

**The student poster session will be held on Monday, June 22, from 5:00 p.m. to 7:00 p.m. in Exhibit Hall III**

<b>First Name</b>	<b>Last Name</b>	<b>University</b>	<b>Department</b>	<b>Poster Title</b>	<b>Poster Location</b>
Mihalis	Agora	University of Pennsylvania	Mechanical Engineering and Applied Mechanics	Macroscopic Response and Texture Evolution of Semicrystalline Polymers: A Multiscale Homogenization Approach	A1
Vishal	Agrawal	Georgia Institute of Technology	Operations Management	Decision Support for Improved Financial and Environmental Performance of Enterprise Manufacturing-Remanufacturing Strategies	A2
Se Hyun	Ahn	University of Michigan	Mechanical Engineering	Large-area, Continuous Roll-to-Roll and Roll-to-Plate Nanoimprint Lithography	A3
Theresa	Andrejack	Drexel University	Civil, Architectural, and Environmental Engineering	Development of a Multi-Axial Test for Geotextiles	A4
Juan	Arias-Acosta	University of Nevada, Reno	Civil Engineering	Shake Table Testing of Bridge Columns under Combined Actions	A5
Mohamed Ibrahim El-Sharkawi	Attia	North Dakota State University	Civil Engineering	Significance of Virgin Polymer Modifiers in Improving the Performance of CRM Asphalt Binders	A6
Srinivasa Rao	Bakshi	Florida International University	Mechanical and Materials Engineering	Carbon Nanotube Reinforced Aluminum Coatings and Near Net Shape Structures	A7
Yongjie	Bao	Dalian University of Technology (China)	Key Laboratory for Precision & Non-traditional Machining of Ministry of Education	Researches on Drilling Process of Carbon Fiber Reinforced Plastics	A8
Christopher C.	Bartlow	University of California, Berkeley	Materials Science and Engineering	An Assessment of Surface Characterization Methods and Length-Scale-Dependent Roughness	A9
Yared Shifferaw	Bayleyegn	Johns Hopkins University	Civil Engineering	Inelastic Bending Capacity in Cold-Formed Steel Members	A10
Jeremie	Bertaud	Massachusetts Institute of Technology	Civil and Environmental Engineering	Mechanical Characterization of Alpha Helical Protein Arrangements Using Mesoscale Modeling Techniques	A11
Emily	Blocksom	Purdue University	Civil Engineering	Fire Behavior and Design of Building Floor Systems	A12
Emily	Brackmann	University of Washington	Civil & Environmental Engineering	Improved Pile-to-Wharf Connections to Reduce Seismic Damage of Wharfs	A13

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Eric	Bucholz	University of Florida	Materials Science and Engineering	Atomic-Scale Friction Research and Education Synergy Hub:Uniting the Tribology Community	A14
Zümbül	Bulut	Lehigh University	Industrial & Systems Engineering	Supply Disruptions in One-Warehouse Multiple Retailer Systems	A15
Lindsay Ivey	Burden	Georgia Institute of Technology	Civil Engineering - Geosystems	Fragility and Repair Models for Container Wharves	A16
Jeffrey A.	Butterworth	University of Colorado, Boulder	Electrical and Computer Engineering	GOALI: Control Architectures and Adaptive Model-Inverse Based Methods for Nonminimum Phase Uncertain Systems, with Applications to Atomic Force Microscopes	A17
Liangliang	Cao	University of Pittsburgh	Chemical and Petroleum Engineering	Superhydrophobic Surface and its Application in Skin Drag Reduction	A18
Christine	Carlisle	Wake Forest University	Physics	The Mechanical Properties of Individual Crosslinked and Uncrosslinked Fibrin Fibers	A19
John	Carrell	Texas Tech University	Industrial Engineering	Axiomatic Analysis of Smart Disassembly Fasteners	A20
Robert	Chang	Drexel University	Mechanical Engineering and Mechanics	Bioprinting of Liver Tissue Analog for Studying Drug Metabolic Profiles	A21
Chien-Hung	Chen	Georgia Institute of Technology	Industrial and System Engineering	Disease Propagation Analysis and Mitigation Strategies for Effective Mass Dispensing	A22
Qishi	Chen	Northwestern University	Civil Engineering	Impact of Multi-scale Random Fields on Mechanics of Geosystems	A23
Wei	Chen	Northwestern University	Mechanical Engineering	Tooling-Workpiece Interface Understanding and Modeling: Static Friction Simulation Based on Stick-Slip Theory	A24
Yang	Chen	Ohio State University	Industrial & Systems Engineering	CAREER: Economically Feasible Net Shape Manufacturing of Macro and Micro Glass Optics	A25
Albert Y.	Chen	University of Illinois at Urbana-Champaign	Department of Civil and Environmental Engineering	Resource Allocation Using GIS: A Collaboration framework to Prepare against, Respond to and Recover from Disasters	A26

