaux (taught entire course)

November 1-November 11, 2016. Lectures on Coastal Hydrodynamics to 8 Peruvian Students at the Universidad Mayor de San Marcos (taught entire course)

June 5-15, 2018. Lectures on Estuarine Physics to 20 undergraduate students at the University of Antioquia in Turbo, Colombia (taught entire course)

June 18-22, 2018. Lectures on Estuarine Physics to 15 undergraduate and graduate students at the University of the North (UNINORTE) in Barranquilla, Colombia (taught entire course)

July 2-13, 2018. Lectures on Estuarine Physics to 20 European and US Students at the University of Bordeaux (taught entire course)

August 28-September 6, 2018. Lectures on Estuarine Physics to 28 Latin American Students at the CICIMAR, Mexico (taught entire course)

June 10-14, 2019. Lectures on Estuarine Physics to 15 Costa Rican students (taught entire course)

June 17-19, 2019. Lectures on Estuarine Physics to 20 European Students at the University of Granada (taught several lectures)

August 19-23, 2019. Lectures on Estuarine Physics to 10 Mexican Students at UNAM, Mexico (taught entire course)

February 15-19, 2020. Lectures on ADCP Data Processing to 15 Mexican Students at ENES, Merida, Mexico (taught entire course)

Panelist at the television program “This Week in Hampton Roads” of the local public television station (WHRO) on the subject of hurricanes (July 2000, July 2001).

Participant on the television program “Burden of Proof” of the Cable News Network (CNN) on the subject of floatable transport (September 11, 2000)

Participant on the television program CNN Español ‘Café de la Mañana’ on the Surfside Condominium Collapse (July 2021)