

Dr. Philippe E. Tissot

Texas A&M University-Corpus Christi
Science & Engineering, Physical & Environmental Sciences
Office: Natural Resources Center 2801, Office Phone: (361) 825-3776, Email:
philippe.tissot@tamucc.edu

Education

PhD, Texas A&M University, 1994.

MS, Swiss Federal Institute of Technology, 1987.

Licensures and Certifications

Radiation Safety Officer, Texas A&M University Office of Radiological Safety. (1996 - Present).

Professional Employment

Associate Director, Conrad Blucher Institute. (2011 - Present).

Associate Professor of Physics, Texas A&M University-Corpus Christi. (September 2007 - Present).

Assistant Director, Conrad Blucher Institute. (June 2009 - 2011).

Assistant Professor of Physics & Physical Science, Texas A&M University-Corpus Christi. (August 2001 - August 2007).

Visiting Faculty Intern, Advanced Micro Devices. (June 2001 - August 2001).

Visiting faculty intern at Advanced Micro Devices Process Characterization and Analysis Laboratory (pcal), Austin, Texas. Developed and tested measurement protocols for the quantitative assessment of copper diffusion barriers effectiveness.

Assistant Research Scientist, Conrad Blucher Institute. (February 1999 - June 2001).

Adjunct Professor, Texas A&M University-Corpus Christi. (January 1999 - May 2001).

Research Scientist, Houston Advanced Research Center. (March 1995 - January 1999).
Research Scientist at the Technology Development Laboratory (TDL) of the Houston Advanced Research Center (HARC). Secured and performed research contracts for commercial companies, universities, and governmental agencies.

Instructor, Texas Engineering EXtension services (TEEX). (March 1996 - February 1998).
Instructor teaching a 4 day course (industry engineers and scientists with engineering bachelor, masters or Ph.D. degrees) and a 1 day course (industry operators and technicians with associate degrees and personnel with non scientific bachelor degrees) covering the underlying principles and the individual process steps involved in the manufacturing and characterization of silicon materials (silicon wafers). Taught more than 200 hours of lectures over a 2 year period.

Instructional Materials Specialist, Texas Engineering EXtension services (TEEX). (August 1994 - May 1995).

Graduate Research Assistant, Texas A&M University. (January 1988 - May 1994).

Research assistant responsible for operating, maintaining and modifying an ion beam accelerator, including vacuum systems, the ion gun, ion optics and the vacuum chamber and its apparatus.

Science Analyst, Innovi SA. (January 1987 - December 1987).
Scientific evaluation and reports for venture capital company.

Administrative Appointments

Department

CBI Associate Director (2011 - Present)

Responsible for reviewing and signing off on center's activities in the absence of director. Coordination of research activities, proposals, representation of the institute at various activities participation in decision process and implementation for institute personnel.

Program Coordinator (2012 - 2013)

Physics Program - program coordination, course scheduling, contact person with core, weave online, arranging courses with Texas Physics Coalition, documents for new BS Physics, developing new labs with Galina Reid

CBI Assistant Director (2009 - 2011)

Responsible for reviewing and signing off on center's activities in the absence of director, conducts weekly meeting. In 2011 coordinated allocation of new space and office moves for the institute, supervision of proposals budget, participated in decision on institute hiring and layoffs.

Science Teacher Preparation Contact (2006 - 2011)

Responsibilities included frequent advising, coordination with other departments and College of Education, preparation of students for certification exams

College

Program Coordinator (2006 - 2007)

Coastal and Marine System Science (CMSS) PhD program Coordinator. Organized and supervised program operations for years 2 & 3 of the program including students, classes, assistantships and changes in operations and leadership of the degree.

Program Coordinator (2003 - 2006)

First SMTE coordinator with responsibilities including creating the program, catalog copy, migration of courses and beginning and coordination of operations.

Professional Memberships

American Association of University Professors
National Science Teacher Association
American Meteorological Society
Sigma Xi
American Nuclear Society
American Physical Society

TEACHING

Teaching Experience

CMSS 6352, ENVIRONMENTAL FORECASTING
CMSS 6596, Environmental Forecasting
CMSS 6699, DISSERTATION DEFENSE
CMSS 6940, DISSERTATION PROJECT RESEARCH
CMSS 6996, RESEARCH
CMSS 6998, DISSERTATION RESEARCH
ESCI 4498, INTERNSHIP IN ENVIRO SCIECE
ESCI 5292, THESIS I: THESIS PROPOSAL
ESCI 5293, THESIS II: THESIS RESEARCH
ESCI 5294, THESIS III: THESIS SUBMISSION
ESCI 5394, THESIS III: THESIS SUBMISSION
ESCI 5397, DIRECTED RESEARCH
ESCI 5596, DIR: An Overview of Electronic Waste
ESCI 5940, PROJECT RESEARCH.
PHYS 1401, GENERAL PHYSICS I
PHYS 2425, UNIVERSITY PHYSICS I
PHYS 2426, UNIVERSITY PHYSICS II
PHYS 3311, CLASSICAL MECHANICS
PHYS 3490, SELECTED TOPICS: Mathematical Methods of Physics
SMTE 3315, FOUND APPROACHES TO PHYS SCI

Teaching Awards and Honors

Spring 2010 Texas A&M University System Chancellor Teaching Excellence Award, Texas A&M University System. (2010).
Selected as Member of The Academy for Educator DevelopmentThe Academy for Educator Development, Texas A&M University System. (2002).

