

2014 ASEE Zone 1 Conference American Society for Engineering Education Student Paper Sessions

Friday	4-Apr	11:15am -12:30 pm			
	Session SFA-1	Engineering Education - I		Discovery Pavilion - Magnus Wahlstrom Library	
	Chair	Frank Kuchinski		frankkuchinski@gmail.com	Ongo Health
11:15	11:30	180	Ketul B Shah, Aritra Ghosh, Md Naim Hossain, Young Lee, <i>Texas A&M University-Kingsville</i>	Enhancing Engineering Educational Using Virtual Lab Technology	
11:30	11:45	201	Katherine Aho, Kavitha Chandra, Ed Roberts, <i>University of Massachusetts Lowell</i>	Introducing programming into the physics curriculum at Haverhill High School using the R language	
11:45	12:00	150	Carli D. Flynn, Cliff I. Davidson, Sharon Dotger, <i>Syracuse University</i>	Engineering Student Misconceptions about Rate and Accumulation Processes: Preliminary Evidence for the Development of the Rate and Accumulation Concept Inventory	
12:15	12:30	Closing Remarks - END OF SESSION			
Friday	4-Apr	11:15am -12:30 pm			
	Session SFA-2	Modeling and Simulation		500A - Magnus Wahlstrom Library	
	Chair	Dr. Kavitha Chandra		kavitha_chandra@uml.edu	University of Massachusetts-Lowell
11:15	11:30	197	Amanda Zielkowski, Melody Baglione, David Wootton, <i>The Cooper Union</i>	Determining System Time Constant Through Experimental and Analytical Techniques	
11:30	11:45	251	Chrisna Nguon, N. N. Nagadewate, Kavitha Chandra, C. Thompson, <i>University of Massachusetts Lowell</i>	Acoustic Scattered Field Computation	
11:45	12:00	257	Jenny Au, Ololade O Mudasiru, Kavitha Chandra, <i>University of Massachusetts Lowell</i>	Random Beam Patterns from Linear Arrays	
12:00	12:15	166	Daniel Gebremicheal, Paul Cotae, <i>The University of the District of Columbia</i>	On the probability of Error of Threshold Devices	
12:15	12:30	Closing Remarks - END OF SESSION			
Friday	4-Apr	11:15am -12:30 pm			
	Session SFA-3	Renewable Energy - I		500B - Magnus Wahlstrom Library	
	Chair	Dr. David McLaughlin		dmclaugh@engin.umass.edu	University of Massachusetts Amherst
11:15	11:30	100	Mojjue Kaikai, Erin D. Baker, <i>University of Massachusetts of Amherst</i>	Energy for Education	
11:30	11:45	125	Kondracki, Ryan; Collins, Courtney; Habbab, Khalid, Bijan Karimi, <i>University of New Heaven</i>	Solar Powered Charging Station	
11:45	12:00	136	Mohamed A. Ghalib, Yasser S. Abdalla, R. M. Mostafa, <i>Beni-Suef University</i>	Design and Implementation of a Pure Sine Wave Single Phase Inverter for Photovoltaic Applications	
12:00	12:15	183	Matthew Foley, Matthew Janiga, John Adams, Yan Varun Pande, Jayanta Paul, Manuel Curillo, Jani Macari Pallis, <i>University of Bridgeport</i>	Self Sustaining Solar Powered Cansat	
12:15	12:30	Closing Remarks - END OF SESSION			
Friday	4-Apr	11:15am -12:30 pm			
	Session SFA-4	Renewable Energy - II		500C - Magnus Wahlstrom Library	
	Chair	Dr. Hassan Bajwa		hbajwa@bridgeport.edu	University of Bridgeport
11:15	11:30	147	Matthew Foley, Matthew Janiga, John Adams, Yan Zhang, Leffi Cewe-Malloy, Aaron Sakulich, <i>Worcester</i>	Energy efficiency of Worcester Friends Meetinghouse	

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<i>Polytechnic Institute</i>				
11:30	11:45	156	Allen S. Guinoo, Joshua A. Stewart, Lin Lin, <i>University of Southern Maine</i>	Heat Collectors through Active Solar Energy
11:45	12:00	190	Jacob D. Bowen, Farshid Zabihian, <i>West Virginia Institute of Technology</i>	Geothermal Heating from Abandoned Coal Mines
12:00	12:15	203	Zack Dixon, Jon Ball, Farshid Zabihian, <i>West Virginia University Institute of Technology</i>	Experimentally Analyzing a Polymer Electrolyte Membrane Fuel Cell
12:15	12:30	Closing Remarks - END OF SESSION		
Friday	4-Apr	11:15am -12:30 pm		
	Session SFA-5	Robotics - I		
	Chair	Yakov Toporovsky		
			500D - Magnus Wahlstrom Library	
			ytoporov@bridgeport.edu University of Bridgeport	
11:15	11:30	110	Tamer Abukhalil, Madhav Patil, <i>University of Bridgeport</i>	UBSwarm: Design of a Software Environment to Deploy Multiple Decentralized Robots
