

Engineering Technology Scholarly Activity 2010-12

Anaya, Leticia – Senior Lecturer

2012	Anaya, L., Evangelopoulos, N. (2012) "Classification Of Customer Complaints Using The Dirichlet Allocation Method" , Decision Science Institute 43rd Annual Meeting, San Francisco, California, November 17-20, 2012. (Distinguished Track MS/OR/Statistic Paper in 2012 Decision Science Conference out of 91 papers submitted from all over the world.)
2012	Analysis of Mechanical Engineering Technology Senior Projects Anaya, L., Foster, P., and Evangelopoulos, N. 2012 Annual Gulf Southwest Conference of the American Society for Engineering Education, University of Texas at El Paso, April 4-6, 2012
2011	"Comparing Latent Dirichlet Allocation and Latent Semantic Analysis as Classifiers," Ph.D. Dissertation Anaya, Leticia, University of North Texas
2011	"Communicating Customer Complaints in a Service Setting," Anaya, L., Evangelopoulos N. Decision Science Institute 42nd Annual Meeting, November 19-22.
2010	AC 2010-2137: Open-Book Closed Book Testing: An Experimental Comparison," Anaya, L, Evangelopoulos, N., and Lawani, U. 2010 ASEE Annual Conference and Exposition

Barbieri, Enrique – Professor & Chair

2012	Modeling, Simulation, and Control of Heat Integrated Distillation Columns: A Case Study F. Manzo, V. Tzouanas, and E. Barbieri. <i>Proceedings of the ASEE Annual Conference and Exposition, San Antonio, TX, June 2012</i>
2012	MS in Engineering Technology: Examples from Control Systems E. Barbieri and V. Tzouanas. <i>Proceedings of the ASEE Annual Conference and Exposition, San Antonio, TX, June 2012</i>
2012	On Engineering Technology Education: BS to PhD E. Barbieri, V. Vaidyanathan, and O. Petersen. <i>Journal of Engineering Technology, Fall 2012, pp.20-28</i>
2011	Evaluation Results of an E and ET Education Forum M. A. Ramos, L. Chapman, M. Cannady, and E. Barbieri. <i>Journal of Engineering Technology, Fall 2011</i>
2011	On Optimal Defibrillating Pulse Synthesis E. Barbieri, J. F. Eberth, and F. Attarzadeh. <i>Proceedings of the American Control Conference, June 2011, San Francisco, CA, pp.4781-4786</i>
2010	On B.S.E and B.S.ET for the Engineering Profession E. Barbieri, F. Attarzadeh, R. Pascali, W. Shireen, and W. Fitzgibbon. <i>Journal of Engineering Technology (Invited Paper), Spring 2010, pp.42-46</i>
2010	Enhancing the Undergraduate Research Experience in a Senior Design Context F. Attarzadeh, E. Barbieri, and M. Ramos. <i>AC 2010-2185, Proceedings of the ASEE Annual Conference and Exposition, Louisville, KY, 2010</i>

External Funding for 2010, 2011, 2012:

2012-2012	Inventaciones de la Inventiva: Employing KUHF-s -Engines of Our Ingenuity- to Increase Engineering Awareness and Education Opportunities in the Hispanic Community	United Engineering Foundation	92,000
2009-2012	Transformational Paradigm for the Engineering Profession (TPEP)	Department of Ed. (FIPSE)	149,000
2011-2011	Inventaciones de Nuestra Inventiva-: Employing KUHF-s -Engines of Our Ingenuity- to Increase Engineering Awareness and Education Opportunities in the Hispanic Community	United Engineering Foundation	90,500

Engineering Technology Scholarly Activity 2010-12

2009-2010	CORE: Coordination Of Robotics Education	NASA - JSC	28,000
2007-2010	Center for Technology Literacy: An Upward Mobility Strategy for Economic Growth	Department of Commerce, Econ. Dev. Adm.	293,550 (plus 295,000 match)

