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| **RICHARD J. F ASENMYER** **ENGINEERING DESIGN CONFERENCE** **SATURDAY, APRIL 29, 2017**  | SKF LogoOUTSTANDINGCAPSTONEPROJECT SPONSOR |
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| **SCHEDULE OF EVENTS**  | **KEYNOTE SPEAKER** Tiffany BeersTiffany Beers graduated from Penn State Behrend in 2002 with a B.S. in Plastics Engineering Technology. She is a senior innovator at Nike, working in the company’s Innovation Kitchen. Using groundbreaking technology, Beers helps designers bring their ideas to reality by seeing concepts through to production. She also partners with designers and engineers to solve problems and evolve concepts into beautiful performance solutions.Beers joined Nike in 2004 and holds forty utility patents and three design patents for her work there. She was a key innovator for the Hyperadapt 1.0, 2011 and 2016 Nike Mag, and Air Jordan 29, leading the projects from concept to retail sale. Other Nike technology and products she helped to develop include the Nike Flywire, Nike Flyweave, Kobe 7, and Tom Sachs Collection. | **ABOUT THE CONFERENCE** The Richard J. Fasenmyer Conference showcases the results of year-long engineering senior capstone projects supervised and managed by students and guided by their faculty and industry advisers. In many cases the projects address applied problems posed by industrial sponsors.In 2005, the conference was named to honor the legacy of Richard J. Fasenmyer. An Alumni Fellow and Distinguished Alumnus of the University, Fasenmyer was the first alumnus of Penn State Behrend to donate $1 million to the college.Penn State Behrend mark  |
| **7:30–11:30 a.m.** |
| Refreshments in Clark Café |
| **8:00 –11:30 a.m.** |
| Senior Presentations |
| Half-hour sessions including Q&A |
| **11:45 a.m.–12:15 p.m.** |
| Keynote Speaker |
| Tiffany Beers ’02 |
| Samuel P. “Pat” Black III Conference Center, |
| 180 Burke |
| **12:15 –12:30 p.m.** |
| Student and Sponsor Award Presentations |
| Samuel P. “Pat” Black III Conference Center, |
| 180 Burke |
| **Class Pictures Immediately Following Awards** |
| Photos will be taken in 180 Burke. Assemble in the |
| hallway outside of 180 Burke and wait to be called to |
| the stage. Class photo times: ME 12:35, IBE 12:40, IE |
| 12:45, MET 12:50, PLET 12:55, CSSE 1:00, ECE 1:05, |
| ECET 1:10. |

**RICHARD J. F ASENMYER ENGINEERING DESIGN C ONFERENCE**

**SENIOR PROJECTS**

#  **Computer Science and Software Engineering**

## 8:00 a.m. 202 Burke

***Intelligent Academic Planner***

Penn State Behrend School of Engineering, sponsor Daria Cook, Krystal Elliott, Xiaoyu Zhou

Dr. Meng Su, faculty adviser

## 8:30 a.m. 202 Burke

***An Open Source Tool for Security Analytics*** Penn State Behrend School of Engineering, sponsor Andy Zheng, Austin Julio, Caleb Rush

Dr. Zhifeng Xiao, faculty adviser

## 9:00 a.m. 202 Burke

***Soccer Mom’s All-In-One App***

Penn State Behrend School of Engineering, sponsor Alex Walkowski, Travis Becker, Tyler Lewis

Dr. Jalaa Hoblos, faculty adviser

## 9:30 a.m. 202 Burke

***NPEIV Companion Web Application***

Penn State Behrend School of Engineering, sponsor Clint Motosicky, Hozaifa Abdalla, Luke Poniatowski Mrs. Melanie Ford, faculty adviser

***10:00 a.m. 105 Burke Redis Cluster Management*** Interactive Intelligence, sponsor

Alex Kiefer, Christopher Bendt, Cory Stonitsch Dr. Wen Li Wang, faculty adviser

## 10:00 a.m. 106 Burke

***Virtual Reality: Texting and Driving***

Erie Insurance Group, sponsor

Jacob Wheeler, Nathan Christiansen, Nicholas Kapty Mr. George Dudas, faculty adviser

## 10:00 a.m. 202 BurkeGamified Training for Assessment of Child Physical Abuse

Penn State Behrend School of Engineering, sponsor Adam Meanor, Gregory Louchart, Jordan LaRiccia Dr. Richard Zhao, faculty adviser