11:30	11:45	129	Zachary Boorman, Richard Freitas, Kristie Kordana, Adam Stanley, <i>Roger Williams University</i>	The Design and Fabrication of an Upright Collapsible Transport System For Pushing Children
11:45	12:00	219	Carlos A. Munoz, <i>University of Bridgeport</i>	Object Tracking Using Autonomous Quad Copter
12:00	12:15	138	Abdulrahman Alkhodairy, Sarosh Patel, <i>University of Bridgeport</i>	Robot Artist- Automated Picture Portrait
12:15	12:30	Closing Remarks - END OF SESSION		
Friday	4-Apr	11:15am -12:30 pm		
	Session SFA-6	Civil Engineering		
	Chair	Dr. Francis J. Hopcroft		
			hopcroff@wit.edu Wentworth Institute of Technology	
11:15	11:30	95	Zhan Su, Qian Wang, Huanzi Wang, <i>Manhattan College</i>	Structural Performance of Highway Bridges under Given Foundation Settlements
11:30	11:45	163	Priscilla Tengdin, Kayla Santello, Robert Henry, <i>University of New Hampshire</i>	Deciphering Drawings: A Student Guide to Construction Documents
11:45	12:00	151	Osama R. Abd El-Aziz, Oliver Cristian Saavedra Valeriano, <i>Alexandria University</i>	Flood Forecasting in Blue Nile Basin Using a Process-based Distributed Hydrological Model and Satellite Derived Precipitation Product
12:00	12:15	200	Kaylah Bovard, Brittany Doran, Farshid Zabihian, <i>West Virginia University Institute of Technology</i>	Feasibility of Implementing a Hydro Electric Power Plant in an Existing Dam
12:15	12:30	Closing Remarks - END OF SESSION		
Friday	4-Apr	11:15am -12:30 pm		
	Session SFA-7	Thermodynamics and Fluid Analysis		
	Chair	Dr. Sunil Dehipawala		
			sdehipawala@qcc.cuny.edu The City University of New York	
11:15	11:30	202	Walter Engels, Farshid Zabihian, <i>West Virginia University Institute of Technology</i>	Principle and Preliminary Calculation of Ocean Thermal Energy Conversion
11:30	11:45	214	Abubaker E.M Elbalsohi, Junling Hu, Ruoxu Jia, <i>University of Bridgeport</i>	Simulation of Turbulent Flow in an Asymmetric Air Diffuser
11:45	12:00	186	Ruoxu Jia, Junling Hu, and Abubaker E.M Elbalsohi, <i>University of Bridgeport</i>	Analysis of a Counter Flow Parallel-plate Heat Exchanger
12:00	12:15	195	Andrew Brenner, Haylie Ballard, Kaleb Acree, Farshid Zabihian, <i>West Virginia University Institute of Technology</i>	Improving Compressors' Efficiency through Modernization

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12:15	12:30	Closing Remarks - END OF SESSION		
Friday	4-Apr	11:15am -12:30 pm		
	Session SFA-8	Technology Management - I	Team Meeting Room 6 - Magnus Wahlstrom Library	
	Chair	Dr. Syed Rizvi	ssr16@psu.edu	The Pennsylvania State University - Altoona
11:15	11:30	262	Naseem Khan Naseem Khan, Elif Kongar, <i>University of Bridgeport</i>	Innovation and Development of New Product for Customer Satisfaction, Applying on Smart Phone's Security
11:30	11:45	160	WANG Zhiguo, GONG Bengang, YANG Shanlin, <i>Anhui Polytechnic University</i>	Manufacturing System Coordinated optimization Model and Its Application
11:45	12:00	179	Reem Khalid Mahjoub, Christian Bach, <i>University of Bridgeport</i>	Knowledge Management
12:00	12:15	174	Hussain A. Alhassan, Christian Bach, <i>University of Bridgeport</i>	Network Security & Online Communication Improving Hospital Staff Performance
12:15	12:30	Closing Remarks - END OF SESSION		
Friday	4-Apr	11:15am -12:30 pm		
	Session SFA-9	Material Science and Biochemistry	153 – Carlson Hall	
	Chair	Dr. Tracie Ferreira	tferreira@umassd.edu	University of Massachusetts - Dartmouth
11:15	11:30	168	Yao Agoudavi, Nathan Cyrille, Luis Hernandez, Amber LaGuerre, Zhineng Li, Katherine Vides, Sunil Dehipawala, Andrew Nguyen, Alexei Kisselev and Tak Cheung, <i>CUNY Queensborough Community College</i>	Analysis of Synchrotron X-ray Based Absorption Data of Fe & Zn Atoms in Consumer Product Tissue Samples
11:30	11:45	89	Nicholas J Macedo, Tracie L Ferreira, <i>University of Massachusetts Dartmouth</i>	Maximizing Total RNA Yield from TRizol® Reagent Protocol: A Feasibility Study