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Allen	Cheung	Stanford University	Civil & Environmental Engineering	Derivation and Validation of an Autoregressive Model for Structural Health Monitoring	A27
Lisa	Choe	Purdue University	Civil Engineering - Structures	Structural Mechanics of Steel Columns and Beam-Columns Under Fire Loading.	A28
Rachel	Collino	University of Michigan	Mechanical Engineering	Ion-cut Synthesis: Mechanisms of Blister Formation and Layer Transfer	A29
Carolyn	Conlee	Drexel University	Civil & Environmental Engineering	Centrifuge Modeling of Liquefaction Mitigation using Colloidal Silica Stabilizer	A30
Breschine	Cummins	Montana State University	Mathematical Sciences	Unsteady Stokes Model for Fluid-structure Interaction: Response of Filiform Hairs to a Calling Song of a Cricket	A31
Hongyan	Dai	Hong Kong University of Science and Technology (China)	Industrial Engineering and Logistics Management	Analysis of the Impact of RFID Implementation on Reducing Inventory Inaccuracy in a Global Supply Chain	A32
Tiffany	Davis	Northwestern University	Mechanical Engineering	Experimental Friction Study of Micro-Scale Laser-Textured Surfaces	A33
Francisco J.	De Caso y Basalo	University of Miami	Civil, Architectural and Environmental Engineering	Basalt Fiber Reinforced Cementitious – BFRC Matrix Composites for Infrastructure Repair	A34
Flavio Vasconcelos	de Souza	University of Nebraska - Lincoln	Engineering Mechanics	Multiscale Modeling of Impact on Heterogeneous Viscoelastic Solids with Cracks	A35
Charles	DeVore	University of Southern California	Civil Engineering	Controlled Substructure Identification	A36
Abirami	Dhanabalan	Florida International University	Mechanical & Materials Engineering	Preparation and Characterization of Porous SnO <sub>2</sub> /CNTs Thin Films as Anodes for Li-ion Batteries	A37
Leidy Eugenia Peña	Duque	Kansas State University	Biological and Agricultural Engineering	Acid Functionalized Nanoparticles for Hydrolysis of Lignocellulosic Feedstocks	A38
Heather	Dylla	Louisiana State University	Construction Management & Industrial Engineering	Development of a Photocatalytic Titanium Dioxide Coating for Concrete Pavement to Reduce Traffic Air Emissions in Urban Areas	A39

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Ahmed Abd	EL Fattah	Kansas State University	Civil Engineering	Eccentricity Based Analysis of Confined Reinforced Concrete Circular Columns	A40
Dinc	Erdeniz	Northeastern University	Mechanical and Industrial Engineering	Ignition Characteristics of Aluminum-nickel Heterostructures Produced by Ultrasonic Powder Consolidation Method	A41
Zhaoyan	Fan	University of Massachusetts	Mechanical and Industrial Engineering	Self-Powered Wireless Sensing for Pressure, Volume, and Temperature Monitoring of Injection Molding	A42
Zongwei	Fan	Zhejiang University (China)	Mechanical Engineering	Noncontact Manipulation of Micro-scatterers by Acoustic Radiation Force and Torque	A43
Rossella Mafalda	Ferraro	University of Miami	Civil, Architectural and Environmental Engineering	Build Green with Off-white!	A44
Ericka NJ	Ford	Georgia Institute of Technology	Polymer, Textile & Fiber Engineering	Gel-spun, Single-walled Carbon Nanotube Embedded Poly (vinyl alcohol) Fibers Thermally Characterized at Various Stages of High Temperature Drawing	A45
John T.	Fox	Pennsylvania State University	Civil & Environmental Engineering	Novel Ultrasonic Processes and Biomaterials for Sustainability within Foundries	A46
Shang	Gao	Dalian University of Technology (China)	Mechanical Engineering	Mechanism and Technology of Chemo-mechanical Grinding (CMG) with Soft Abrasive Grinding Wheel (SAGW) for Silicon Wafer	A47
Jose M.	Garcia	Purdue University	Agricultural and Biological Engineering	Surface Roughness Effects on Start-up Friction in Hydraulic Motors	A48
Saurabh	Garg	University of California, Berkeley	Mechanical Engineering	Investigation of Internal Cleaning Effects in Two Phase Gas-Liquid Flows	A49
Christopher	Garneau	Pennsylvania State University	Mechanical and Nuclear Engineering	Optimizing User-Device Interaction by Broadening Population Accommodation and Accessibility	A50
Catherine S.	Gay	Vanderbilt University	Civil & Environmental Engineering	Multi-Scale Performance and Durability of Carbon Nanofiber/Cement Composites	A51