Bostanci, Huseyin – Assistant Professor

2012	<i>Thermal Management of Power Inverter Modules at High Fluxes via Two-Phase Spray Cooling</i> Bostanci, H., Van Ee, D., Saarloos, B.A, Rini, D.P., Chow, L.C <i>IEEE Transactions on Components, Packaging and Manufacturing Technology, vol. 2 (9), pp. 1480-1485</i>
2012	<i>High Heat Flux Spray Cooling with Ammonia: Investigation of Enhanced Surfaces for CHF</i> Bostanci, H., Rini, D.P., Kizito, J.P., Singh, V., Seal, S., Chow, L.C. <i>International Journal of Heat and Mass Transfer, vol. 55 (13), pp. 3849-3856</i>
2012	<i>A 277W Cryogenic Ceramic Yb:YAG Thin-Disk Laser</i> Vretenar, N., Newell, T.C., Carson, T., Peterson, P., Lucas, T., Latham, W. P., Bostanci, H., Lindauer, J.J., Saarloos, B.A., Rini, D.P. <i>Optical Engineering, vol. 51(1), pp. 014201-</i>
2011	<i>Pool Boiling Critical Heat Flux in Dielectric and Nano Fluids</i> Arik, M., Kosar, A., Bostanci, H., Bar-Cohen, A. <i>Advances in Heat Transfer Vol. 43, Elsevier</i>
2011	<i>Jet Impingement and Spray Cooling Using Slurry of Nanoencapsulated Phase Change Materials</i> Wu, W., Bostanci, H., Chow, L.C., Ding, J.S., Hong, Y., Su, M., Kizito, J.P., Gschwender, L., and Snyder, E. <i>International Journal of Heat and Mass Transfer, vol. 54, pp. 2715-2723</i>
2011	<i>Evaluation of Compact and Effective Air-cooled Carbon Foam Heat Sink</i> Wu, W., Du, J.H., Lin, Y.R., Chow, L.C., Bostanci, H., Saarloos, B.A, Rini, D.P <i>ASME Journal of Heat Transfer, vol.133, pp. 054504-</i>
2011	<i>Cryogenic Yb:YAG Thin-Disk Laser</i> Vretenar, N., Carson, T., Lucas, T., Newell, T.C., Latham, W. P., Peterson, P., Bostanci, H., Lindauer, J.J., Saarloos, B.A., Rini, D.P. <i>Proc. SPIE 8187, 818706, Prague, Czech Republic</i>
2011	<i>Jet Impingement Heat Transfer with Air-borne Nanoencapsulated Phase Change Materials</i> Wu, W., Bostanci, H., Chow, L.C., Hong, Y., Su, M., and Kizito, J.P. <i>Proc. MRS Spring Meeting, San Francisco, CA, April 25-29, 2011</i>
2010	<i>Nucleate Boiling Heat Transfer Enhancement for Water and FC-72 on Titanium Oxide and Silicon Oxide Surfaces</i> Wu, W., Bostanci, H., Chow, L.C., Hong, Y., Su, M., Kizito, J.P. <i>International Journal of Heat and Mass Transfer, vol. 53, pp. 1773-1777</i>

Boubekri, Nouredine – Professor

2011	<i>"An Investigation in Drilling 1020 Steel Using Minimum Quantity Lubrication";</i> <i>International Journal of Applied Science and Technology; Vol1, No5, 2011</i> N.Boubekri Center for promoting Ideas, USA
2010	<i>"Effects of Minimum Quantity Lubrication in Drilling 1018 Steel"</i> BOUBEKRI, N, Vasim Shaikh, <i>Journal of Manufacturing technology Research; Vol2/1, 2010</i>
2010	BOUBEKRI, N., "Micro lubrication in Machining: Technology Review and safety -IIE Annual Conference and Expo 2010, June 5- 9, 2010 ;Mexico
2010	BOUBEKRI, N, Vasim Shaikh, Phillip Foster, "A Technology Enabler for Green Machining: Minimum Quantity Lubrication (MQL)", Journal of manufacturing Technology Management, Vol 21, No 5; 2010.