## 10:30 a.m. 105 Burke Organizational Efficiency with Artificial Intelligence

Interactive Intelligence, sponsor

Allison Steinmetz, Joshua Dickey, Manan Patel Dr. Xiaocong Fan, faculty adviser

## 10:30 a.m. 106 Burke

***Mixed Reality Training***

Erie Insurance Group, sponsor

Mason Toy, Rachel Rattay, William Emmel Mr. Ronald Del Porto, faculty adviser

## 10:30 a.m. 201 Burke

***UML Web Designer for Teams***

Penn State Behrend School of Engineering, sponsor Brian Ristau, Matthew Downey

Dr. Naseem Ibrahim, faculty adviser

***11:00 a.m. 106 Burke Security Communication Platform*** Erie Insurance Group, sponsor

Brendan Burger, Devon Smith, Tyler Mosakowski Dr. Naseem Ibrahim, faculty adviser

#  **Electrical and Computer Engineering**

***8:00 a.m. 105 Burke
Pulse Input Processor and Logger*** FMC Technologies, sponsor

Daphne Cruz Hidalgo, Kevin Brenneman, Michael Stumpf Dr. Sudarshan Nelatury, faculty adviser

***8:00 a.m. 205 Burke
Dry Ingredient Machine Optimization*** Process and Data Automation, sponsor Christina McNeal, Austin Sosnowski

Dr. George Walters, faculty adviser

## 8:30 a.m. 205 Burke

***Wireless Recipe System Evaluation and Development***

Process and Data Automation, sponsor

Aron Barker, Oluwatimilehin Areola, Jonathan Schaub Dr. George Walters, faculty adviser

***9:00 a.m. 207 Burke
Capacitive Touch Sensor Programming*** Philips Respironics, sponsor

Luke Aaron, Nicholas Korzi, Xue Zheng Saw Dr. Thomas Hemminger, faculty adviser

## 9:30 a.m. 102 Burke

***ECE: Remote Control and Autonomous Mobile 4x4 Robotic Platform***

Chad Hensley, sponsor Matthew Cauvel, Ryan Kelley Mr. Robin Panda, faculty adviser

## 9:30 a.m. 105 Burke

***HMI Touch Panel***

Imperial Systems, sponsor

Seigi Yokota, Thomas Hildreth, James Lei Dr. George Walters, faculty adviser

***10:00 a.m. 101 Burke
High Speed Data Collection and Analysis*** Webco Industries Inc., sponsor

William Dunn, Ryan Kelly, Zachary Miller Dr. Mohammad Rasouli, faculty adviser

## 10:00 a.m. 102 BurkeHybrid VTOL Drone/Aircraft with Pivoting Wing and Advanced Avionics

General Anomaly Design LLC, sponsor Vance Farren, Bradley Cypher, Ian LoVerde Mr. Robin Panda, faculty adviser

***10:00 a.m. 206 Burke Part Tracking in Manufacturing*** SKF Aerospace, sponsor

Jacob Foglia, Zachary Neudorfer, Dylan Kube Dr. Sudarshan Nelatury, faculty adviser

## 10:30 a.m. 204 Burke

***K-12 Outreach Design Project***

Penn State Behrend K-12 Outreach, sponsor Kenneth Haylett, Matthew Smearcheck, Alexander Lee

Dr. Thomas Hemminger, faculty adviser

## 10:30 a.m. 205 Burke

***A Universal Human-Machine-Interface and an Expansion I/O Board for Various Power Converters*** Power Conversion Technologies Inc., sponsor

Maria Chis, Matthew Cefali, Eric Holman, Joseph Tomasko

Dr. Kyeiwaa Asare-Yeboah, faculty adviser

***11:00 a.m. 105 Burke Utility Solar Project*** Jamestown BPU, sponsor

Anthony Leithner, Evan Sherrieb, Burhaan Farah Dr. Mohammad Rasouli, faculty adviser

## 11:00 a.m. 201 Burke

***System to Assist Fork Truck Cargo Loading in Unimproved Terrain***

Penn State Applied Research Laboratory, sponsor Alyson Dybowski, Garrett Proctor, Richard Lucas Mr. Robin Panda, faculty adviser