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Lee	Gerry	Hong Kong Polytechnic University (China)	Civil and Structural Engineering	ASR Resistance of Pre-cast Concrete Paving Block Incorporating with Different Particle Size of Waste Glass Cullet Replacing Natural Fine Aggregate	A52
John Gardner	Gibbs	University of Georgia	Physics and Astronomy	Designing Catalytic Nanomotors and Their Propelling Mechanism	A53
Wiljeana J.	Glover	Virginia Polytechnic Institute and State University	Industrial and Systems Engineering	Current Studies in Kaizen Event Effectiveness and Sustainability	A54
Ranjit Prasad	Godavarthy	Kansas State University	Civil Engineering	Decreasing Excessive Delay for Motorists at Mid-Block Pedestrian Crossings by using a HAWK Beacon Signal (Pedestrian Hybrid Signal)	A55
Abhishek	Goel	University of Texas at Austin	Mechanical Engineering	Electrochemical Infiltration of Selective Laser Sintered Preforms	A56
Jizhan	Gou	Mississippi State University	Civil & Environmental Engineering	Dynamic Message Sign Diversion Control and Alternative Road Signal Coordination for Capacity Decreased Freeway Corridor	A57
Martha E.	Grady	University of Illinois at Urbana-Champaign	Mechanical Science and Engineering	Dynamic Delamination of Patterned Thin Films	A58
Serhat	Gul	Arizona State University	Industrial, Systems, and Operations Engineering	Bi-Criteria Scheduling of Surgical Services for an Outpatient Procedure Center	A59
Waseem	Haider	Florida International University	Mechanical and Materials Engineering	Corrosion analysis of NiTi and NiTiTa	A60
Wael M.	Hassan	University of California, Berkeley	Civil & Environmental Engineering	Seismic Performance of Corner Non-Ductile Beam Column Joints in Gravity Load Designed Existing RC Building	A61
Jack Wu Chun	Ho	Hong Kong Polytechnic University (China)	Industrial and Systems Engineering	An Inspection System for Printed Circuit Board and Light Bulb Industries: A Practical and Rapid Approach Using Computer Vision and Intelligent Optimization Method	A62
Benjamin	Hsia	University of California, Berkeley	Chemical Engineering	Evolution of Surface Morphology of Epitaxial Graphene on 6H-SiC (0001)	A63
Shih-Lun	Hsu	Tunghai University (Taiwan)	Industrial Engineering	RFID Based Manufacturing Information and Control System	A64

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Jun	Hu	Dalian Jiaotong University (China)	Industrial Design	Experiment Investigations Of Easy-Cutting Titanium Alloy TC4 By Adding Hydrogen	A65
Tevis	Jacobs	University of Pennsylvania	Materials Science & Engineering	Characterization of Wear at the Atomic Scale: Exploring Ultra-Strong Materials for Wear-Resistance	A66
Neo W.	Jang	University of Rochester	Mechanical Engineering	Natural Frequency of a Bubble in a Tube: Experimental and Simulation Results	A67
Wenzhao	Jia	University of Connecticut	Chemical Engineering	Electrocatalytic Oxidation and Reduction of H <sub>2</sub> O <sub>2</sub> on Vertically Aligned Co <sub>3</sub> O <sub>4</sub> Nanowalls Electrode: Toward H <sub>2</sub> O <sub>2</sub> Detection	A68
Janine	Johnson	Georgia Institute of Technology	Mechanical Engineering	Stochastic Analysis of Reconstructed Porous Cermets used in Solid Oxide Fuel Cells (SOFCs)	A69
Ryan L.	Jones	Texas A&M University	Chemistry	FTIR and Atomic Force Microscopy Studies of Organosilane Self Assembled Monolayers in Silica Asperity-Asperity Junctions	A70
Parash	Kalita	University of Arkansas	Mechanical Engineering	Preliminary Study of Performance of Nanoparticles Based Machining Lubricants in MQL Grinding for Green Manufacturing	A71
Hyeran	Kang	Brown University	Physics	Mechanics of Biomimetic Systems Propelled by Actin Comet Tails	A72
Lulu	Kang	Georgia Institute of Technology	Industrial & Systems Engineering	A General Modeling and Design Approach for Mixture-of-Mixture Experiments	A73
Orkun	Karabasoglu	Carnegie Mellon University	Mechanical Engineering	Design Optimization of Magneto-Dielectrics for RF Applications	A74
Michael	Koch	Oregon State University	Mechanical Engineering	Open Design – The Emergent Face of Engineering	A75
Benjamin D.	Kosbab	Georgia Institute of Technology	Civil & Environmental Engineering	Preliminary Seismic Reliability Evaluation of a Jumbo Container Crane	A76
Hare	Krishna	Washington University	Physics	Energy Transfer Driven Self-organization: A Cost-effective Route to Create Novel Functional Nanostructures	A77