Engineering Technology Scholarly Activity 2010-12

Davis, Jerome – Lecturer

External Funding for 2010, 2011, 2012:

2009-2012	UNT-Luminant Funding for the BSET - Nuclear ET	Luminant	185,000/yr
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Foster, Phillip – Associate Professor

2012	Foster, P.R. "Evolution of the Stirling Cycle: Emphasis on Reliability, Durability, and Long-term Unattended Operation." 2012 American Society for Engineering Education Annual Conference and Exposition at the San Antonio Convention Center, San Antonio, TX 6/10/12 through 6/13/12.
2012	Anaya, L., Foster, P.R., and Evangelopoulos, N. "Analysis of Mechanical Engineering Technology Senior Projects." 2012 Annual Meeting of the Gulf-Southwest Section of the American Society for Engineering Education, Tomas Rivera Conference Center, University of Texas at El Paso, El Paso, TX 4/4/12 through 4/6/12.
2011	Foster, P.R. "Structuring the Capstone Course Sequence to Demonstrate Unquestionable Achievement of All ABET and Lead Technical Society Program Outcomes." 2011 Annual Meeting of the Gulf-Southwest Section of the American Society for Engineering Education at the Weston Oaks-Galleria, Houston, TX 3/9/11 through 3/11/11.
2011	Foster, P.R. "Innovative Rotary Displacer Stirling Engine: Sustainable Power Generation for Private and Fleet Vehicle Applications." <i>Journal of Technology Studies</i> , 37, (2), 35-47, (2011).
2010	Foster, P.R. "Effective Continuous Quality Improvement Through Structured Cooperation Between the Industrial Advisory Board and Faculty." 2010 Annual Meeting of the Gulf-Southwest Section of the American Society for Engineering Education at McNeese State University, Lake Charles, LA 3/24/10 through 3/26/10.
2010	BOUBEKRI, N, Vasim Shaikh, Phillip Foster, "A Technology Enabler for Green Machining: Minimum Quantity Lubrication (MQL)", <i>Journal of manufacturing Technology Management</i> , Vol 21, No 5; 2010.

Huang, Zhenhua – Assistant Professor

2011	Monotonic and Cyclic Pushover Tests of Wood Beam-Column Connection: Traditional Chinese Tenon Joint vs Typical and Simplified US connections, Huang, Z. <i>Structural Engineers</i>
2009	Effect of Hysteresis Type on Drift Limit for Global Collapse of Moment Frame Structures for Seismic Loads Huang, Z., and Foutch, D <i>Journal of Earthquake Engineering</i>

Kougianos, Elias – Associate Professor

2012	"Polynomial-Metamodel Assisted Fast Power Optimization of Nano-CMOS PLL Components", in proceedings of the Forum on specification and Design Languages (FDL) 2012, pp. 233-238, 2012 S. P. Mohanty, E. Kougianos, O. Garitselov, and J. M. Molina
2012	A Comparative Study of Metamodels for Fast and Accurate Simulation of Nano-CMOS Circuits O. Garitselov, S. P. Mohanty, and E. Kougianos <i>IEEE Transactions on Semiconductor Manufacturing</i> , Vol. 25, No. 1, February 2012, pp. 317-328
2012	Kriging-Assisted Ultra-Fast Simulated-Annealing Optimization of a Clamped Bitline Sense Amplifier O. Okobiah, S. P. Mohanty, E. Kougianos and O. Garitselov <i>25th IEEE International Conference on VLSI Design (VLSID)</i> , pp. 310-315, 2012
2012	Fast-Accurate Non-Polynomial Metamodeling for nano-CMOS PLL Design Optimization O. Garitselov, S. P. Mohanty, and E. Kougianos <i>25th IEEE International Conference on VLSI Design (VLSID)</i> , pp. 316-321
2012	Ordinary Kriging Metamodel-Assisted Ant Colony Algorithm for Fast Analog Design Optimization