SCHOLARLY AND CREATIVE ACTIVITIES

Publications

Refereed

Conference Proceedings

Warner, N. N., Sterba-Boatwright, B. D., Tissot, P., Jeffress, G. A. (2012). Estimated Increase in Inundation Probability with Confidence Intervals for Galveston, Texas. In Spaulding, M. L. (Ed.), *Estuarine and Coastal Modeling: Proceedings of the Twelfth International Conference, November 7-9, 2011, St. Augustine, Florida* (pp. 528-541). American Society of Civil Engineers.

Reid, S., Tissot, P. (2012). Hydrodynamic Model Implementation for Navigation Support in Corpus Christi Bay. In Malcolm L. Spaulding (Ed.), *Estuarine and Coastal Modeling* (pp. 496-509). Reston, Virginia: American Society of Civil Engineers.
[http://www.asce.org/Books-and-Journals/Books---Personify/Proceedings-\(PPR\)/Estuarine-and-Coastal-Modeling-\(2011\)/](http://www.asce.org/Books-and-Journals/Books---Personify/Proceedings-(PPR)/Estuarine-and-Coastal-Modeling-(2011)/)

Zimmer, B. G., Sadovski, A. L., Tissot, P., Sterba-Boatwright, B. D. (2008). In C. H.Dagli et. Al. (Ed.), *Monte Carlo Simulations and Factor Analysis to Optimize Neural Network Input Selections and Architectures* (vol. 18, pp. 501-508). New York, NY: Engineering Systems through Artificial Neural Networks / ASME Press.

Sadovskii, A. L., Steidley, C., Tissot, P., Zimmer, B. G. (2005). *Real Time Web Availability of Statistical Models for Water Levels along the Texas Coastline* (2005th ed., vol. Vol. 4 – Signal Processing, systems modeling and control, pp. p. 218-223). ICINCO 2005, Proceedings of the Second International Conference on Informatics in Control, Automation and Robotics, Barcelona, Spain, September 14-17, 2005.

Zimmer, B. G., Tissot, P., Flores, J. S., Bowles, Z., Sadovskii, A. L., Steidley, C. (2005). *Water Level Forecasting along the Texas Coast: Interdisciplinary Research with Undergraduates*. Portland, Oregon: Proceedings of the 2005 American Society for Engineering Education Annual Conference & Exposition.

Zimmer, B. G., Flores, J. S., Tissot, P., Sadovskii, A. L. (2005). *Research with an Undergraduate Student: Using Entropy to Assess the Training of a Neural Network* (2005th ed., pp. 8 pages). Proceedings of the American Society for Engineering Education-Gulf-Southwest Section 2005 Annual Conference.

Tissot, P., Cox, D. T., Sadovskii, A. L., Michaud, P., Duff, J. S. (2004). In Stephen Curtis (Ed.), *Performance and Comparison of Water Level Forecasting Models for the Texas Ports and Waterways*. Reston, Virginia: Proceedings of the PORTS 2004 Conference / Coasts, Oceans, Ports and Rivers Institute. <http://content.coprinstitute.org/pubs/proceedings.html>

Tissot, P., Cox, D. T., Michaud, P. (2002). In Billy L. Edge and J. Michael Hemsley (Ed.), *Neural Network Forecasting of Storm Surges along the Gulf of Mexico* (vol. 2, pp. 1535-1544). Reston, Virginia: Ocean Wave Measurement and Analysis / American Society of Civil Engineers.

Nam, Y. J., Cox, D. T., Tissot, P., Michaud, P. (2002). In Billy L. Edge and J. Michael Hemsley (Ed.), *Observations and predictions of tides and storm surges along the Gulf of Mexico* (vol. 2, pp. 1625-1633). Reston, Virginia: Ocean Wave Measurement and Analysis / American Society of Civil Engineers.

Guannel, G., Tissot, P., Cox, D. T., Michaud, P. (2001). In Hans Hanson & Magnus Larson (Ed.), *Local and Remote Forcing of Subtidal Water Level and Current Fluctuations in Coastal and Estuarine Environments* (pp. 443-452). Reston, Virginia: Coastal Dynamics '01 / American Society of Civil Engineers.