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Adarsh	Krishnamurthy	University of California, Berkeley	Mechanical Engineering	Parallel GPU Analysis for Real-Time Manufacturability Feedback	A78
Girish	Krishnan	University of Michigan	Mechanical Engineering	A Building Block Approach to the Synthesis of Biologically Inspired Mechanical Systems	A79
Ramasubramani	Kuduva-Raman-Thanumoorthy	Georgia Institute of Technology	School of Polymer, Textile and Fiber Engineering	Microfabrication of Polymer based Microstructures through Hot Embossing Techniques	A80
Mukund	Kumar	Georgia Institute of Technology	Mechanical Engineering	Laser Assisted Mechanical Micromachining	A81
Busaba	Laungrungrong	Arizona State University	Industrial, Systems and Operations Engineering	Control Schemes for Multivariate Poisson-distributed Data	A82
Bo Yeon	Lee	Georgia Institute of Technology	Civil & Environmental Engineering	Influence of TiO <sub>2</sub> Nanoparticles on Early C3S Hydration Examined by Boundary Nucleation Theory	A83
HyunWook	Lee	Virginia Polytechnic Institute and State University	Mechanical Engineering	An Empirical Approach to model the Friction Coefficient for Wheel-Rail Contact	A84
Remy	Lequesne	University of Michigan	Civil & Environmental Engineering	The Design of Coupled Wall Systems for Earthquake Motions with High-performance Fiber Reinforced Concrete	A85
Xiaohua	Li	Florida International University	Mechanical and Material Engineering	Multifunctional MWCNT for Structural Vibration Control: Sensing, Damping and Mathematical Modeling	A86
Rui	Li	University of California, Irvine	Civil & Environmental Engineering	Dynamic Mechanical Behavior of Magnetorheological Nanocomposites	A87
Xiaopeng	Li	University of Illinois at Urbana-Champaign	Civil & Environmental Engineering	Measurement and Estimation of Traffic Oscillation Properties	A88
Jia	Li	University of Massachusetts Amherst	Civil & Environmental Engineering	How Will the Uncertainty Influence the Macroscopic Traffic Prediction?	A89
Jiliang	Li, P.E.	University of Akron	Civil Engineering	Strip Loading Test: A Newly Developed Soil Shear Strength Testing Method	A90
Ting	Lin	Stanford University	Civil and Environmental Engineering	Towards Effective Ground Motion Selection: Implementation of Conditional Mean Spectrum (CMS)	A91

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Sheng-Lin	Lin	University of Illinois at Urbana-Champaign	Civil & Environmental Engineering	NEES Integrated Seismic Risk Assessment Framework	A92
Bin	Lin	University of South Carolina	Mechanical Engineering	Active Nano-PWAS for Structural Health Monitoring	A93
Yan	Liu	Case Western Reserve University	Civil Engineering	Innovative Time Domain Reflectometry (TDR) Sensor for Fresh and Early Stage Concrete	A94
Zhen	Liu	Case Western Reserve University	Civil Engineering	Fusion of Innovative Sensing and Multiphysical Simulations for Freezing Soils: Towards A Holistic Poromechanical Model	A95
Shuntao	Liu	North Carolina State University	Mechanical and Aerospace Engineering	Damage Detection Using Time Reversal Imaging Technique	A96
Haijun	Liu	University of Maryland	Mechanical Engineering	Fly Ear Inspired Miniature Directional Microphones	A97
Yingyan	Lou	University of Florida	Civil and Coastal Engineering	A Robust Approach to Discrete Network Design with Demand Uncertainty	A98
Nanshu	Lu	Harvard University	Engineering and Applied Science	Ductility of Thin Metal Films on Polymer Substrates	A99
Xiaoji	Ma	University of Kentucky	Electrical and Computer Engineering	Reflection of Illumination Laser from GMAW Weld Pool Surface	A100
Feiyue	Ma	University of Washington	Mechanical Engineering	Electro-Active Nanostructures by Nanoimprinting and Electrospinning	A101
Joanna	MacKay	University of California, Berkeley	Bioengineering	Engineering Cell-matrix Mechanobiology with Rho GTPase	A102
Numpon	Mahayotsanun	Northwestern University	Mechanical Engineering	Tooling-Integrated Draw-in Sensor for Stamping Process Monitoring	A103
Sachin	Mali	University of Louisiana at Lafayette	Chemical Engineering	On the Enhanced Mechanical Properties through Phase-reversion in Metastable Austenitic Stainless Steels	A104
Ben	Mason	University of California at Berkeley	Civil & Environmental Engineering	Seismic Performance Assessment in Dense Urban Environments	A105
Edward J.	McCumiskey	University of Florida	Mechanical and Aerospace Engineering	Fabrication of Quantum Dot – Polymer Circuits for Mechanical and Electrical Characterization	A106

