2009
Research and Creative Activity
Phillip M. Drayer Department of Electrical Engineering
Lamar University

Harley R. Myler, Ph.D., P.E., Professor & Chair
William B. and Mary G. Mitchell Endowed Chair

Wendell Bean, Ph.D., P.E., Professor
G. N. Reddy, Ph.D., Associate Professor
Ruhai Wang, Ph.D., Associate Professor
Selahattin Sayil, Ph.D., Associate Professor
Gleb Tcheslavski, Ph.D., Assistant Professor
Cristian Bahrim, Ph.D., Associate Professor
(joint appointment with Physics)
This report is published yearly by the Lamar University Phillip M. Drayer Department of Electrical Engineering to highlight the research and creative accomplishments of the faculty and students of the department. Listings are in rank order with faculty names in bold and student names underscored. For graduate committees, the advisor is listed first.

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Publications


Doctor of Engineering Dissertations Published

Wei-Tai Hsu, A Dynamic Facial Recognition System for Tracking Individuals in an Enclosed Domain, Drs. Myler, Bahrim, Tcheslavski and Wang

MSEE Theses Published


P. Parikh, Performance of Interplanetary Overlay Networks (ION) over Cislunar Links”, Drs. Wang, Bean, and Lin


S. D. Choure, Comparison of Delay Tolerant Networking (DTN) Protocols Implementations for Cislunar Communications”, Drs. Wang, Bean, and Reddy
MSEE Theses Published (cont.)

B. Modi, Experimental Investigation of Hybrid of Delay Tolerant Networking (DTN) Protocols in Interplanetary Internet”, Drs. Wang, Bean, and Sayil

Presentations

Myler, H. R., "ABET," Southwest Electrical and Computer Engineering Department Heads (SWECEDHA) fall meeting, hosted by Texas Tech in Dallas, October 23-24 2009.


Wang, R., “Acknowledgement (ACK) pace for maximum throughput over asymmetric space-Internet links,” University of Houston, Department of Electrical and Computer Engineering, Houston, Texas, Sept. 9. 2009 (invited).

Wang, R., “Optimal acknowledgement for best throughput performance over asymmetric space communication links,” Soochow University, School of Electronics and Information Engineering, Suzhou, Jiangsu Province, P. R. China, Dec. 25, 2009 (invited).

Bahrim C., Khadilkar V., Matsukuma H., and Hasuo M., “Alignment relaxation of Ne* (2p_i [J=1]) atoms in He-Ne* glow discharges”, XXVI International Conference on Photonics, Electronic and Atomic Collisions, hosted by the Michigan State University (August 2009).

Bahrim C., Experimental-based learning – an effective method for teaching physics for science and engineering majors, 6th Annual Education Research Conference at Lamar University, called “Education Today – Trends and Research”.

Lanning R., Toutloff J., Lee Ch., and Bahrim C., “Interference and diffraction of light and matter waves” at the 2009 Sigma Xi International Conference for Undergraduate Research, Houston, TX (November 2009).
Research Funding

Myler, H. R., Hosting of Dr. Alberto Ramirez-Orquin, University of Puerto Rico, Mayagüez, on the Entergy funding Power Grid Defense Project, Summer 2009, $30,000.


Bahrim, C. (Co-PI) with Peggy Doerschuk P., Jennifer Daniel, Christopher Martin, and Joe Kruger, on the NSF grant entitled “STudents Advancing through Involvement in Research Student Talent Expansion Program (STAIRSTEP)” of $800,534 funded. This grant started in January 1, 2009 and will end in December 31, 2012.

Honors and Awards

Wang, R. appointed as a Chaired Professor in Electronics and Information Engineering by Soochow University, Suzhou, China.

IEEE Student Papers

Justin Walters, Supercapacitor Development and Applications in Modern Technology, IEEE Region 5 2nd Place, East Area 1st Place, Beaumont Section 1st Place.

Langston Fults, tGuitar, IEEE Region 5 presenter, East Area 2nd Place, Beaumont Section 2nd Place.