Tissot, P., Crowe, L., Colvin, J., Mann, T. L., Guerra, A. (1998). In Peter Kittel (Ed.), *Design and Testing of a Pulsed Tube Based Cooling System for High Purity Germanium Detectors* (vol. 43, pp. 2069-2076). New York, NY: Advances in Cryogenic Engineering / Plenum Press.

Journal Articles

Dalthorp, M., Naehr, T. H., Tissot, P., Garcia-Pineda, O. (2013). The Relationship of Subsurface Reservoir Properties and Hydrocarbon Sea-surface Slicks in the Northern Gulf of Mexico. *AAPG/SEG joint book publication: Hydrocarbon Seepage: From Source to Surface.*, 185-198.

Warner, N. N., Tissot, P. (2012). Storm Flooding Sensitivity to Sea Level Rise for Galveston Bay, Texas. *Ocean Engineering*, 44, 23-32. <http://dx.doi.org/10.1016/j.oceaneng.2012.01.011>

Sadovskii, A. L., Zimmer, B. G., Sterba-Boatwright, B. D., Tissot, P., Bachnak, R. (2006). Analysis of the Gulf of Mexico Coastal and Estuarine Water Levels as Random Signals. *WSEAS Transactions on Mathematics*, 5(11), pp.1234-1241.

Steidley, C., Thomas, D. R., Rush, R., Tissot, P., Sadovski, A. L. (2005). Applying Signal Processing Techniques to Water Anomaly Detection. *Proceedings of the Second International Conference on Informatics an Control, Automation and Robotics, IV*, 303-309.

Mostella, A., Sadovski, A. L., Duff, J. S., Michaud, P., Tissot, P., Steidley, C. (2005). Comparison of Gap Interpolation Methodologies for Water Level Time Series Using PERL/PDL. *Revista de Matematica: Teoria y Aplicaciones*, 12(1 & 2), 157-164.

Steidley, C., Rush, R., Tissot, P., Sadovski, A. L., Thomas, D. R. (2005). Signal Post-processing as Applied to Texas Coastal Ocean Observation Network (TCOON) Data. *Proceedings of the Seventh Controls and Applications Conference of the International Association of Science and Technology for Development*.

Bowles, Z., Tissot, P., Michaud, P., Sadovski, A. L. (2005). Artificial Neural Network Predictions of Water Levels in a Gulf of Mexico Shallow Embayment. *Revista de Matematica: Teoria y Aplicaciones*, 12(1 & 2), 139-150.

Brandenberger, J., Louchouart, P., Herbert, B., Tissot, P. (2004). Geochemical and hydrodynamic controls on arsenic and trace metal cycling in a seasonally stratified US sub-tropical reservoir. *Applied Geochemistry / Elsevier*, 19, 1601-1623.

Cox, D. T., Tissot, P., Michaud, P. (2002). Water Level Observations and Short-Term Predictions Including Meteorological Events for Entrance of Galveston Bay, Texas. *Journal of Waterway, Port, Coastal and Ocean Engineering*, 128(1), 21-29.

Tissot, P., Hart, R. R., McCoy, J. (1995). Medium Energy implantation of germanium into heated <100> Silicon. *Applied Physics Letters*, 66(8), 979-981.

Tissot, P., Hart, R. R. (1993). Ion Beam Heating of Thin Silicon Membranes. *Nuclear Instruments and Methods*, B79, 796-799.

Article Discussion

Warner, N. N., Tissot, P. (2012). Response to "Discussion of 'Storm flooding sensitivity to sea level rise for Galveston Bay, Texas' by Warner, N.N. and Tissot, P.E. [Ocean Engineering 44 (2012) 23–32]. *Ocean Engineering*, 44, 126-127.
<http://dx.doi.org/10.1016/j.oceaneng.2012.05.020>

Reply to Comment

Tissot, P., Warner, N. N. (2012). Reply to: Alberto A. Boretti. Discussion of Natalya N. Warner, Philippe E. Tissot, Storm flooding sensitivity to sea level rise for Galveston Bay, Texas, *Ocean Engineering* 44(2012); 23-32. *Ocean Engineering*, 55, 238-239.
<http://www.sciencedirect.com/science/article/pii/S0029801812002533>

Technical Reports

Tissot, P., Martin, D., Bush, L. (2010). *Determining the Tidal or Non-Tidal Nature of Florida Keys Water Level Stations*. data.labins.org/2003/

Non-Refereed

Books

Reid, G. V., Tissot, P. (2009). *A Teacher's Guide to Physical Science* (pp. 164). Dubuque, Iowa: Kendall Hunt.