11:45	12:00	137	Bi Yuying, Prabir Patra, <i>University of Bridgeport</i>	Computational Simulation and Analysis of the Transverse Isotropic Property of Glycosaminoglycan in Collagen
12:00	12:15	211	Yenny Rua, Kaitlin Maciejewski, Russell Muren, Shanon M. Reckinger, <i>Fairfield University</i>	Relationship between the pH of Sodium Hydroxide Solution and 3D Printed Support Resin Dissolution
12:15	12:30	Closing Remarks - END OF SESSION		
Friday	4-Apr	11:15am -12:30 pm		
	Session SFA-10	Computer Science and Engineering - I	252 – Carlson Hall	
	Chair	Dr. Carolyn Sher DeCusatis	csher-decusatis@citytech.cuny.edu New York City College of Technology	
11:15	11:30	217	Yuanyao Liu, Zhengping Wu, <i>University of Bridgeport</i>	Efficient Critical System Event Recognition and Prediction in Cloud Computing Systems
11:30	11:45	139	Peter J. Zeno, <i>University of Bridgeport</i>	Visualization Tool for GPGPU Programming
11:45	12:00	233	Daniel Katz, <i>University of Massachusetts Lowell</i>	Statistical Programming Education Through Physics Research
12:00	12:15	185	Mohamed Tayseer, Fouad Zoghieb, Ismail Alcheikh and Mohammad N.S. Awadallah <i>Petroleum Institute, Abu Dhabi, UAE</i>	Social Network: Academic and Social impact on college student
12:15	12:30	Closing Remarks - END OF SESSION		
Friday	4-Apr	11:15am -12:30 pm		
	Session SFA-11	Mechanical System Design - I	253 – Carlson Hall	

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	Chair	Ikeuchi Katsushi	ki@cvl.iis.u-tokyo.ac.jp	University of Tokyo
11:15	11:30	173	Graber, Kevin Knopf, Alexander Van Horn, Kristian, <i>Central Connecticut State University</i>	Gas Fired Furnace-Improvement Upon CCSU's Heat Treatment System
11:30	11:45	178	David Cain, Brian Layng, Kyle McNulty, Ryan O'Connor, Tomas Estrada, <i>Elizabethtown College</i>	Design of Autonomous, Line Following Pace Car for Athletic Training
11:45	12:00	198	Justin Rine, Gerardo Flores, Farshid Zabihian, West <i>Virginia University Institute of Technology</i>	Experimental Analysis of Downdraft Gasifier
12:00	12:15	220	Ruoxu Jia, Junling Hu, Xingguo Xiong, Linfeng Zhang, <i>University of Bridgeport</i>	Shape optimization design and material selection for a fitness equipment
12:15	12:30	Closing Remarks - END OF SESSION		
Friday	4-Apr	11:15am -12:30 pm		
	Session SFA-12	Biomedical Engineering	108 – Carlson Hall	
	Chair	Dr. Christopher J. Brigham	cbrigham@umassd.edu	University of Massachusetts - Dartmouth
11:15	11:30	128	Alessandro DiMarco, France Marquez, Wilson Tsz-Hon Kowk, ShuaiXiang Zhang, Sunil Dehipawala, Andrew Nguyen, Tak Cheung, <i>CUNY Queensborough Community College</i>	Analysis of Elongation Factor-Tu (EF-Tu) DNA sequences using free energy & Shannon entropy
11:30	11:45	221	Arthur Rozario, Justin Paruvaparampil, Keis Sultani, ShuaiXiang Zhang, Andres Mora, Catherine Carti, Brendan O'Brien, M.C. Damas, Wenli Guo, Andrew Nguyen, Vazgen Shekoyan, Sunil Dehipawala, Alexei Kisselev, Tak Cheung, <i>CUNY Queensborough Community College</i>	Measurement of Photon Diffusion with Mobile Phone Camera with Applications to mHealth Monitoring
11:45	12:00	237	Fei Mi, Zixun Tong, Xingguo Xiong, <i>University of Bridgeport</i>	Design and Simulation of an Electrostatically-Driven MEMS Micro- Mixer An Advanced Nelder Mead Simplex Method for Clustering of Gene Expression Data
12:00	12:15	107	Athul Jose, M Pandi, <i>Anna University, Chennai, India</i>	
12:15	12:30	Closing Remarks - END OF SESSION		
Student Paper Friday Afternoon Session (April 4, 2014)				
Friday	4-Apr	3:00pm - 4:15pm		
	Session SFB-1	Engineering Education - II	Discovery Pavilion - Magnus Wahlstrom Library	
	Chair	Chongsheng Wu	congwu@bridgeport.edu	University of Bridgeport
3:00	3:15	161	Nicholas S. Rosasco, Dane Brown, <i>Towson University, US Naval Academy</i>	Digital Freedom Fighting: An Interdisciplinary Science and Engineering Education Module
3:15	3:30	130	Jose Javier Montaner Mora, Luis Miguel Mora Gonzalez, <i>New Jersey Institute of Technology</i>	International Education
3:30	3:45	112	James Accuosti, <i>University of Bridgeport</i>	Factors Affecting Education Technology Success