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Meghan	McGrath	Missouri University of Science and Technology	Metallurgical Engineering	(AHSS) Development of Nano-acicular Duplex Steels	A107
Fanghua	Mei	Louisiana State University	Mechanical Engineering	Fabrication, Bonding, Assembly, and Heat Transfer Testing of Metal-based Microchannel Heat Exchange Devices	A108
Henry W.	Milliman	Case Western Reserve University	Macromolecular Science and Engineering	Improved Impact Resistance of Polysulfone through Incorporation of PhenylTriSilanol POSS®	A109
Darya	Monaenkova	Clemson University	MS&E	Materials for Fiber-based Probes	A110
Eric M.	Monroe	Arizona State University	Industrial, Systems, and Operations Engineering	Experimental Designs for Accelerated Life Tests with Non-linear Constraints and Censoring	A111
Carlos A.	Montes-Solano	Clemson University	Mechanical Engineering	Machining Accuracy Improvement Through Visual Control of an Active Display	A112
Cesar A.	Morales-Silva	University of South Florida	Electrical Engineering	Functional Magnetic Polymer Nanocomposite Films for Tunable RF Device Applications	A113
Erick	Moreno-Centeno	University of California, Berkeley	Industrial Engineering and Operations Research	Optimization and Education: Finalist Selection in a Student Paper Competition	A114
Mohammed	Mousa	The University of Alabama at Birmingham (UAB)	Civil, Construction , and Environmental Engineering	Composite Structural Insulated Panels (CSIPs) for Hazards Resistant Structures	A115
Chandan K.	Mozumder	University of Notre Dame	Aerospace and Mechanical Engineering	Hybrid Cellular Automata for Topology Sizing Optimization of Shell-based Structures in Automotive Crashworthiness Structural Design	A116
Iana	Muchaidze	Missouri University of Science and Technology	Civil & Architectural Engineering	Development and Validation of Miniature Cable Sensor and Pressure Type	A117
Gopal	Nadadur	Pennsylvania State University	Mechanical Engineering	Designing for Human Variability: Maximizing Product Utility for Target User Populations	A118
Robert L.	Nagel	Missouri University of Science and Technology	Mechanical Engineering	Integrating Functional and Process Models for Conceptual Design	A119

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Harsh	Nandan	Virginia Polytechnic Institute and State University	Engineering Science and Mechanics	Modal Character-based Health Monitoring of Bridges Under Environmental Influence	A120
Omer	Necati CORA	Virginia Commonwealth University	Mechanical Engineering	Manufacturing of Micro-engineered Surfaces for Fuel Cell, Heat and Mass Transfer Applications by Powder Compaction Process	A121
Alisa G.	Neeman	University of California, Santa Cruz	Computer Science (focusing on scientific visualization)	Decomposition and Visualization of Fourth-Order Elastic-Plastic Soil Stiffness Tensors with VEES (Visualizer for Earthquake Engineering Simulation)	A122
Michael	Nehme	The University of Texas at Austin	Operations Research and Industrial Engineering	Parallelizing the Bipartite Stochastic Network Interdiction Problem	A123
Jie	Ning	University of Michigan	Industrial and Operations Engineering	Pricing and Managing Risks in Global Manufacturing Enterprise	A124
Carlos Alonso Cruz	Noguez	University Of Nevada, Reno	Civil & Environmental Engineering	Seismic Performance Of Bridge Systems With Conventional And Innovative Design	A125
Hae Young	Noh	Stanford University	Civil & Environmental Engineering	On the Use of Wavelet Coefficient Energy for Structural Damage Diagnosis after Earthquakes	A126
Leann Lynn	Norman	University of Maryland	Bioengineering	Mechanotactic Effects on Cortical Neuron Outgrowth	A127
Pinar	Okumus	University of Wisconsin, Madison	Civil & Environmental Engineering	Rapid Bridge Construction Technology: Precast Elements for Substructures	A128
Michael J.	Olsen	University of California, San Diego	Structural Engineering	Discovering the Fate and Transport of Seacliff Failure Sediment in San Diego County using Terrestrial Laser Scanning	A129
Patrick	O'Malley	The Catholic University of America	Mechanical Engineering	Three Dimensional Vibration Measurements using a Fiveaxis Scanning Laser Vibrometry System	A130
Sarah K.	Oman	Oregon State University	School of Mechanical, Industrial, and Manufacturing Engineering	Establishing Creativity Metrics to Evaluate Concept Design in an Engineering Virtual Environment (VOICED)	A131