Conference Proceedings

Warner, N. N., Sterba-Boatwright, B. D., Tissot, P., Jeffress, G. A. (2012). Estimated increase in inundation probability with confidence intervals for Pensacola, Florida and Key West, Florida. *Oceans, 2012* (pp. 1-10). IEEE.

Journal Articles

Froeschke, B. F., Tissot, P., Stunz, G. W., Froeschke, J. T. (2013). Spatio-temporal predictive models for juvenile Southern Flounder in Texas estuaries. *North American Journal of Fisheries Management*.

Simoniello, C., Tissot, P., McKee, D. A., Adams, J., Ball, R., Butler, R. (2010). A Cooperative Approach to Resource Management: Texas Gamefish Win. *Journal of the Marine Technology Society*, 44(5), 5-9.

Course/Curriculum Guides

Reid, G. V., Tissot, P. (2013). *Physics I Lab Manual*. TAMUCC. Blackboard

Research Reports

Hill, E. M., Besonen, M., Tissot, P., A., N. B. (2014). *Nueces Bay Zinc in Sediment Profiling Assessment (CBBEP Project Number 1313, CBBEP Publication Number 91)*.
www.cbbep.org/water-sediment-and-air-quality-publications/

Tissot, P., Rodriguez, J. (2007). *Coastal Navigational Safety in Texas: A study of the causes of navigational accidents along the Texas coast with comparisons with Florida, and the United States*. <http://lighthouse.tamucc.edu/TissotPhilippe/NavigationalSafetyStudy>

Tissot, P., Ball, R., Adams, J. (2007). *Monitoring and Predictive Modeling of Water Temperatures in the Laguna Madre*.
<http://lighthouse.tamucc.edu/Forecasts/TPWDRreport2007>

Tissot, P. (2005). *Study of a Possible Link between Drowning and Near-Drowning Events and Surf Conditions in South Texas*.
<http://lighthouse.tamucc.edu/TissotPhilippe/SurfDrowningStudy>

Technical Reports

Tissot, P., Duff, J. S., Clifford, J., Romo, C. (2012). *Development of the Transit Time! Mobile App for Houston/Galveston PORTS® and other NOAA PORTS®* (pp. 56).

Kennedy, J., Tissot, P. (2010). *Coastal Bend Workshop on Streaming Atmospheric and Oceanographic Environmental Data*.

Presentations

Tissot, P., "Sea Level Rise, Climate Change and Coastal Planning," 2013 Coastal Bend Hurricane Conference, Robstown, Robstown, Texas. (May 15, 2016).

Sadovski, A. L., Jeffress, G. A., Tissot, P., Duff, J. S., "Mean Sea Level-What are the Recent Changes Along the Texas Gulf Coast?," International Geographic Union Meeting 2015, International Geographic Union, Moscow, Russia. (August 17, 2015).

Besonen, M. (Author & Presenter), Zimba, P. V. (Author), Hill, E. M. (Author), Tissot, P. (Author), McKay, M. C. (Author), Nicolau, B. (Author), Hu, X., Silliman, J. E., "Long-term Water Quality and Environmental Changes in Baffin Bay as Inferred from Sediment Cores—Preliminary Results," Texas Bays and Estuaries Meeting, University of Texas Marine Sciences Institute, Port Aransas, TX. (April 2014).

Starek, M. J. (Author & Presenter), Bridges, D. (Author), Gibeaut, J. (Author), Tissot, P. (Author), "Unmanned Aerial System for Coastal Reconnaissance of the Near-shore Zone," ASPRS Annual Conference, American Society for Photogrammetry and Remote Sensing, Louisville, KY. (March 25, 2014).

McKay, M. C. (Author & Presenter), Besonen, M. (Author), Tissot, P., Zimba, P. V., Hill, E. M., "Understanding the Development of South Texas Bays and Estuaries from a Paleoperspective," 2014 Ocean Sciences Meeting, ASLO, AGU, and TOS; Association for the Sciences of Limnology and Oceanography, American Geophysical Union, and The Oceanography Society, Honolulu, Hawaii USA. (February 2014).

Besonen, M. (Author & Presenter), Zimba, P. V., Hill, E., Tissot, P., McKay, M., Silliman, J. E., "Finding The Baseline—Putting Recent Eutrophication Of Two South Texas Coastal Water Bodies Into Perspective By Using Sedimentary Records To Examine The Long-Term, Natural Variability Of The Systems," AGU Fall Meeting, American Geophysical Union, San Francisco, CA (USA). (December 2013).

Rutledge, W. (Author & Presenter), Collins, W. (Author), Tissot, P. (Author), "A Sea Surface Temperature Neural Network model for the Prediction of Cloud to Surface Lightning," 2013 TAMUCC Undergraduate Research Symposium, Sigma Xi, Corpus Christi, Texas. (March 2, 2013).