3:45	4:00	207	A.M. Annan, C. M. McLain, M. E. Perham, D. N. Robear, and D. J. McLaughlin, <i>University of Massachusetts Amherst</i>	Incorporating a substantive hands-on experience into the Intro-to-EE course for non-majors
4:00	4:15	Closing Remarks - END OF SESSION		
Friday	4-Apr	3:00pm - 4:15pm		

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	Session SFB-2	Engineering Education - III	500A - Magnus Wahlstrom Library
	Chair	Dr. Sunil Dehipawala	sdehipawala@qcc.cuny.edu The City University of New York
3:00	3:15	181 Varun Pande, Jayanta Paul, Manuel Curillo, Jani Macari Pallis, <i>University of Bridgeport</i>	Dicosat-Research Satellite for a 5th grader
3:15	3:30	104 Fernanda Gobbi de Boer, Carla ten Caten, Istefani Carísio de Paula, <i>Federal University of Rio Grande do Sul</i>	Application of the Problem Based Learning method in the discipline 'statistics for engineering'
3:30	3:45	117 Moussa Souare, Vira Chankong, Christos Papachristou, <i>Case Western Reserve University</i>	Undergraduate Notes on Convolution and Integration by Parts
3:45	4:00	122 Mohammadjafar Esmaeili, Ali Eydgahi, <i>Eastern Michigan University</i>	The Relationship of Active Learning Based Courses and Student Motivation for Pursuing STEM Classes
4:00	4:15	Closing Remarks - END OF SESSION	
Friday	4-Apr	3:00pm - 4:15pm	
	Session SFB-3	Robotics - II	Team Meeting Room 1 - Magnus Wahlstrom Library
	Chair	Dr. David McLaughlin	dmclaugh@engin.umass.edu University of Massachusetts - Amherst
3:00	3:15	149 Madhav D Patil, Tamer Abukhalil, <i>University of Bridgeport</i>	Design and Implementation of Heterogeneous Robot Swarm
3:15	3:30	194 Timothy A. Zimmerman, <i>University of Hartford</i>	Neural Network Based Obstacle Avoidance Using Simulated Sensor Data
3:30	3:45	131 Damien Laird, Jack Price, Ioannis A. Raptis, <i>University of Massachusetts Lowell</i>	Spider-Bots: A Low Cost Cooperative Robotics Platform
3:45	4:00	248 Hesham Alsaahafi, Majed Almaleky, <i>University of Bridgeport</i>	Design and Implementation of Metallic Waste Collection Robot
4:00	4:15	Closing Remarks - END OF SESSION	
Friday	4-Apr	3:00pm - 4:15pm	
	Session SFB-4	Renewable Energy - III	500B - Magnus Wahlstrom Library
	Chair	Dr. Shankar Krishnan	krishnans@wit.edu Wentworth Institute of Technology
3:00	3:15	204 Wyatt McClead, Tanner Boster, Chris Hancock, Farshid Zabihian, <i>West Virginia University Institute of Technology</i>	Fabrication of Small Hydro Power Turbine for Residential Applications
3:15	3:30	209 Connor Needham, Jeremy Kacher, Mathias Boyle, Robert Hutchins, Susan Woodard, <i>Roger Williams University</i>	Design of a Vertical Axis Wind Turbine for Urban Areas
3:30	3:45	234 Robert Hood, Mark Jacobs, James Masi, Kayla McCaffrey, <i>University of Southern Maine</i>	In the Wind: From Tunnel to Turbine
3:45	4:00	101 Jordan Cox, Farshid Zabahan, <i>West Virginia University Institute of Technology</i>	Increasing Power Production of Small Dam Hydroelectric Plants
4:00	4:15	Closing Remarks - END OF SESSION	
Friday	4-Apr	3:00pm - 4:15pm	
	Session SFB-5	Wireless Communication - I	500C - Magnus Wahlstrom Library
	Chair	Dr. Paul Crilly	crillypb@gmail.com U.S. Coast Guard Academy
3:00	3:15	164 Raju Shrestha, Mahmoud Elsayed, Paul Cotae, <i>The University of the District of Columbia</i>	On the Mutual Information of Sensor Networks in Underwater Wireless Communication: An Experimental Approach

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3:15	3:30	140	Sapan Parikh, Amish Patel, Syed Rizvi, <i>Penn State University</i>	Increasing Quality of Service (QoS) in Wireless Sensor Networks (WSN) by Using Timestamp Optimization Scheme
3:30	3:45	176	Hussain A. Alhassan, Eman Abdel Fattah, <i>University of Bridgeport</i>	Study the Performance of IEEE 802.16-2004 Includes STBC
3:45	4:00	226	Constadinos Lales, Aparicio Carranza, <i>New York City College of Technology</i>	Using the Raspberry Pi to establish a Virtual Private Network (VPN) Connection to a Home Network