***11:00 a.m. 205 Burke License Plate Recognition Device*** Pove X Edu Inc., sponsor

Chunlei Xing, Steven Frangione Dr. Tarek Elarabi, faculty adviser

#  **Electrical and Computer Engineering Technology**

## 8:00 a.m. 201 BurkeECET: Acceptance Test Machine for Stiffness Sensing System

LORD Corporation, sponsor

Eric Matteson, Samantha Muhhuku Mr. David Loker, faculty adviser

***8:30 a.m. 105 Burke Commercialize Ultrasonic Level Sensor*** FMC Technologies, sponsor

Amy Dewoody, Travis Roney

Mr. Stephen Strom, faculty adviser

## 9:00 a.m. 205 Burke

***Mobile Training System Design and Commission***

Process and Data Automation, sponsor William Hoover, Nikolay Otroda

Mr. Roger Kuntz, faculty adviser

***9:30 a.m. 205 Burke
Mold Cooling Machine Restart*** Process and Data Automation, sponsor Monte Defrances, David Gibbons

Mr. Roger Kuntz, faculty adviser

#  **Interdisciplinary Business with Engineering Studies**

## 8:00 a.m. 106 Burke

***B2B2Me***

Nolan Carll, sponsor

Stephen Denny, Oluseyi Petinrin, Joseph Schack Dr. Diane Parente, faculty adviser

## 8:00 a.m. 107 Burke

***Insurance Implications and Opportunities for 3D Printing***

Erie Insurance Group, sponsor

Seth Swasy, Nathan Ropelewski, Michael Rabb Dr. Diane Parente, faculty adviser

## 8:30 a.m. 106 Burke

***Phase II - Building a Technology Demonstrator That Will Assist Engagement of Fork Truck with Cargo Loads in Unimproved Terrain***

Penn State Applied Research Laboratory, sponsor Martin Long, McKenna Aleksivich, Zachary Smith Dr. Diane Parente, faculty adviser

***8:30 a.m. 107 Burke
Commercial Insurability and Medical Marijuana*** Erie Insurance Group, sponsor

Alexander Lyon, Robert Gorka, Kirk Dillen Dr. Diane Parente, faculty adviser

## 9:00 a.m. 106 Burke

***Edwin the Duck***

Pi Lab, sponsor

Sean Seavy, Matthew Shepherd, Mitchell Eberle, Joel Coppella,

Dr. Diane Parente, faculty adviser

## 9:00 a.m. 107 Burke

***The Sand Sherpa***

Matthew Parente, sponsor Raghad Ali, John Hill, Alex Bailey Dr. Diane Parente, faculty adviser

## 9:30 a.m. 106 Burke

***New Polyethylene Inventions***

Shell Global Solutions International, sponsor Patrick Stough, Brandon Yandrick, Kiley Ransbury Dr. Diane Parente, faculty adviser

## 9:30 a.m. 107 Burke

***Put A Ring On It!***

Matthew Parente, sponsor

Todd Zandier, Erica Cimato, Brock Wagner Dr. Diane Parente, faculty adviser

***10:00 a.m. 107 Burke Pultruded Carbon Fiber Products*** Lawrie Technology Inc., sponsor

Mitchell Buchna, Alexander Krysiak, Austin Montevecchio Dr. Diane Parente, faculty adviser

***10:30 a.m. 107 Burke Peanut Shell Press Board*** Metalcraft, sponsor

William Staniszewski, Sean Stcyr, Ryan Puchak, Benjamin Ropelewski

Dr. Diane Parente, faculty adviser

***11:00 a.m. 107 Burke Markets for Spinselect*** Modern Industries, sponsor

John Anderson, Samantha Winrick, Liam Duffy Dr. Diane Parente, faculty adviser

#  **Industrial Engineering**

***8:00 a.m. 103 Burke Machine Setup Time Reduction*** Acutec Precision Machining, sponsor

Jessica Hocsman, Daniel Obernauer, Garrett Webster Dr. Yuan-Han Huang, faculty adviser

***8:30 a.m. 103 Burke
Shop Floor Scheduling Optimization*** Acutec Precision Machining, sponsor

Mohamed Badawy, Zachary Puhala, Daniel Smith Dr. Faisal Aqlan, faculty adviser

## 8:30 a.m. 206 Burke Commutator Commercial Operations Optimization

The Electric Materials Company (TEMCO), sponsor Kyle Beckett, Brian Gerstel, Timothee Paluku