Nguyen, H. (Author & Presenter), Zhu, W. (Author), Tissot, P. (Author), "Detection of Drift in Water Level Time Series," 2013 TAMUCC Undergraduate Research Symposium, Sigma Xi, Corpus Christi, Texas. (March 2, 2013).

Zhu, W. (Author & Presenter), Nguyen, H. (Author), Tissot, P. (Author), "Model Comparison for Improving Water Level Data Quality," 2013 TAMUCC Undergraduate Research Symposium, Sigma Xi, Corpus Christi, Texas. (March 2, 2013).

Clifford, J. (Author & Presenter), Picarazzi, F. (Author), Tissot, P. (Author), "Transit Time: Mobile Device Based Visualization and Prediction for Navigation," 2013 TAMUCC Undergraduate Research Symposium, Sigma Xi, Corpus Christi, Texas. (March 2, 2013).

Warner, N. N. (Author & Presenter), Tissot, P. (Other), Sterba-Boatwright, B. D. (Other), Jeffress, G. A. (Other), "Storms, Sea Level Rise and Estimated Increase in Inundation Probability with Confidence Intervals for Texas and Florida stations," 93rd AMS Annual Meeting, Austin, Texas. (January 10, 2013).

Tissot, P., "CBI-TCOON: An Integrated Observations and Operational Predictions System for Gulf of Mexico Coastal Waters," 11th Symposium on the Coastal Environment, American Meteorological Society, Austin, Texas. (January 7, 2013).

Reid, s. (Author & Presenter), Tissot, P. (Author), Williams, D. (Author), "Inundation Analysis Using GIS and Hydrodynamic Modeling," 11th Symposium on the Coastal Environment, American Meteorological Society, Austin, Texas. (January 6, 2013).

Warner, N. N. (Author & Presenter), Sterba-Boatwright, B. D. (Other), Tissot, P. (Other), Jeffress, G. A., "Storms, Sea Level Rise and Estimated Increase in Inundation Probability with Confidence Intervals for Pensacola, Florida and Key West, Florida," Oceans ' 12 IEEE/MTS, Hampton Roads, Virginia. (October 14, 2012).

Tissot, P. (Author & Presenter), "Climate Change and the Gulf Coast," Gulf of Mexico Regional Climate Modeling Workshop, Texas Center for Climate Studies, College Station, Texas. (May 30, 2012).

Radosavljević, B. (Author & Presenter), Gibeaut, J., Tissot, P., "Sea-Level Rise: Estuarine Wetlands of Mustang Island at Imminent Risk of Submergence," 2012 EGU General Assembly, European Geological Union, Vienna, Austria. (April 27, 2012).

Tissot, P. (Author & Presenter), Collins, W., "Comparison of Machine Learning Techniques for the Prediction of Thunderstorm Location," Tenth Conference on Artificial and Computational Intelligence and its Applications to the Environmental Sciences, American Meteorological Society, New Orleans, La. (January 25, 2012).

Matchett, M. (Author & Presenter), Tissot, P., "The Effects of Adding Wave Data to a Water Level Predictive Mode," 11th Annual AMS Student Conference and Career Fair, American Meteorological Society, New Orleans, Louisiana. (January 22, 2012).

Rutledge, W. (Author & Presenter), Tissot, P. (Author), "A Water Level Prediction Model for the Port of Baltimore," Twelfth International Conference on Estuarine & Coastal Modeling, St. Augustine, Fl. (November 7, 2011).

Warner, N. N. (Author & Presenter), Sterba-Boatwright, B. D. (Author), Tissot, P. (Author), Jeffress, G. A. (Author), "Storms, Sea Level Rise and Estimated Increase in Inundation Probability with Confidence Intervals for Galveston, Texas," Twelfth International Conference on Estuarine & Coastal Modeling, St. Augustine, Florida. (November 7, 2011).

Tissot, P. (Author & Presenter), "Application of Computational Intelligence for the Design and Implementation of Real-Time Coastal Models," Twelfth International Conference on Estuarine and Coastal Modeling, St. Augustine, Florida. (November 7, 2011).

Clifford, J. (Author & Presenter), Romo, C. (Author & Presenter), Reid, S. (Author), Tissot, P. (Author), "Development and Implementation of Mobile Applications for Access and Visualization of Coastal Predictions," Twelfth International Conference on Estuarine and Coastal Modeling, St. Augustine, Florida. (November 7, 2011).

Reid, S. (Author), Tissot, P. (Author & Presenter), "Hydrodynamic Model Implementation for Navigation Support in Corpus Christi Bay," Twelfth International Conference on Estuarine and Coastal Modeling, St. Augustine, Florida. (November 7, 2011).