4:00	4:15	Closing Remarks - END OF SESSION		
Friday	4-Apr	3:00pm - 4:15pm		
	Session SFB-6	Image Processing	500D - Magnus Wahlstrom Library	
	Chair	Dr. Kavitha Chandra	kavitha_chandra@uml.edu	University of Massachusetts-Lowell
3:00	3:15	103	Wilson Tsz-Hon Kowk, Zhineng Li, Rahel Steffen, Brendan O'Brien, M.C. Damas, Vazgen Shekoyan, Paul Marchese, and Tak Cheung, <i>CUNY Queensborough Community College</i>	Comparative fractal analysis of 2013 November 5 multiple solar eruptions with Fokker-Planck equation using Solar Dynamics Observatory digital images
3:15	3:30	96	Sudhanshu Sinha, Manohar Mareboyana, <i>Bowie State University</i>	Video Segmentation Into Background and Foreground Using Simplified Mean Shift Filter And Clustering
3:30	3:45	116	Moussa Souaré, Frank Merat, Christos Papachristou, <i>Case Western Reserve University</i>	Efficient Way of Reading Rotary Dial Utility Meter Using Image Processing
3:45	4:00	250	Nicholas Misiunas, Charles Thompson and Kavitha Chandra, <i>University of Massachusetts Lowell</i>	Analysis of Directional Beam Patterns from Firefly Optimization
4:00	4:15	Closing Remarks - END OF SESSION		
Friday	4-Apr	3:00pm - 4:15pm		
	Session SFB-7	Micro and Nanotechnology	Team Meeting Room 6 - Magnus Wahlstrom Library	
	Chair	Dr. Tracie Ferreira	tferreira@umassd.edu	University of Massachusetts - Dartmouth
3:00	3:15	254	Askhan Vakil, Hassan Bajwa, <i>University of Bridgeport</i>	Analytical model of Graphene based antenna for energy harvesting applications
3:15	3:30	252	Yuan You, V.N. Lakshmi, Saion Sinha, D. Dutta, C.K. Sarkar, S. Basu Mail, <i>University of New Haven</i>	AFM characterization of Multilayered Graphene film used as Hydrogen Sensor
3:30	3:45	244	Xi Kang, Chengxin Zhang, Xingguo Xiong, Sk Hasan Hafizul Haque, <i>University of Bridgeport</i>	A MEMS Microfluidic Mixer with Electrostatic Actuation
3:45	4:00	196	Shawn Maxwell, Rajin Roopnath, <i>University of Hartford</i>	Miniature Wireless Quadcopter
4:00	4:15	Closing Remarks - END OF SESSION		
Friday	4-Apr	3:00pm - 4:15pm		
	Session SFB-8	Control System	CELT Room - Magnus Wahlstrom Library	
	Chair	Dr. Tara Kulkarni	tkulkarn@norwich.edu	Norwich University
3:00	3:15	99	Sk Hasan Hafizul Haque, H. M. Imran Hassan, S. M. Abul Hossain, <i>University of Bridgeport</i>	Comparison of Control System Using PLC & PID
3:15	3:30	121	Martin Sinclair, Ioannis A. Raptis, <i>University of Massachusetts Lowell</i>	Distributed Manipulation Using Large-Scale Actuator Networks
3:30	3:45	193	Christopher Palmieri, Judith Hooymans, Cole Gingrich, Tooran Emami, Aaron Dahlen, and Joseph Staier, <i>United States Coast Guard Academy</i>	Electrical Engineering Capstone Project on Dynamic Position System

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3:45	4:00	171	Suleman Belal Kazi, Sherjeel Sikander, Sadia Yousafzai, Suleman Mazhar, <i>Ghulam Ishaq Khan Institute, Pakistan</i>	Fall Detection Using Single Tri-Axial Accelerometer
4:00	4:15	Closing Remarks - END OF SESSION		
Friday	4-Apr	3:00pm - 4:15pm		
	Session SFB-9	Hardware Design	153 – Carlson Hall	
	Chair	Dr. Christopher J. Brigham	cbrigham@umassd.edu	University of Massachusetts - Dartmouth
3:00	3:15	169	Robert A. Hilton, <i>University of Hartford</i>	Reverse Engineering the Volcano CAN BUS Framework for Engine Control Unit Programming
3:15	3:30	230	Thy Dinh, Bryan Slater, Farshid Zabihian, <i>West Virginia University Institute of Technology</i>	NASA Space Flight Design Challenge
3:30	3:45	218	Sundas Zafar, Aparicio Carranza, <i>New York City College of Technology</i>	Motion Detecting Camera Security System with Email Notifications and Live Streaming Using Raspberry Pi
3:45	4:00	245	Jian Chen, Xingguo Xiong, Mirza Rishad Hasan, <i>University of Bridgeport</i>	PSPICE Implementation of an 8-bit Low Power Energy Recovery Full Adder
4:00	4:15	Closing Remarks - END OF SESSION		
Friday	4-Apr	3:00pm - 4:15pm		
	Session SFB-10	Engineering Design Project	252 – Carlson Hall	
	Chair	Dr. Syed Rizvi	ssr16@psu.edu	The Pennsylvania State University - Altoona
