

Publications of Fall 2009 – Spring 2012 PhD Graduates in Ocean Engineering, Florida Atlantic Univ.

Name	Year of Graduation
1. Ed Carlson	2009-10
2. M R Khan	2010-11
3. Yue-Yue Deng	2010-11
4. Binu Pundir	2011-12
5. Felicia Powell	2011-12
6. Fnu Lakitosh	2011-12

Publications by above PhD graduates in Ocean Engineering (PhD Graduates Name in Boldface)

1. P.-P. J. Beaujean and **E.A. Carlson**, “HERMES – A High Bit-Rate Underwater Acoustic Modem Operating at High-Frequencies for Ports and Shallow Water Applications”, Marine Technology Society Journal, Vol. 43, no. 2, 2009, pp. 21-32.
2. **E.A. Carlson**, P.-P. J. Beaujean, and E. An, “An Ad Hoc Wireless Acoustic Network Simulator Applied to Multiple Underwater Vehicle Operations in Shallow Waters Using High-frequency Acoustic Modems,” JUA(USN) 56, 113-139 (2006).
3. P.P.J. Beaujean, **E.A. Carlson**, J. Spruance, “High Bit-Rate Underwater Acoustic Communications in Difficult Environments”, Sea Technology, pp. 17-21, [May 2009](#).
4. P.-P. Beaujean, M. Pajovic, **E.A. Carlson**, J. Spruance, “Frequency-Hopped Frequency Division Multiplexed Signaling for Underwater Acoustic Communications between 60 and 90 kHz in Ports and Very Shallow Waters”, Proc. of the MTS/IEEE Oceans’2009, Biloxi, Mississippi, pp. 1-7.
5. P.P.J. Beaujean, **E.A. Carlson**, J. Spruance, D. Kriel, “HERMES – A High-Speed Acoustic Modem for Real-Time Transmission of Uncompressed Image and Status Transmission in Port Environment and Very Shallow Water”, Proceedings of MTS/IEEE Oceans’08, [September 2008](#), Québec, Canada.
6. **E. A. Carlson**, P.-P. Beaujean and E. An, “An Improved Location-Aware Routing Protocol for Mobile Underwater Acoustic Networks”, Proceedings of MTS/IEEE Oceans’07, [October 2007](#), Vancouver, Canada
7. **E. A. Carlson**, P.-P. Beaujean and E. An, “Location-Aware Routing Protocol for Underwater Acoustic Networks”, Proceedings of MTS/IEEE Oceans’06, [September 2006](#), Boston.
8. E. An, P.-P. Beaujean, B. Baud, **E.A. Carlson**, A. Folleco, and T.J. Tarn. “Multiple communicating autonomous underwater vehicles”, Proceedings of the 17th Annual Florida Conference on the Recent Advances in Robotics (FCRAR), [May 2004](#).
9. **Y. Deng**, P.P. Beaujean, E. An, E. Carlson, “Task Allocation and Path Planning for Collaborative AUVs operating through an Underwater Acoustic Network”, Proc. of the MTS/IEEE Oceans’2010, Seattle, Washington, [September 2010](#), pp. 1-9.
10. **Y. Deng**, P.P. Beaujean, E. An and E. Carlson, “Location-aided Task Assignment for Multiple Cooperative Underwater Vehicles”, Proceedings of the Florida Conference on Recent Advances in Robotics 2009, [May 2009](#), Jupiter, Florida.
11. **Y. Deng**, P.P.J. Beaujean, E. An, E.A. Carlson, “A Path Planning Control Strategy for Search-Classify Task using Multiple Cooperative Underwater Vehicles”, Proceedings of MTS/IEEE Oceans’08, [September 2008](#), Québec, Canada.

12. **M. R. Khan**, H. Mahfuz, Th. Leventouri, V. K. Rangari and A. Kyriacou, "Enhancing toughness of LDPE filaments through infusion of MWCNTs and UHMWPE", Journal of polymer engineering and science, 2010
13. **M. R. Khan**, H. Mahfuz, and V. Rangari, "Enhancing strain hardening behavior of ultra high molecular weight polyethylene fibers with carbon nanotubes (CNTs) reinforcement", ASME International Mechanical Engineering Congress & Exposition, November 13-19, 2009, Lake Buena Vista, Florida, USA.
14. **M. R. Khan**, H. Mahfuz, and A. Kyriacou, "Synthesis and Characterization of Low Density Polyethylene (LDPE) Reinforced with Functionalized CNTs, Nano-, Bio-, Cellular and Nonlinear Materials", IMECE 2008-68034, Proceedings of IMECE 2008, ASME International Mechanical Engineering Congress and Exposition, October 31-November 6, 2008, Boston, Massachusetts, USA.
15. **M.R. Khan**, H. Mahfuz and T. Leventouri, "Investigation of infusion of Ultra high molecular weight polyethylene (UHMWPE) and carbon nanotube (CNT) into low density polyethylene (LDPE)", SAMPE fall conference, Sept. 8-11, 2008, Memphis, Tennessee.
16. H. Mahfuz, **M. R. Khan**, A. Adnan. M. M. Hasan, V. K. Rangari, S. Jeelani and V. Dhanak, "Advances in nanoscale reinforcement of Textile polymers", Proceedings of the 4 th BSME –ASME International Conference on Thermal Engineering, 27-29 December, 2008, Dhaka, Bangladesh.
17. H. Mahfuz, **M. R. Khan** and T. Leventouri, "Reinforcement of Low density polyethylene (LDPE) with CNT and Ultra high molecular weight Polyethylene (UHMWPE)- A systematic approach to enhance strength, modulus and toughness", US-Japan Conference on Composite Materials, June 6-7, 2008, Tokyo, Japan.
18. H. Mahfuz, **F. Powell**, R. Granata, M. Hosur and **M.R. Khan**, "Coating of Carbon Fiber with Polyhedral Oligomeric Silsesquioxane (POSS) to Enhance Mechanical Properties and Durability of Carbon/Vinyl Ester Composites", Materials 2011, 4, 1619-1631; doi:10.3390/ma4091619.
19. **F. Powell**, "Enhancing Mechanical and Hygrothermal Properties of Carbon/Vinyl Ester Composites Using POSS", ASME 2011 International Mechanical Engineering Congress & Exposition, Denver, CO, November 11-17, 2011.
20. H. Mahfuz, **F. Powell**, R. Granata, M. Hosur, "The Effects of POSS on the Interlaminar Shear Strength of Marine Composites under Various Environmental Conditions", NSTI- Nanotech 2010, June 21-25, 2010, Anaheim, CA.
21. H. Mahfuz, **F. Powell**, R. Granata, and M. Hosur,, "Treatment of Carbon Fibers with POSS and Enhancement in Mechanical Properties of Composites", SAMPE 2010, Seattle, Washington, 17-20 May, 2010
22. **Pundir, B.** and Dhanak, M. Surface pressure fluctuations due to an impinging supersonic under-expanded jet. AIAA paper no. 2010-0107. 2010.
23. **F. Lakitosh** and P. Ananthakrishnan, "Linear and nonlinear hydro-elasticity analysis of a twin hull wet-deck plate under wave and slamming forces," in Proceedings of IEEE Oceans Conference, Seattle (2010)
24. **F. Lakitosh** and P. Ananthakrishnan, "Analysis of ship hull plate vibrations induced by wave and slamming loads," Proceeding of the 31st International Conference on Ocean, Offshore and Arctic Engineering, Rio de Janeiro, Brazil (2012).

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