Matchett, M. (Author & Presenter), Tissot, P., "The Effects of Adding Wave Data to a Water Level Predictive Mode," LSU Triple Ex Symposium for Undergraduate Research, Louisiana State University, Baton Rouge, Louisiana. (November 4, 2011).

Rutledge, W. (Author & Presenter), Tissot, P. (Author), "A Water Level Prediction Model for the Port of Baltimore," Eleventh Texas A&M University-Corpus Christi Undergraduate Research Symposium, Corpus Christi, Texas. (September 23, 2011).

Clifford, J. (Author & Presenter), Romo, C. (Author & Presenter), Reid, S. (Author), Tissot, P. (Author), "Development and Implementation of Mobile Applications for Access and Visualization

of Coastal Predictions," Eleventh Texas A&M University-Corpus Christi Undergraduate Research Symposium, Corpus Christi, Tx. (September 23, 2011).

Cordero, S. (Author), Tissot, P. (Author), Kennedy, J. (Author & Presenter), "Coastal Bend Collaborative Consortium of Streaming Atmospheric and Oceanographic Environmental Data," Coastal Zone 2011 conference, Chicago. (July 2011).

Kennedy, J. (Author & Presenter), Jeffress, G. (Author), Tissot, P. (Author), "Coastal Bend and State of Texas Collaborative Consortium of Streaming Atmospheric and Oceanographic Environmental Data," Fifth Annual Graduate Scholarly Works Symposium, Texas A&M University-Corpus Christi, Corpus Christi, Tx. (April 22, 2011).

Tissot, P. (Author & Presenter), "Predictive Modeling and the Texas Coastal Ocean Observation Network (TCOON)," Environmental Engineering Seminar, Texas A&M University-Kingsville. (April 11, 2011).

Tissot, P. (Author & Presenter), "Operational Models for the Support of Navigation and Coastal Decisions at CBI-TCOON," NOAA Center for Operational Oceanographic Products and Services (CO-OPS), Silver Spring, Md. (April 11, 2011).

Tissot, P. (Author & Presenter), "Relative Sea Level Rise and the Texas Coastal Ocean Observation Network (TCOON)," NOAA Center for Operational Oceanographic Products and Services (CO-OPS), Silver Spring, Md. (April 11, 2011).

Simoniello, C. (Author & Presenter), Tissot, P. (Author), McKee, D. A. (Author), Adams, J. (Author), Ball, R. (Author), Butler, R. (Author), "A Cooperative Approach to Resource Management: Texas Gamefish Win," 2011 ASLO Aquatic Sciences Meeting, San Juan, Puerto Rico. (February 2011).

Reid, S. (Author & Presenter), Nevel, Y. (Author), Tissot, P. (Author), Davis, J. (Author), "Hydrodynamic Model Comparison for Corpus Christi Bay," 10th Annual Student Conference, American Meteorological Society, Seattle, WA. (January 23, 2011).

Tissot, P. (Author & Presenter), "Sample Application of CI: Coastal Water Level Predictions," 2011 American Meteorological Society Educational Forum on Computational Intelligence Techniques, American Meteorological Society, Seattle, Wa. (January 23, 2011).

Reid, S. (Author & Presenter), Nevel, Y. (Author), Tissot, P. (Author), "Hydrodynamic Model Comparison for Corpus Christi Bay," 10th TAMUCC Undergraduate Research Symposium, Coastal Bend Chapter of Sigma Xi, Corpus Christi, Texas. (September 25, 2010).

Hiracheta, D. (Author & Presenter), Reid, S. (Author), Tissot, P. (Author), "Potential for Application of ANN Water Level Prediction Models Around the Gulf of Mexico," 10th TAMUCC Undergraduate Research Symposium, Coastal Bend Chapter of Sigma Xi, Corpus Christi, Texas. (September 25, 2010).

Ekeh, I. C. (Author & Presenter), Reid, S. (Author), Tissot, P. (Author), "Coastal Modeling System Grid Optimization for Corpus Christi Bay," Eighth Annual SURF Symposium, Texas A&M University-Corpus Christi, Corpus Christi, Texas. (July 29, 2010).

Tissot, P., "Coastal Modeling at the Texas Coastal Ocean Observation Network (TCOON)," Technical Session of the 2010 TCOON Meeting, Texas General Land Office, Austin, Texas. (June 2, 2010).

Chavez, R. (Author & Presenter), Tissot, P. (Author), Collins, W. (Author), Probst, O. (Author), "On the accuracy of numerical weather prediction models for wind speed predictions along the

Texas Gulf coast," Windpower 2010, American Wind Energy Association, Dallas, Texas. (May 2010).

Tissot, P., "Coastal Modeling and the Texas Coastal Ocean Observation Network (TCOON)," US Army Corps of Engineer, ERDC, Coastal & Hydraulics Laboratory, Vicksburg, Mississippi. (May 27, 2010).