3:00	3:15	231	Bryan Slater, Thy Dinh, Branden Frazier, Farshid Zabihian, <i>West Virginia University Institute of Technology</i>	Comparative Analysis of Electric Motorcycle
3:15	3:30	127	Thy Dinh, Bryan Slater, <i>West Virginia University Institute of Technology</i>	Electric Motorcycle Analysis
3:30	3:45	249	Sithisone Kalaya, Hussain A. Alhazmi, <i>University of Bridgeport</i>	Mobile Robots Exploration and Mapping in 2D
3:45	4:00	208	Thomas Goddard, Konstantin Litovskiy, Nathan Nichols-Roy, Matthew Reed, Igor Shvartser, Nicholas Smith, David Zeppa, Linda Werner, Julia E. Rice, , Hans W. Horn, Amanda C. Engler. <i>University of California, Santa Cruz</i>	Dynamics of a Cross-disciplinary Corporate-Sponsored Undergraduate Computer Science Project
4:00	4:15	Closing Remarks - END OF SESSION		
Friday	4-Apr	3:00pm - 4:15pm		
	Session SFB-11	Computer Science and Engineering - II	253 – Carlson Hall	
	Chair	Dr. Carolyn Sher DeCusatis	csher-decusatis@citytech.cuny.edu New York City College of Technology	
3:00	3:15	184	Tiago Martins Ribeiro, Raimundo Pereira da Cunha Neto, <i>CEUT</i>	Method for Computational Intelligence Based on Behavior of Grasshoppers
3:15	3:30	253	Hamoud Alshammari, Hassan Bajwa, Jeongkyu Lee, <i>University of Bridgeport</i>	Hadoop Based Enhanced Cloud Architecture
3:30	3:45	259	Salamahn Mill, Dafe Ukaivbe, Weiwei Zhu, <i>University of Maryland Eastern Shore</i>	Clouds and Cloud Shadows Removal from Infrared Satellite Images in Remote Sensing System
3:45	4:00	106	Brett Ferris, Jay Stahle, Ibrahim Baggili, <i>University of New Haven</i>	The Effectiveness of Built In Firewalls
4:00	4:15	Closing Remarks - END OF SESSION		

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	Session SFB-12	Mechanical System Design - II		108 – Carlson Hall
	Chair	Ikeuchi Katsushi		ki@cvl.iis.u-tokyo.ac.jp University of Tokyo
3:00	3:15	94	Yuanxiong Luo, Jeremy (Zheng) Li, <i>University of Bridgeport</i>	Automated Mechanical System Design to Insert the Copper Wire into the Plastic Block
3:15	3:30	135	Juan Suarez, Edson Borja, <i>WVU Tech</i>	Human Powered Vehicle
3:30	3:45	148	Arar Alkhader, Junling Hu, Akinwumi Akinkunmi, Prabir Patra, Xingguo Xiong, <i>University of Bridgeport</i>	Modeling Iced Bio-Bandage Design for Skin Burns
3:45	4:00	165	Richard Mendoza, Brian Stuckman, Anthony Melkonian, Alexander Gilman, <i>Roger Williams University</i>	A Multidisciplinary Approach to Retrofitting a Vintage Pinball Machine with a Unique Fog Generation System
4:00	4:15	Closing Remarks - END OF SESSION		
Student Paper Saturday Session (April 5, 2014)				
Saturday	5-Apr	11:15am -12:30 pm		
	Session SSA-1	Design and Simulation		Discovery Pavilion - Magnus Wahlstrom Library
	Chair	Dr. Hongwei Sun		hongwei_sun@uml.edu University of Massachusetts - Lowell
11:15	11:30	256	Rahmi Allamadani, Feng Chen, <i>University of Hartford</i>	Electromagnetic Aircraft Launching Unit (EMALU)
11:30	11:45	225	Yang Zhai, Jeremy (Zheng) Li, <i>University of Bridgeport</i>	Automatic Ink Injection
11:45	12:00	105	Edwin Divakaran Maria Selvaraj, Jeremy (Zheng) Li	Design of manufacturing a part
12:00	12:15	236	Shiangyu Lin, Junyi Zou, Xingguo Xiong, Prabir Patra, <i>University of Bridgeport</i>	Bio-MEMS Thermally-Actuated Micro pump
12:15	12:30	Closing Remarks - END OF SESSION		
Saturday	5-Apr	11:15am -12:30 pm		
	Session SSA-2	Wireless Communication - II		Team Meeting Room 1 - Magnus Wahlstrom Library
	Chair	Dr. Paul Crilly		crillypb@gmail.com U.S. Coast Guard Academy
11:15	11:30	206	Breno Fabrício Lira Melo Sousa, Raimundo Pereira da Cunha Neto, <i>CEUT</i>	Honeypots and Mobile Technology: Discovering the attacker
11:30	11:45	228	Kishan Gutta, Madhav Patil, <i>University of Bridgeport</i>	Wireless Sensors in Industrial Instrumentation, A Survey
11:45	12:00	263	Samuel Erskine, Hassan Bajwa, <i>University of Bridgeport</i>	A Survey of Comparison in Classification of Transport Control Protocol for Energy-Efficient Wireless Sensor Network