Engineering Technology Scholarly Activity 2010-12

	O. Okobiah, S. P. Mohanty, and E. Kougiianos <i>13th IEEE International Symposium on Quality Electronic Design (ISQED)</i> , pp. 458-463, 2012
2012	Metamodel-Assisted Ultra-Fast Memetic Optimization of a PLL for WiMax and MMDS Applications O. Garitselov, S. P. Mohanty, and E. Kougiianos <i>13th IEEE International Symposium on Quality Electronic Design (ISQED)</i> , pp. 580-585, 2012
2012	Statistical DOE-ILP Based Power-Performance-Process (P3) Optimization of Nano-CMOS SRAM S. P. Mohanty, J. Sing, E. Kougiianos, and D. K. Pradhan <i>VLSI Integration Jnl. (Elsevier)</i> , Vol. 45, No. 1, January 2012, p.33-45.
2012	"Verilog-AMS-PAM: Verilog-AMS integrated with Parasitic-Aware Metamodels for Fast Process Variation Resilient Design on Nao-CMOS PLL" , in proceedings of the 21 st ACM/IEEE Great Lakes Symposium on VLSI (GLSVLSI) 2012, pp. 351-356, 2012. G. Zheng, S. P. Mohanty, E. Kougiianos and O. Garitselov
2012	"Particle Swarm Optimization over Non-Polynomial Metamodels for Fast Process Variation Resilient Design of Nano-CMOS PLL" , in proceedings of the 21 st ACM/IEEE Great Lakes Symposium on VLSI (GLSVLSI) 2012, pp. 255-258, 2012. O. Garitselov, S. P. Mohanty, E. Kougiianos and G. Zheng
2012	"Metamodel-Assisted Fast and Accurate Optimization of an OP-AMP for Biomedical Applications" , in proceedings of the 11 th IEEE Computer Society Annual Symposium on VLSI (ISVLSI) 2012, pp. 273-278, 2012. G. Zheng, S. P. Mohanty, E. Kougiianos and O. Garitselov
2012	"Geostatistical-Inspired Metamodeling and Optimization of Nano-CMOS Circuits" , in proceedings of the 11 th IEEE Computer Society Annual Symposium on VLSI (ISVLSI) 2012, pp. 326-331, 2012. O. Okobiah, S. P. Mohanty, and E. Kougiianos
2012	"Stochastic Gradient Descent Optimization for Low Power Nanoscale CMOS Thermal Sensor Design" , in proceedings of the 11 th IEEE Computer Society Annual Symposium on VLSI (ISVLSI) 2012, pp. 285-290, 2012. O. Okobiah, S. P. Mohanty, E. Kougiianos, O. Garitselov, and G. Zheng
2012	"Accurate Polynomial Metamodeling-Based Ultra-Fast Bee Colony Optimization of a Nano-CMOS PLL" , Special Issue on Power, Parasitics, and Process-Variation (P3) Awareness in Mixed-Signal Design, <i>ASP Journal of Low Power Electronics</i> , Vol. 8, No. 3, June 2012, pp. 451-467. O. Garitselov, S. P. Mohanty, and E. Kougiianos
2012	"DOE-ILP Assisted Conjugate-Gradient Optimization of High-κ/Metal Gate Nano-CMOS SRAM" , <i>IET Computers & Digital Techniques (CDT)</i> , Vol. 6, No. 4, July 2012, pp. 240-248. S. P. Mohanty and E. Kougiianos
2012	"Optimal Design of a Dual-Oxide Nano-CMOS Universal Level Converter for Multi-V_{dd} SoCs" , <i>Analog Integrated Circuits and Signal Processing Journal (Springer)</i> , Vol. 72, No. 2, August 2012, pp. 451-467. S. P. Mohanty, E. Kougiianos, and O. Okobiah
2011	Fast Optimization of Nano-CMOS Mixed-Signal Circuits Through Accurate Metamodeling O. Garitselov, S. P. Mohanty, and E. Kougiianos <i>12th IEEE International Symposium on Quality Electronic Design (ISQED) 2011</i> , pp. 405-410, 2011
2011	Towards Robust Nano-CMOS Sense Amplifier Design: A Dual-Threshold versus Dual-Oxide Perspective O. Okobiah, S. P. Mohanty, and E. Kougiianos <i>21st ACM/IEEE Great Lakes Symposium on VLSI (GLSVLSI) 2011</i> , pp. 145-450
2011	Maskless Deposition of ZnO Films U. Choppali, E. Kougiianos, S. P. Mohanty and B. Gorman <i>Solar Energy Materials and Solar Cells (Elsevier)</i> , Vol. 95, No. 3, March 2011, pp. 870-876.
2011	Real-Time Perceptual Watermarking Architectures for Video Broadcasting S. P. Mohanty and E. Kougiianos <i>Journal of Systems and Software (Elsevier)</i> , Vol. 84, No. 5, may 2011, pp. 724-738
2010	Nano-CMOS Mixed-Signal Circuit Metamodeling Techniques: A Comparative Study O. Garitselov, S. P. Mohanty, and E. Kougiianos <i>IEEE International Symposium on Electronic System Design (ISED) 2010</i> , pp. 191-196, 2010
2010	Honeycomb Model Based Skin Color Detector for Face Detection Y. -T. Pai, L. -T. Lee, S. -J. Ruan, Y. -H. Chen, S. P. Mohanty, and E. Kougiianos <i>InterScience International Journal of Computer Applications in Technology (IJCAT) Vol. 39, Nos. 1/2/3, 2010</i> , pp. 93--100.