Tissot, P. (Author & Presenter), "CBI Real-time Coastal Predictions," 2010 Corpus Christi Weather Forecast Office Marine Workshop, Corpus Christi Weather Forecast Office, Corpus Christi, Texas. (May 14, 2010).

Radosavljevic, B. (Author & Presenter), Gibeaut, J. (Author), Tissot, P. (Author), "Vertical Accretion Rates in Estuarine Wetlands of Mustang Island, TX Using Cs-137," Texas Bays and Estuaries Meeting, The University of Texas Marine Science Institute, Port Aransas, Texas. (April 15, 2010).

Tissot, P. (Author), Bush, L. (Author & Presenter), Martin, D. (Author), "Determining the Tidal or Non Tidal Nature of Florida Keys Water Level Stations," 2010 Ocean Sciences Meeting, Portland, Oregon. (March 2010).

Sadovski, A. L. (Author & Presenter), Jeffress, G. A. (Author), Tissot, P. (Author & Presenter), Duff, J. S. (Author), Ussery, S. (Author), "Mean Sea Level-What are the Recent Changes Along the Texas Gulf Coast?," 2010 Sea Level Rise Conference, Harte Research Institute, Corpus Christi, Texas. (March 2010).

Warner, N. N. (Author & Presenter), Tissot, P., Sterba-Boatwright, B. D., Jeffress, G. A., "Comparison of Extreme Value Statistical Distributions and Implications for Galveston Pier 21," Sea Level Rise 2010 Conference, Harte Research Institute, Corpus Christi, TX. (March 1, 2010).

Tissot, P. (Author & Presenter), Rizzo, J. (Author), "CBI-TCOON: An Integrated Observation and Operational Forecast System for the Gulf of Mexico," NOAA Center for Operational Oceanographic Products and Services (CO-OPS), Silver Spring, Maryland. (November 18, 2009).

Reid, S. (Author & Presenter), Tissot, P., "Performance of a Water Level Predictive Model at Freeport, Texas," 9th TAMUCC Undergraduate Research Symposium, Coastal Bend Chapter of Sigma Xi, Corpus Christi, Texas. (October 2009).

Tissot, P. (Author & Presenter), "A Comparative Discussion of Machine Learning and Physical Models for Coastal Ocean Observation Networks," Data Integration and Management on the Gulf of Mexico Workshop, Texas A&M University-Corpus Christi, Corpus Christi, Texas. (May 2009).

Durham, N. (Author & Presenter), Tissot, P. (Author), Davis, J. (Author), Duff, J. S., "On Demand Neural Network Based Water Level Prediction System," Data Integration and Management on the Gulf of Mexico Workshop, Texas A&M University-Corpus Christi, Corpus Christi, Texas. (May 2009).

Reisinger, A. (Author & Presenter), Tissot, P., Hicks, D. W., Gibeaut, J., "A neural network spatial model for salinity in Bahia Grande," 2009 Texas Bays and Estuaries Conference, University of Texas Marine Science Institute, Port Aransas, Texas. (April 2009).

Villarreal, A. (Author & Presenter), Tissot, P. (Author), Hay, R. G. (Author), "Analysis and Verification of NEXRAD Precipitation Estimates for the Texas Coastal Bend," 8th American Meteorological Society Student Conference, American Meteorological Society, Phoenix, Arizona. (January 2009).

Ball, R. (Author & Presenter), Tissot, P., Zimmer, B. G., Sterba-Boatwright, B. D., "Comparison of random forest, artificial neural network, and multi-linear regression: a water temperature prediction case," Seventh Conference on Artificial Intelligence and its Applications to the Environmental Sciences, American Meteorological Society, Phoenix, Arizona. (January 2009).

Zimmer, B. G., Tissot, P., "Texas Coastal Observation Network: what to do with the wealth of data," SAMSI workshop on Environmental Sensor Networks, SAMSI, Raleigh, NC. (January 24, 2008).

Ball, R. (Author & Presenter), Tissot, P., Zimmer, B. G., Adams, J., Sterba-Boatwright, B. D., "ANN predictive water temperature modeling of cold water events in a shallow lagoon.," Fifth Conference on Artificial Intelligence Applications to Environmental Science, American Meteorological Society. (January 2007).

Tissot, P. (Author & Presenter), "Neural Network Modeling and the Texas Coastal ocean Observation Network," Fourth Seminar on Selected Topics of Applied Mathematics on Ocean Engineering, Universidad Nacional Autonoma de Mexico, Mexico City, Mexico. (May 28, 2003).

Contracts, Grants and Sponsored Research

Contract

Tissot, Philippe (Principal), Rizzo, James (Co-Principal), "Gulf Offshore Wind (GoWind)," Sponsored by Baryonyx Corporation through Department of Energy, Federal, \$300,045.00. (September 1, 2012 - August 31, 2015).