12:00	12:15	199	Ashenafi Lambebo, Sasan Haghani	A Wireless Sensor Network for Environmental Monitoring of Greenhouse Gases
12:15	12:30	Closing Remarks - END OF SESSION		
Saturday	5-Apr	11:15am -12:30 pm		
	Session SSA-3	Hardware Design		500A - Magnus Wahlstrom Library
	Chair	Dr. Linfeng Zhang		lzhang@bridgeport.edu University of Bridgeport

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11:15	11:30	246	Borui Li, Xiaowei Yu, Bo Zhang, Xingguo Xiong, Lawrence Hmurcik, <i>University of Bridgeport</i>	Implementation of an 8-bit Low-power Multiplier based on Reversible Gate Technology
11:30	11:45	189	Fabio Casagrande, Jingyi Wang, Thomas Marzec, <i>New York Institute of Technology</i>	Drowsiness Monitoring System
11:45	12:00	232	Ziyan Qi, Xingguo Xiong, Linfeng Zhang, Md Tauseef Riasat, <i>University of Bridgeport</i>	Design of Efficient Pass-transistor Binary ALU
12:00	12:15	247	Hao Dong, Xingguo Xiong, Xuan Zhang, <i>University of Bridgeport</i>	Design and Implementation of a Real-time Traffic Light Control System Based on FPGA
12:15	12:30	Closing Remarks - END OF SESSION		
Saturday	5-Apr	11:15am -12:30 pm		
	Session SSA-4	Robotics - III		500B - Magnus Wahlstrom Library
	Chair	Dr. Tooran Emami		tooran.Emami@uscga.edu U.S. Coast Guard Academy
11:15	11:30	260	Abdulla Fawzi Almomani, Faisal Miqdadi, Mustafa Hassanin, Mustafa Samy, Mohammed Awadallah, <i>The Petroleum Institute, Abu Dhabi, UAE</i>	The 1st Pneumatic Fluidic muscles based Exoskeleton Suit in the U.A.E
11:30	11:45	102	Jordan Cox, Derek Burdette, Christopher Shaffer, Farshid Zabihian, <i>West Virginia Institute of Technology</i>	Lighter than Air UAV Design
11:45	12:00	188	Shanique Jiles, <i>University of Hartford</i>	The Robo: Semi-Autonomous Robot that Detects Objects and has Speech Capabilities
12:00	12:15	205	Andrew Thaxton, Farshid Zabihian, <i>West Virginia Institute of Technology</i>	Application of Vertical Axis Wind Turbines in West Virginia
12:15	12:30	Closing Remarks - END OF SESSION		
Saturday	5-Apr	11:15am -12:30 pm		
	Session SSA-5	Big Data		500C - Magnus Wahlstrom Library
	Chair	Dr. Miad Faezipour		mfaezipo@bridgeport.edu University of Bridgeport
11:15	11:30	210	Gautam Siwach, Amir Esmailpour, <i>University of New Haven</i>	Cluster Formation and Encrypted search in Big Data
11:30	11:45	212	Mohammad Naimur Rahman, Amir Esmailpour, <i>University of New Haven</i>	A Hybrid Electrical and Optical Networking Topology of Data Center for Big Data Networks
11:45	12:00	215	Ye Zhou, Amir Esmailpour, <i>University of New Haven</i>	A hybrid efficiency method for improvements in Big Data Hadoop
12:00	12:15	216	Santoshi Kalyani Balasubramanian, Amir Esmailpour, <i>University of New Haven</i>	Hadoop Framework to Provide Fault Tolerance in the Cluster
12:15	12:30	Closing Remarks - END OF SESSION		
Saturday	5-Apr	11:15am -12:30 pm		
	Session SSA-6	Biomedical Engineering		Team Meeting Room 6 - Magnus Wahlstrom Library
	Chair	Dr. Kai-tak Wan		ktwan@coe.neu.edu Northeastern University
11:15	11:30	59	Andrew Martin, Christian Bach, <i>University of Bridgeport</i>	Tooth Tattoo Biosensor, Early Detection of Cancer Utilizing Antigen Concentrations in the Saliva
11:30	11:45	10	Areej Alshehri, Christian Bach, <i>University of Bridgeport</i>	Challenges of Cerebral Palsy Management
11:45	12:00	78	Shamshad Rahman Lubna, <i>University of Bridgeport</i>	Predicting Coronary Heart disease through Risk Factor Categories
12:00	12:15	92	Sukainah Al Hajji, Christian Bach, <i>University of Bridgeport</i>	Stem Cells Therapy

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12:15	12:30	Closing Remarks - END OF SESSION		
Saturday	5-Apr	11:15am -12:30 pm		
	Session SSA-7	College Education	500D - Magnus Wahlstrom Library	
	Chair	Dr. Orla Smyth LoPiccolo	lopicco@farmingdale.edu	State University of New York
11:15	11:30	167	Mohammad H. Hashem, Ahmed A. Al Khawaja, Saleh O. Edhah, Usman I. Hashmi and Al Hareth S. Al Akill, <i>The Petroleum Institute, Abu Dhabi, UAE</i>	How Do Academic Issues Affect College Students' Performance?