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Mary Beth	Oshnack	Oregon State University	Civil and Construction Engineering	An Approach to Tsunami Resistant Design Through Field Reconnaissance and Large Scale Experimentation	A132
Feng	Pan	University of Arkansas	Mechanical Engineering	Understanding Corrosion and Diffusion Behavior in Metal Particle Polymer Composites for Corrosion Sensing	A133
Jonghyun	Park	University of Michigan	Mechanical Engineering	Interaction and Self-assembly of Nanoparticles for Biomedical, Nanodevice, and Material Applications	A134
Rakhi P.	Patel	Colorado School of Mines	Chemical Engineering	Novel Reactively Compatibilized Biobased Blends	A135
Marco	Pavone	Massachusetts Institute of Technology	Department of Aeronautics and Astronautics	Distributed Vehicle Routing in a Stochastic and Dynamic Environment	A136
Kamran	Paynabar	University of Michigan	Industrial and Operations Engineering	Monitoring of Cyclic Waveform Signals Using Wavelets	A137
Jacqueline	Pelealuw	University of Massachusetts Lowell	Mechanical Engineering	Nanoheater Systems	A138
Brandon	Pope	Texas A&M University	Industrial & Systems Engineering	Designing Optimal Incentives for Distributed Systems	A139
Kerry	Poppa	Missouri University of Science and Technology	Interdisciplinary Engineering	Sorting Automated Concept Generator Results Based on Design for Manufacture and Assembly	A140
Huseyin Bogac	Poyraz	Western Michigan University	Materials Science & Engineering	Micro-Laser Assisted Machining ( $\mu$ -LAM): Scratch Tests on 4H-SiC	A141
Ian	Prowell	University of California, San Diego	Structural Engineering	A Full-scale Seismic Study of Wind Turbines using Multiple NEES Sites	A142
Feng	Qin	The University of Alabama	Mechanical Engineering	Cutting Edge Radius Effects on Diamond Coated Cutting Tools	A143
Pradeep	Radhakrishnan	University of Texas at Austin	Mechanical Engineering	Designing Planar Mechanisms using Computational Search	A144
Rahul	Rajgarhia	University of Arkansas	Mechanical Engineering	Microstructural Stability and Plastic Deformation Behavior of Nanocrystalline Copper-Antimony Alloys	A145

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Jatinder Bir Singh	Randhawa	Johns Hopkins University	Chemical and Biomolecular Engineering	Hierarchical Self-assembly of 3D Metallic Microstructures for Terahertz Applications	A146
Ruirui	Ren	Lehigh University	Civil & Environmental Engineering	Development of a Design Methodology for Precast Concrete Diaphragm Panel-to-Panel Connections	A147
Amber Leigh	Romasco	Pennsylvania State University	Materials Science and Engineering	Nanoindentation of Thin Metallic Coatings: Time Dependent Deformation of Thin Film Platinum & Improved Wear Properties of Thin Film Gold	A148
Sayantan	Roy	University of Akron	Polymer Engineering	Strengthening of Polyolefins by Bottom-up Self-assembly of POSS Nanoparticles	A149
Vincent	Sabatini	Embry-Riddle Aeronautical University	Mechanical Engineering	EcoCAR: The NeXt Challenge Presents: The ERAU EcoEagles' B20 Power Split EREV	A150
Sripati	Sah	University of Connecticut	Mechanical Engineering	Integrated Pressure Sensing for Stamping Processing Monitoring	A151
Saurabh	Sarkar	University of Cincinnati	Mechanical Engineering	Feature Selection on Extremely High Dimensional Data	A152
Aarati	Sarwade	University of Nebraska - Lincoln	Industrial and Management Systems Engineering	Modeling and Analysis of Material Removal and Tool Wear in Micro Ultrasonic Machining	A153
Matthew N.	Saunders	The University of Texas at Austin	Mechanical Engineering	Extreme Experience Design for Breaking Barriers to Innovation	A154
James V.	Scicolone	New Jersey Institute of Technology	Materials Science and Engineering	Magnetically Assisted Mixing of Nanosized Particles	A155
Michael	Sealy	University of Alabama - Tuscaloosa	Mechanical Engineering	Massive Parallel Laser Direct-Write of Sub-micron Dent Array for Quantum Leap of Fatigue Performance	A156
Mina	Seif	Johns Hopkins University	Civil Engineering	Cross-section Stability of Structural Steel	A157
Andrew	Seifried	Stanford University	Civil and Environmental Engineering	Characterization of Random Fields and their Impact on the Mechanics of Geosystems at Multiple Scales	A158
Jinesh	Shah	University of Louisiana at Lafayette	Chemical Engineering	On the Enhanced Mechanical Properties through Phase-reversion in Metastable Austenitic Stainless Steels	A159