Engineering Technology Scholarly Activity 2010-12

2010	A P4VT (Power-Performance-Process-Parasitic-Voltage-Temperature) Aware Dual-V_{th} Nano-CMOS VCO S. P. Mohanty, D. Ghai, and E. Kougianos <i>Proceedings of the 23rd IEEE International Conference on VLSI Design (ICVD) 2010</i>
2010	"A Comparative Study on Gate Leakage and Performance of High-κ Nano-CMOS Logic Gates" E. Kougianos and S. P. Mohanty <i>International Journal of Electronics (Taylor & Francis), Vol. 97, No. 9, September 2010, pp. 985-1005.</i>
2010	"A Variability Tolerant System-on-Chip Ready Nano-CMOS Analog-to-Digital Converter" D. V. Ghai, S. P. Mohanty, and E. Kougianos <i>International Journal of Electronics (Taylor & Francis) Vol. 97, No. 4, April 2010, pp. 421-440.</i>
2010	Design of a Reconfigurable Embedded Data Cache R. S. Bani, S. P. Mohanty, E. Kougianos, and G. Thakral <i>IEEE International Symposium on Electronic System Design (ISED) 2010, pp. 163-168</i>
2010	Polymeric Precursor Derived Nanocrystalline ZnO Thin Films Using EDTA as Chelating Agent U. Choppali, E. Kougianos, S. P. Mohanty and B. Gorman <i>Solar Energy Materials and Solar Cells (Elsevier), Vol. 94, No. 12, December 2010, pp. 2351-2357</i>
2010	DOE-ILP Based Simultaneous Power and Read Stability Optimization in Nano-CMOS SRAM G. Thakral, S. P. Mohanty, D. K. Pradhan, and E. Kougianos <i>Journal of Low Power Electronics, Vol. 6, No. 3, October 2010, pp. 1-11</i>
2010	Digital Nano-CMOS VLSI Design Courses in Electrical and Computer Engineering Through Open-Source/Free Tools E. Kougianos, S. P. Mohanty and P. Patra <i>Proceedings of the 1st IEEE International Symposium on Electronic System Design (ISED), pp. 265--270, 2010</i>

External Funding for 2010, 2011, 2012:

2010-2013	Introduction of Nanoelectronics Courses in Undergraduate Computer Science and Computer Engineering Curricula	NSF	180,000
2009-2012	Fast PVT Tolerant Physical Design of RF IC Components	SRC/TxACE	105,000
2009-2012	Infrastructure Acquisition for Statistical Power, Leakage, and Timing Modeling Towards Realization of Robust Complex Nanoelectronic	NSF	250,000
2007-2010	A Comprehensive Methodology for Early Power-Performance Estimation of Nano-CMOS Digital Systems	NSF	200,000

Mirshams, Reza - Professor

2011	Mechanical Properties Measurement of Sand Grains by Nanoindentation F. Wang, B. Fu, R.A. Mirshams, W. Cooper, R. Komanduri, H. Lu <i>CONFERENCE PROCEEDINGS OF THE SOCIETY FOR EXPERIMENTAL MECHANICS SERIES Volume 15, 2011, DOI: 10.1007/978-1-4419-9794-4</i>
2011	Intraspecimen Nanomechanical Properties Across the Femoral Cortex Parallel Compositional Measures Mangesh A. Nar, Nandika D'Souza ¹ , Reza Mirshams, and Victor Kosmopoulos <i>SAMPE Tech 2011 Proceedings, Fort Worth, Texas, October 2011</i>