Dr. Omar Ashour, faculty adviser

## 9:00 a.m. 206 Burke

***Improving Operating Rooms Turnover Time at UPMC Hamot***

UPMC Hamot, sponsor

Anton Benedikt, Amanda Sayko, Bradley Tylenda Dr. Omar Ashour, faculty adviser

## 10:30 a.m. 202 Burke

***Organization of Furnace Build Components in Regards to Building Space Reduction***

Onex Inc., sponsor

Nicolas Cortes Mendoza, Corey Flesik, Ryan Markle Dr. Paul Lynch, faculty adviser

## 11:00 a.m. 202 Burke

***Achieving Lean Manufacturing Through TPM and 5S***

U.S. Bronze Foundry and Machine, sponsor

Adam Riddle, Howie Setyono, Amanda Vanbuskirk, Luke Sabljak

Dr. Paul Lynch, faculty adviser

#  **Mechanical Engineering**

## 8:00 a.m. 102 BurkeSmall Scale Inhibition of Potato Sprouting 1,4GROUP, sponsor

Ivan Erway, Brian Habas, Joseph Helbing, Cody Thomas Ms. Jill Johnson, faculty adviser

## 8:00 a.m. 104 Burke

***Novel Impeller Design***

Dresser-Rand, A Siemens Business, sponsor Ben Tilley, Michael Abata, Collin Randall Dr. William Lasher, faculty adviser

## 8:00 a.m. 203 Burke

***Continuous Bending Under Tension Fixture*** Penn State Behrend School of Engineering, sponsor Evan Boben, Kyle Johnston, Joshua Harrison, Adam Reay

Mr. Dean Lewis, faculty adviser

## 8:00 a.m. 206 Burke

***Part Feeder***

Tonnard Manufacturing Corp., sponsor

Bradley Abrahamson, Brian Byrge, Anthony Frazzini Dr. Chetan Nikhare, faculty adviser

## 8:30 a.m. 102 Burke

***Automated Defect Detection on 316 Stainless Steel Ferrules***

Parker Hannifin Corp., sponsor

Dylan Hascher, Kevin Freeman, Anthony Minneci, Joshua Werner

Dr. John T. Roth, faculty adviser

***8:30 a.m. 104 Burke Centrifugal Compressor Assembly*** Dresser-Rand, A Siemens Business, sponsor

Jeromee Geibel, Alexandra Laffey, John Lippert, Brian Etzel

Dr. Adam Hollinger, faculty adviser

## 8:30 a.m. 203 Burke

***Design a Disability Simulation Glove***

Penn State Behrend School of Engineering, sponsor Christian Goodhue, Justin Rohrer, Scott Repenning, Zachary Truitt

Dr. Barukyah Shaparenko, faculty adviser

***9:00 a.m. 103 Burke
5 Axis Mill Lights Out Machining*** Acutec Precision Machining, sponsor

Jessica Wachowiak, Ryan Dombrosky, Dylan Cimbala, Tyler Kasunich

Dr. John T. Roth, faculty adviser

## 9:00 a.m. 105 Burke

***Crank Shaft PD Meter***

FMC Technologies, sponsor

Denis Lang, Colin Dalrymple, Jacob Wyllie, Alex Russell Dr. Jun Zhou, faculty adviser

## 9:00 a.m. 201 Burke

***LORD Corporation Elastomeric Rod End Demonstrator***

LORD Corporation, sponsor

Zack Leicht, Rob Prokop, Sam Olearchick, Nathan Law Dr. David Beevers, faculty adviser

***9:30 a.m. 103 Burke
ME1: Chainsaw Multi-tool Attachments and Jig*** Advanced Testing Services, sponsor

Tyler Katich, Robert Kean, Andrew Litzinger Dr. Yustianto Tjiptowidjojo, faculty adviser

## 9:30 a.m. 104 BurkeEvaluate Stainless Steel Spring Bolts on the 76 Feeder Line

Eriez Magnetics, sponsor

Gabriel Laurent, William Schmid, Scott Romanko Dr. Chetan Nikhare, faculty adviser