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Sheetal B.	Shetye	University of Florida	Electrical and Computer Engineering	Magnetic Self-Assembly with Angular Orientation and Selective Bonding	A160
Ching-Shin Norman	Shiau	Carnegie Mellon University	Mechanical Engineering	Do More Batteries Make a Plug-in Better? An Economic and Environmental Analysis of Plug-in Hybrid Vehicles	A161
Abhishek K.	Shrivastava	Texas A&M University	Industrial & Systems Engineering	Spatio-temporal models for Port and Waterway Safety and Security	A162
Margaret	Sobkowicz	Colorado School of Mines	Chemical Engineering	Renewable Carbon Nanocomposites with Carbon Nanostructures: Functionalization Strategies	A163
Alison	St. Clair	Virginia Polytechnic Institute and State University	Civil and Environmental Engineering – Construction Management	International Research & Educational Experience at CSIRO and Water Utilities in AUSTRALIA.	A164
Andreas	Stavridis	University of California, San Diego	Structural Engineering	Seismic Performance Assessment of Non-Ductile Reinforced Concrete Frames with Infill Walls	A165
Kimberly	Stroka	University of Maryland	Bioengineering	Mechanical Properties of the Substrate Affect Leukocyte Migration	A166
Carlos Andres Trujillo	Suarez	State University Of New York At Stony Brook	Mechanical Engineering	Motion Generation And Swept Volume Analysis By Subdivision Scheme	A167
Alexander Boudewijn	Suma	University of Miami	Civil, Architectural and Environmental Engineering	Towards Innovative, Integrated Designs for Wind Energy	A168
Xin	Sun	University of Missouri at Columbia	Mechanical and Aerospace Engineering	Horizontally Aligned SiC Nanowires on Sapphires via Chemical Vapor Deposition	A169
Jihyun	Sung	Ohio State University	Mechanical Engineering	Sheet Formability of Advanced High Strength Steels	A170
Stephanie	Thompson	Georgia Institute of Technology	Mechanical Engineering	A Process-Centric Problem Formulation for Decision-Based Design	A171
Andrew	Tilstra	University of Texas at Austin	Mechanical Engineering	A Systematic Method of Product Design for Flexibility for Future Evolution	A172
Daniel	To	New Jersey Institute of Technology	Chemical Biological and Pharmaceutical Engineering	Characterization of RESS Based Mixing and Deagglomeration	A173

**The student poster session will be held on Monday, June 22, from 5:00 p.m. to 7:00 p.m. in Exhibit Hall III**

<b>First Name</b>	<b>Last Name</b>	<b>University</b>	<b>Department</b>	<b>Poster Title</b>	<b>Poster Location</b>
Tom	Vose	Northwestern University	Mechanical Engineering	Friction-Induced Part Manipulation with a Rigid Oscillated Plate	A174
Ke	Wang	Dalian University of Technology (China)	Mechanical Engineering	Chemical Mechanical Polishing of Magnesium Oxide Single Crystal	A175
Wenyuan	Wang	Hong Kong University of Science and Technology (China)	Industrial Engineering and Logistics Management	Measuring Sustainability of Product Design by Developing Life Cycle Commonality Index	A176
Wen-kuan	Wang	Tunghai University (Taiwan)	Industrial Engineering	Order Fulfillment under Resource Capacity Constraints: A Case Study of the Electronic Industries for Passive Components in Taiwan	A177
Ying	Wang	University of Connecticut	Chemical, Materials and Biomolecular Engineering	Gas Sensor Using Polypyrrole-Coated TiO <sub>2</sub> /ZnO Nanofibers	A178
Ying	Wang	University of Florida	Mechanical and aerospace engineering	Exploring the Origins of the Extraordinary Mechanical Properties of Natural Cellular Materials	A179
Junwen	Wang	University of Kentucky	Electrical and Computer Engineering	Product Sequencing with Respect to Quality in Flexible Manufacturing Systems with Batch Operations	A180
Zhichao	Wang	University of Maryland	Mechanical Engineering	Market Oriented Product Line Design Considering Risk and Competition	A181
Haizhong	Wang	University of Massachusetts Amherst	Civil & Environmental Engineering	Fundamental Diagrams of Traffic Flow: From Deterministic to Stochastic	A182
Wei	Wang	University of Texas at Austin	Mechanical Engineering	Polarization-Selective Transmission Properties of a Metallic Rectangular Array with a Varying Hole Channel Shape	A183
Amy Javernick	Will	Stanford University	Civil & Environmental Engineering	Acquiring and Sharing Knowledge for International Projects within Multinational Infrastructure Firms	A184
Wai Kuen	Wong	Drexel University	Civil, Architectural, & Environmental Engineering	Effect of Carbon Black and Nanoclay on Antioxidant Depletion in High Density Polyethylene	A185
Jun	Wu	Colorado State University	Civil & Environmental Engineering	An Innovative Approach to Estimate Long-span Bridge's Safety Under Extreme Events	A186