Nasrazadani, Seifollah – Professor & Associate Chair

2012	Failure Analysis of Al 356-T6 Clutch Lever, Journal of Failure Analysis and Prevention, Vol. 12, pp. 24-29 S. Nasrazadani and L. Reyes <i>Springer</i>
2011	Practical Applications of FTIR to Characterize Paving Materials Seifollah Nasrazadani, David Mielke, Tyler Springfield, and Naresh Ramasamy <i>Texas Department of Transportation and Federal Highway Administration</i>

Engineering Technology Scholarly Activity 2010-12

2011	Applications of Fourier Transform Infrared Spectrophotometry (FTIR) in Characterization of Construction Materials Proceedings of GEO-FRONTIERS 2011, March 13-16, 2011, Dallas Texas Seifollah Nasrazadani <i>American Society of Civil Engineers</i>
2011	Comparison of DBU, NH₃, DMA, ETA, and Morpholine Interactions with Ferrous Chloride Solution and Carbon Steel Surfaces Seifollah Nasrazadani, Ansel Reid, Jim Stevens, Robert Theimer, Billy Fellers <i>15th International Conference on Environmental Degradation of Materials in Nuclear Power Systems-Water Reactors, sponsored by The Minerals, Metals & Materials Society, Colorado Springs Colorado</i>
2011	New Advanced Amine for Secondary Systems in Pressurized Water Reactor Plants, Power Plant Chemistry , Vol. 13, No. 4, pp. 216-224. Jim Stevens and Seifollah Nasrazadani <i>Waesseri GmbH</i>
2011	Corrosion and Flame Retardant Polymer Coatings for Oilfield Applications Offshore Technology Conference , May 2-5, 2011, Houston Texas Nandika Anne D'Souza, Seifollah Nasrazadani, Parag Ganpole <i>Offshore Technology Conference</i>
2010	"A review of biodeterioration of concrete structures", Proceedings of International corrosion and exhibition conference, CORROSION 2010 NACE, March 14-18 San Antonio Texas USA. Seifollah Nasrazadani and Elias Sudoi <i>National Association of Corrosion Engineers</i>
2010	Corrosion Resistance and In-Vitro Response of Laser-Deposited Ti-Nb-Zr-Ta Alloys for Orthopedic Implant Applications, Journal of Biomedical materials Research: Part A Vol. 94 A Issue 4, pp. 1251-1256. Samuel, S. Nasrazadani, S., El Bounani, M., Ngyugen, K. & Banerjee, R. <i>Wiley Periodical Inc</i>
2010	Evaluation of DBU as a Corrosion Inhibitor for a Pressurized Water Reactor, Materials Performance Vol. 49, No. 9, pp. 49-51. Haritha Namudri and Seifollah Nasrazadani, <i>National association of Corrosion Engineers</i>
2010	New Advanced Amine for Secondary Systems in Pressurized Water Reactor Plants, International Conference on water Chemistry of Nuclear Reactor systems, October 3-7 2010, Quebec City, Canada Jim Stevens and Seifollah Nasrazadani
2010	An Investigation of Wire Breaks Created During Copper Wire-Drawing Manufacturing, Materials Science & Technology , October 17-21 2010 Houston Texas S. Nasrazadani, E. Sudoi, and G. Silva
2010	Under Insulation Corrosion of Piping Systems, Materials Science & Technology (MS&T 2010) , October 17-21 2010, Houston Texas S. Nasrazadani

External Funding for 2010, 2011, 2012:

2009-2012	Characterization and Mediation of Microbial Deterioration of Concrete Infrastructure	Oklahoma Transportation Center	\$300,000 (\$4500 UNT)
2010-2010	FIB/TEM Analysis of Tubing Samples	Dominion Engineering	\$5600