Tissot, Philippe, "Hydrodynamic Modeling of Tidal Flats," Sponsored by TAMUCC, Texas A&M University-Corpus Christi, \$5,000.00. (September 1, 2012 - August 31, 2013).

Tissot, Philippe (Principal), Duff, Jonathan Scott (Co-Principal), "Transit Time! Mobile Application," Sponsored by National Oceanic and Atmospheric Administration, Federal, \$25,000.00. (February 8, 2012 - July 31, 2012).

Tissot, Philippe (Co-Principal), Mecikalski, John (Principal), Williams, John, "Improved Connective Initiation Forecasting in the Gulf of Mexico Region," Sponsored by National Aeronautic and Space Administration, Federal, \$37,818.00. (June 1, 2010 - May 31, 2012).

Tissot, Philippe (Supporting), Tunnell, John W (Co-Principal), Smith, Elizabeth Hovey (Supporting), "NOAA Environmental Cooperative Science Center," Sponsored by National Oceanic and Atmospheric Administration, Federal, \$46,551.00. (September 1, 2010 - August 31, 2011).

Tissot, Philippe (Principal), Martin, Doug (Co-Principal), "Tidal or Non-Tidal Nature of a Set of Shallow Water Stations in the Vicinity of the Florida Indian River," Sponsored by Cooner and Associates, Private, \$39,970.00. (December 14, 2009 - June 1, 2011).

Tissot, Philippe (Supporting), Tunnell, John W (Co-Principal), Smith, Elizabeth Hovey (Supporting), "NOAA Environmental Cooperative Science Center," Sponsored by National Oceanic and Atmospheric Administration, Federal, \$51,063.00. (September 1, 2009 - August 31, 2010).

Tissot, Philippe (Principal), Martin, Doug (Co-Principal), "Tidal or Non-Tidal Nature for set of Florida Keys Shallow Water Stations," Sponsored by Cooner and Associates, Private, \$47,720.00. (December 2008 - August 2009).

Tissot, Philippe (Supporting), Tunnell, John W (Co-Principal), Smith, Elizabeth Hovey (Supporting), "NOAA Environmental Cooperative Science Center," Sponsored by National Oceanic and Atmospheric Administration, Federal, \$45,882.00. (September 1, 2008 - August 31, 2009).

Tissot, Philippe (Supporting), Tunnell, John W (Co-Principal), Smith, Elizabeth Hovey (Supporting), "NOAA Environmental Cooperative Science Center," Sponsored by National Oceanic and Atmospheric Administration, Federal, \$48,296.00. (September 1, 2007 - August 31, 2008).

Tissot, Philippe (Supporting), Tunnell, John W (Co-Principal), Smith, Elizabeth Hovey (Supporting), "NOAA Environmental Cooperative Science Center," Sponsored by National Oceanic and Atmospheric Administration, Federal. (January 1, 2007 - August 31, 2007).

Sponsored Research

Besonen, Mark (Co-Principal), Hill, Erin M. (Principal), Tissot, Philippe (Co-Principal), Nicolau, Brien A., "CKD--FUNDED--Nueces Bay Zinc in Sediment Profiling Assessment Project 1313," Sponsored by Coastal Bend Bays & Estuaries Program, Other, \$75,000.00. (November 1, 2012 - August 31, 2013).

SERVICE

Department

Committee Chair, Physics Professional Track Search Committee. (August 2012 - August 2013).
Committee Member, Physics Search Committee. (March 2013 - June 2013).
Committee Member, Atmospheric Science Search Committee. (September 2012 - June 2013).
Committee Chair, Atmospheric Science Faculty Search. (September 2011 - June 2012).
Committee Member, Physics faculty search. (September 2010 - April 2011).
Committee Member, Geology Faculty Search. (August 2010 - April 2011).
Committee Chair, Oceanography Faculty Search. (July 2009 - May 2010).

College

Committee Member, CBI Endowed Chair. (May 2012 - November 2012).
Committee Member, Assistant Professor of Geographic Information Science and Geospatial Surveying Engineering. (June 2012 - August 2012).
Committee Member, College Steering Committee. (September 2011 - May 2012).

University

Committee Member, Beyond the Core Taskforce. (October 2011 - Present).

Professional

Committee Member, American Meteorological Society Committee on Artificial Intelligence Applications to Environmental Science. (2005 - 2012).
Reviewer, Conference Paper, CIDU, Conference on Intelligent Data Understanding. (June 2012 - November 2012).
Reviewer, Journal Article, Hindawi Publishing Corporation. (June 2012 - July 2012).
Lead Writer for, GCOOS. (December 2010 - March 2011).