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Xiaoxia	Wu	University of North Carolina at Charlotte	Mechanical Engineering and Engineering Science	Young's Modulus Measurement of BaB6 Nanowires	A187
Xiaoxiang	Xia	Institute of Physics, CAS (China)	The Laboratory of Microfabrication	Fabrication of Metamaterials with Nanostructure by E-beam Lithography	A188
Zengmin	Xia	University of Connecticut	Materials Science and Engineering,	Biomimetic Collagen-hydroxyapatite Coating on UV Irradiated Ti6Al4V Discs	A189
Shiyu	Xu	Stevens Institute of Technology	Mechanical Engineering	Characterization of PZT Nanofibers and the Nanocomposites for Acoustic Emission Sensor	A190
Shi-Yu	Xu	University of California, Los Angeles	Civil & Environmental Engineering	Hysteretic Models for RC Bridge Columns Considering Axial-Shear-Flexural Interaction	A191
Wang	Yancheng	Zhejiang University (China)	Institute of Advanced Manufacturing Engineering, College of Mechanical and Energy Engineering	Research on Biomimetic Multidimensional Microvibrometer and Its Application Inspired from the Vibration Sensilla of Spiders	A192
Wei	Yang	Texas A&M University	Mechanical Engineering	Deformation of Coated Materials: Diffusion Bonding by Warm Rolling	A193
Xiaowei	Ye	Hong Kong Polytechnic University (China)	Civil and Structural Engineering	Fatigue Reliability Assessment of Steel Bridges with Structural Health Monitoring System: Methodology, Experiment, and Application	A194
Il	Yeo	University of Michigan	Mechanical Engineering	Feedback Matching Framework for Product Data Interoperability	A195
Eda	Yildirim	Drexel University	Mechanical Engineering And Mechanics	Plasma Surface Modification Of Three Dimensional Tissue Engineering Scaffolds	A196
Christina Marie	Young	Rutgers the State University of New Jersey	Industrial & Systems Engineering	Multi-Objective Optimization of a Port-of-Entry Inspection Policy	A197
Cunjiang (Kevin)	Yu	Arizona State University	Mechanical and Aerospace Engineering	Stretchable Supercapacitors Based on Buckled Single Wall Carbon Nanotube Macro-Films	A198
Xinbao	Yu	Case Western Reserve University	Civil Engineering	Assessment of the Automation Algorithm for TDR Bridge Scour Monitoring System under Various Conditions	A199

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Yong	Yu	University of Houston	Mechanical Engineering	Numerical Analysis of Acoustic Wave Propagation in Layered Carbon nanofiber Composites	A200
Heping	Yuan	Dalian University of Technology (China)	Mechanical Engineering	Development of Electroplated CBN Wheel with Controlled Abrasive Clusters and Grinding of Carbon/Epoxy Composites	A201
Zewei	Yuan	Dalian University of Technology (China)	Mechanical Engineering	High-productivity Ultraprecise Planarizing Technique of Diamond Wafer	A202
Chumpol	Yuanyai	Pennsylvania State University	Industrial and Manufacturing Engineering	Yield Improvement for Lost Mold Rapid Infiltration Forming Process by a Multi-Stage Fractional Factorial Split Plot Design	A203
Bin	Zhang	Case Western Reserve University	Civil Engineering	Study on the Effects of Freezing-thawing on Geomaterials Using an Innovative Thermo-TDR Sensing Probe	A204
Yang	Zhang	Georgia Institute of Technology	Industrial & Systems Engineering	Load Plan Evaluation for Less-Than-Truckload	A205
Kunbo	Zhang	State University Of New York At Stony Brook	Mechanical Engineering	Intelligent Fault Detection and Diagnosis of Leakage in a Complex Pneumatic System Using Wavelet and Vectorized Map	A206
Zhiguo	Zhang	Tianjin University (China)	College of Precision Instruments & Opto-electronics Engineering	Three-Dimensional Molecular Dynamics Modelling of Nano Cutting	A207
Xi	Zhang	University of South Florida	Industrial and Management Systems Engineering	Analysis of Interaction Structure among Process Variables in Semiconductor Manufacturing	A208
Jieyun	Zhou	Georgia Institute of Technology	Industrial & Systems Engineering	Closed-form Approximations for Multi-asset Spread Option Prices and Greeks	A209
Zhi	Zhou	Rensselaer Polytechnic Institute	Decision Sciences and Engineering Systems	Agent-Based Simulation and Optimization with Learning and Applications on Electricity Markets	A210
Deju	Zhu	Arizona State University	Civil & Environmental Engineering	Experimental Analysis of Aramid Fabric for Use in Aircraft Engine Containment System	A211
Ting	Zhu	Pennsylvania State University, University Park	Engineering Science and Mechanics	NanoManufacturing of Quantum Dot Light Emitting Diodes by Mist Deposition	A212
Yada	Zhu	Rutgers the State University of New Jersey	Industrial & Systems Engineering	Optimal Design of Multiple Stresses Accelerated Life Testing	A213

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Tiffany	Ziebell	Massachusetts Institute of Technology	Materials Science & Engineering	Effect of Annealing on the Residual Stress in Electrodeposited Nanocrystalline Ni-W Alloys	A214