Vaidyanathan, Vijay – Associate Professor & Associate Dean

2011	Electrical resistivity as a measure of change of state in substrates: Design, development and validation of an automated system Dong Le, Vijay Vaidyanathan, Shailesh Vidhate, Jaycee Chung, Nandika D'Souza <i>Measurement, Volume 44, Issue 1, Jan 2011, Pages 159-163</i>
2011	Monitoring Plastic Biodegradation With LabVIEW and NI CompactDAQ Mark Pickens, Koffi Dagnon, Vijay vaidyanathan, Nandika D'Souza <i>National Instruments, Case Studies</i>
2010	Resistive-conductive transitions in the time-dependent piezoresponse of PVDF-MWCNT nanocomposites Shailesh Vidhate, Jaycee Chung, Vijay Vaidyanathan and Nandika Anne D'Souza <i>Polymer Journal advance online publication 26 May 2010; doi: 10.1038/pj.2010.44</i>
2010	Behavior Of Poly (Hydroxybutyrate Valerate)/Multi-Walled Carbon Nanotubes Conductive Composites Shailesh Vidhate, Jaycee Chung, Vijay Vaidyanathan, Nandika Anne D'Souza <i>ANTEC 2010, Orlando</i>
2010	Investigation of factors affecting surface Plasmon efficiency Rekha Vemuri, Vijay Vaidyanathan, Arup Neogi <i>IJERI, VOL2, NO 1, pp 77-86, SPRING/SUMMER 2010</i>

Engineering Technology Scholarly Activity 2010-12

Wang, Shuping – Associate Professor

2012	“Thermal stability solutions for optical current sensor using thermoelectric method,” S. Wang, A. Alahmari, and X. Yang, Proc. SPIE, vol. 8561, (2012)
2011	“Fabrication and Characterization of PDMS Thin Film,” S. Wang, A. Kallur, and A. Goshu, Proc. SPIE, V. 7935, 79350M1–79350M6, 2011
2011	“Fabrication and Characterization of PDMS Thin Film,” .S. Wang, A. Kallur, and A. Goshu Proc. of SPIE vol. 7935, 7935-21
2010	“Enhance research opportunities for students of Engineering Technology through partnership with industry,” S. Wang, Conference for Industry and Education Collaboration (CIEC), Palm Springs, CA, February 3-5, (2010)

Yu, Cheng – Associate Professor

2012	Cold-Formed Steel Flexural Member with Edge Stiffened Holes: Behavior, Optimization, and Design Yu, C. <i>Journal of Constructional Steel Research</i> , doi:10.1016/j.jcsr.2011.09.008
2012	Simplified Method for Critical Elastic Distortional Buckling of Cold-Formed Steel C and Z Sections Law, K., Zhao, Y., Yan, W., Yu, C. <i>Advances in Structural Engineering</i> , Vol 15, No. 12, (2012), 2013-2019.
2011	Detailing Recommendations for 1.83-m Wide Cold-Formed Steel Shear Walls with Steel Sheathing Yu, C., Chen, Y. <i>Journal of Constructional Steel Research</i> , 67 (2011) 93-101
2011	Determining Distortional Buckling Strength of Cold-Formed Steel Flexural C and Z Sections Using Effective Width Method Thin-Walled Structures Yu, C., Yan, W. <i>Thin-Walled Structures</i> , Vol 49, Issue 2, 233-238
2011	Bearing Strength of Cold-Formed Steel Bolted Connections Using Oversized Holes without Washers Yu, C., Xu, K., Sheerah, I. <i>Journal of Structural Engineering</i> , Vol. 137, Issue 1
2010	Shear Resistance of Cold-Formed Steel Framed Shear Walls with 0.686-mm, 0.762-mm, and 0.838-mm Steel Sheet Sheathing Yu, C. <i>Engineering Structures</i> , 32 (2010) 1522-1529
2010	Distortional Buckling Of Cold-Formed Steel Shear Wall Studs Under Uplift Force Yu, C. <i>Journal of Structural Engineering</i> , 136 (3) 317-323
2012	Experimental Investigation of Cold-Formed Steel Shear Walls Sheathed with Steel-Gypsum Composite Panels Yu, C., Chao, L. <i>Proceedings of the Annual Stability Conference, Structural Stability Research Council, Grapevine, TX, April 2012.</i>
2012	Selection of delivery system, contract type, and incentive/disincentive strategy for highway construction projects in the United States Kuo, C.-C., Johnson, J. L., and Yu, C. <i>Proceedings of the 6th International Conference on Operations and Supply Chain Management, July 14-18, Xi'an, China, 109-111.</i>
2012	Behavior and Strength of Cold-Formed Steel Framed Shear Walls Sheathed with Composite Panels Yu, C., Chao, Li <i>Proceedings of the 21st International Specialty Conference on Cold-Formed Steel Structures, St. Louis, MO, October 2012.</i>
2012	The 1st Student Competition on Cold-Formed Steel Design Yu, C., Moen, C. <i>Proceedings of the 21st International Specialty Conference on Cold-Formed Steel Structures, St. Louis, MO, October 2012.</i>
2012	Analytical Model for Cold-Formed Steel Framed Shear Wall with Steel Sheet Sheathing Yanagi, N., Yu, C. <i>Proceedings of the 21st International Specialty Conference on Cold-Formed Steel Structures, St. Louis, MO, October 2012.</i>
2011	Simplified Methods for Determining The Critical Elastic Buckling Load of Thin-Walled Cold-Formed Steel Sections Law, K., Zhao, Y., Yu, C., Yan, W. <i>Proceedings of the Annual Stability Conference, Structural Stability Research Council</i>