11:30	11:45	172	Usman I. Hashmi, Wessam W. Khalifeh, Abdullah M. Alhinai, Mohammad M. Alrefaai, Mohammad H. Hashem, <i>The Petroleum Institute, Abu Dhabi, UAE</i>	Academic Transition
11:45	12:00	223	Israel Aguilera Navarrete, Alejandro Lozano-Guzman, Edna Alcázar-Farías, <i>National Polytechnic Institute, Mexico</i>	S&T Academic Indicators for developing countries
12:00	12:15	177	Faisal Z. Miqdadi, Abdulla F. ALMomani, Mohammad T. (Shadid Masharqa), and Nabil M. Elmousel, <i>The Petroleum Institute, Abu Dhabi, UAE</i>	The Relationship between Time Management and the Academic Performance of Students from the Petroleum Institute in Abu Dhabi, the UAE
12:15	12:30	Closing Remarks - END OF SESSION		
Saturday	5-Apr	11:15am -12:30 pm		
	Session SSA-8	Marketing	CELT Room - Magnus Wahlstrom Library	
	Chair	Dr. Christian Bach	cbach@bridgeport.edu	University of Bridgeport
11:15	11:30	261	Nan Feng, <i>University of Bridgeport</i>	Building a Strong Brand and Managing Brand
11:30	11:45	15	Sultan Alghamdi, Christian Bach, <i>University of Bridgeport</i>	Technological Factors to Improve the Performance of Marketing Strategy
11:45	12:00	20	Adedamola Akinsanya, Christian Bach, <i>University of Bridgeport</i>	Social Marketing: Concept and Application
12:00	12:15	21	Adedamola Akinsanya, Christian Bach, <i>University of Bridgeport</i>	Narrative analysis: The Personal Experience Narrative approach
12:15	12:30	Closing Remarks - END OF SESSION		
Saturday	5-Apr	11:15am -12:30 pm		
	Session SSA-9	Computer Science Survey	152 – Carlson Hall	
	Chair	Dr. Junling Hu	jjhu@bridgeport.edu	University of Bridgeport
11:15	11:30	133	Rasha Gaffer M. Helali	Software semantic metrics: A Survey
11:30	11:45	175	Hussain A. Alhassan, Christian Bach, <i>University of Bridgeport</i>	Operating System and Decision Making
11:45	12:00	19	Ali Radhi Al Essa, Christian Bach, <i>University of Bridgeport</i>	Data Mining and Warehousing
12:00	12:15	14	Anas Bushnag, Christian Bach, <i>University of Bridgeport</i>	Performance Evaluation of Unicacst Networks Using Different Queuing Protocols
12:15	12:30	Closing Remarks - END OF SESSION		
Saturday	5-Apr	11:15am -12:30 pm		
	Session SSA-10	Technology Management - II	153 – Carlson Hall	

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	Chair	Dr. Buket Barkana	bbarkana@bridgeport.edu	University of Bridgeport
11:15	11:30	119	Mohammad Ubaidullah Bokhari, Mahtab Alam, <i>Noida International University</i>	Security Requirement - a Survey Report
11:30	11:45	143	Kai Hu	RFID Infrastructure for Product Take Back: Includes establishing/building a prototype
11:45	12:00	5	Abdalraouf Hassan, Christian Bach, <i>University of Bridgeport</i>	WiMAX Basics from Deployments to PHY Improvements
12:00	12:15	6	Khaled Almgren, Cristian Bach, <i>University of Bridgeport</i>	ERP Systems and its Effects on Organizations: A Proposed Scheme for ERP Success
12:15	12:30	Closing Remarks - END OF SESSION		
Saturday	5-Apr	11:15am -12:30 pm		
	Session SSA-11	Technology Management -III	252 – Carlson Hall	
	Chair	Teresa Piliouras	piliour@optonline.net	Technical Consulting & Research, Inc
11:15	11:30	12	Remah Alshinina, Christian Bach, <i>University of Bridgeport</i>	Improvement in the performance of Design-Science research in Information Systems
11:30	11:45	109	May Alzawawi, <i>University of Bridgeport</i>	Drivers and Obstacles for Creating Sustainable Supply Chain Management and Operations
11:45	12:00	120	Aziz Obaid Alotaibi, Christian Bach, <i>University of Bridgeport</i>	Consumer Awareness and Potential Market for e-Commerce in Saudi Arabia: Challenges and Solutions
12:00	12:15	108	Amer H. Daggag, <i>University of Bridgeport</i>	Greening Information Communication Technologies in Small-Medium Sized Companies
12:15	12:30	Closing Remarks - END OF SESSION		
Saturday	5-Apr	11:15am -12:30 pm		
	Session SSA-12	Technology Management- IV	253 – Carlson Hall	
	Chair	Dr. Saion Sinha	ssinha@newhaven.edu	University of New Haven
11:15	11:30	38	Longyin Sun, Christian Bach, <i>University of Bridgeport</i>	Influencing Factors in the Decision and Management Sciences
11:30	11:45	48	Mohamed Ben Haj Frej, Christian Bach, <i>University of Bridgeport</i>	Robust Prediction for Intra and Inter Handoff (RPIIH) Process over CDMA2000
11:45	12:00	54	Ruzanna Davtyan, <i>University of Bridgeport</i>	Decision Making Analysis on Parking Meters
12:00	12:15	56	Ruzanna Davtyan, <i>University of Bridgeport</i>	Contextual Learning
12:15	12:30	Closing Remarks - END OF SESSION		
Saturday	5-Apr	11:15am -12:30 pm		
	Session SSA-13	Technology Management -V	108 – Carlson Hall	
	Chair	Dr. Nelson Ngoh	ngoh@bridgeport.edu	University of Bridgeport
11:15	11:30	146	Faria Afroz, Christian Bach, <i>University of Bridgeport</i>	Improvement in Drug Delivery System for Parkinson's Disease
11:30	11:45	142	Muhammad Hashim, Israr Khan Yousafzai, <i>Government College of Management Sciences Peshawar, Pakistan</i>	The Impact of Time Flexibility on Employees Performance
11:45	12:00	158	M. Ali-ud-din Khan, Israr Ahmad, <i>University of Peshawar</i>	An Empirical Study into the Relation of Income and Consumption Using Cross-Sectional Data

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12:00	12:15	159	Muhammad Aliuddin Khan, Muhammad Hashim, <i>University of Peshawar</i>	Organizational Change Case Study of General Motors
12:15	12:30	Closing Remarks - END OF SESSION		

End of Schedule.