Engineering Technology Scholarly Activity 2010-12

2010	Experimental Investigation on 6 Feet Wide Cold-Formed Steel Framed Shear Walls with Steel Sheet Sheathing Yu, C., Chen, Y. <i>20th International Specialty Conference on Cold-Formed Steel Structures</i>
2010	Appropriate Adjustment Method for Experimental Results of Cold-Formed Steel Shear Walls Sheathed with Steel Sheets Yu, C. <i>Proceedings of the Annual Stability Conference, Structural Stability Research Council</i>
2010	Elastic Buckling of Thin-Walled Structural Components with Edge-Stiffened Holes Moen, C. D., Yu, C. <i>Proceedings of the 51st AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference</i>

External Funding for 2010, 2011, 2012:

2010-2015	CAREER: Comprehensive Research on Cold-Formed Steel Sheathed Shear Walls: Special Detailing, Design, and Innovation	National Science Foundation	400,010
2012-2013	Construction Department Grant	TEXO Foundation	5,000
2010-2012	18 testing projects on a variety of issues	NUCONSTEEL Commercial Corp.	58,359
2008-2010	Testing and Analysis of Cold-Formed Steel Connections with Bolts in Oversize Holes or Short Slots without Washers-Phase 2	American Iron and Steel Institute	40,943

Zhang, Haifeng – Assistant Professor

2012	“Experimental study of a frequency-adjustable piezoelectric bimorph energy harvester,” H. F. Zhang, P. H. Lee, J. A. Kosinski, <i>Ferroelectrics</i> , 437, 34 – 44, 2012
2011	Experimental study of thickness-shear vibration of AT-cut quartz resonators loaded with microparticles H. F. Zhang, P. H. Lee <i>IEEE Trans. Ultrason., Ferroelect., Freq. Contr.</i>
2011	Drive level dependence of doubly rotated langasite resonators with different configurations H. F. Zhang, Y. Xie, J. A. Turner, J. A. Kosinski <i>Proc. IEEE Int. Ultrason. Symp., 1-4, 2011.</i>
2011	Optimal cuts to extract the third-order elastic constants of langasite single crystals H. F. Zhang <i>IEEE Trans. Ultrason., Ferroelect., Freq. Contr.</i>
2011	Application of antenna in strain measurement Z. Salmani, Y. Xie, G. Zheng, H. F. Zhang, H. L. Zhang <i>Proc. IEEE Int. Workshop on Antenna Technology</i>
2010	Force-frequency effect of thickness mode langasite resonators H. F. Zhang, J. A. Turner, J. S. Yang and J. A. Kosinski <i>Ultrasonics</i> , 50, 479-490, 2010.
2010	Optimal cuts to extract the third-order elastic constants of langasite single crystals H. F. Zhang <i>Proceedings of IEEE International Frequency Control Symposium, 2010.</i>

External Funding for 2010, 2011, 2012:

2010-2013	Integrated analysis of piezoelectric resonators as components of electronic systems	Army Research Office	\$386,670
09/01/2011-09/01/2012	ACQUISITION OF EQUIPMENT FOR ADVANCED PIEZOELECTRIC DEVICES LABORATORY IN THE UNIVERSITY OF NORTH TEXAS	Army Research Office	\$128,716