## 9:30 a.m. 201 Burke

***Magnetic Helicopter Lead-lag Damper***

LORD Corporation, sponsor

Laurentiu Petrut, Lucas Mattson, Hayden Seibert, Brandon Bachner

Dr. Yi (Elisa) Wu, faculty adviser

***9:30 a.m. 206 Burke Torque Limiting Device*** Swanson-Erie Corp., sponsor

Jonathan Watson, Mitchell Gahr, Jamen Harter, Matthew Williams

Dr. Shraddha Sangelkar, faculty adviser

***10:00 a.m. 103 Burke
ME2: Chainsaw Multi-tool Attachments and Jig*** Advanced Testing Services, sponsor

Nicholas Kost, Tyler Milko, Nathan Miller, Sean Sehman

Dr. Yi (Elisa) Wu, faculty adviser

***10:00 a.m. 104 Burke***
Optimize Hanger Plate Locations and Shaft
Deflections on Wet Drum Magnet Circuits
***Eriez Magnetics, sponsor***

Jacob Wolf, Austin Slupe, Zachary Krivda Dr. Amir Khalilollahi, faculty adviser

## 10:00 a.m. 201 Burke

***Furnace Flue Model***

Onex Inc., sponsor

Maura Costa, Julia Davis, Joseph Lombardi, Tyler Loughran

Ms. Jill Johnson, faculty adviser

#  **Mechanical Engineering, CONTINUED**

## 10:30 a.m. 102 BurkeHybrid VTOL Drone/Aircraft with Pivoting Propellers

General Anomaly Design LLC, sponsor Mitchel Meszaros, Aaron Ray, Aaron Peters, Aaron Graham

Mr. Brian Lani, faculty adviser

***10:30 a.m. 103 Burke Stress Relief EAM Machine*** Anderal Technologies, sponsor

Trey Loomis, Lourdez Medina, Michael Rahe, Kenneth Rihel

Mr. Dean Lewis, faculty adviser

## 10:30 a.m. 206 Burke

***Polymer Cage Pocket Fatigue Test Equipment***

SKF Aerospace, sponsor

James Tomcho, Timothy Jesteadt, Rachael Sheridan, Seth Beatty

Dr. Charlotte de Vries, faculty adviser

***11:00 a.m. 102 Burke Fixture Lift Mechanism*** Tech Cast LLC, sponsor

Tyler Rigby, Joshua Faust, Joshua Hugo, James Jacobs Mr. Brian Lani, faculty adviser

***11:00 a.m. 103 Burke EAM Stamping Demonstrator*** Anderal Technologies, sponsor

Anthony Catalano, Daniel Brooks, Matthew Cottage, Sean Pishcke

Dr. Shraddha Sangelkar, faculty adviser

***11:00 a.m. 204 Burke Supermileage Drivetrain Optimization*** Penn State Behrend SAE Club, sponsor

Seth Tau, Mary Beth Burbules, Rachel Gorski, Jacob Elder Dr. Amir Danesh-Yazdi, faculty adviser

## 11:00 a.m. 206 Burke

***Wear Test Equipment for Polymer Cages***

SKF Aerospace, sponsor

Patrick Trumbetta, Douglas Metcalfe, Jordan Yost, Jonathan Brennan

Dr. Amir Khalilollahi, faculty adviser

#  **Mechanical Engineering Technology**

## 8:30 a.m. 201 BurkeMET: Acceptance Test Machine for Stiffness Sensing System

LORD Corporation, sponsor

Brian Lowery, Wesley Rea, Bikash Subba Mr. Fred Nitterright, faculty adviser

## 9:00 a.m. 102 Burke

***MET: Mobile 4x4 Robotic Platform Controlled by R/C, Mobile and Autonomous Mode***

Chad Hensley, sponsor Jacob Golias, Sarah Green

Mr. Michael Lobaugh, faculty adviser

## 9:00 a.m. 104 Burke

***Advanced Fillet Welding System for Large Diameter Low-flow Coefficient Impellers*** Dresser-Rand, A Siemens Business, sponsor Ryan Ciuca, Brad Dranko, William Edwards

Dr. Nancy Study, faculty adviser

## 9:00 a.m. 203 Burke

***Wood-fired Oven for Guatemala Roof Panels*** Penn State Behrend School of Engineering, sponsor Bryan Boarts, Joseph Shoop, Justin Sommers

Mr. Robert Edwards, faculty adviser

***10:00 a.m. 205 Burke Soaking Pit Furnace Heating Time*** SECO/Warwick, sponsor

Luke Gigliotti, Aaron Gibbs, Ian Sweeney Dr. Liyong Sun, faculty adviser

## 10:30 a.m. 104 Burke

***Design a Bolt-on Mounting Bar for Vibratory Feeder Trays***

Eriez Magnetics, sponsor

Casey Getic, Brandon Goss, Michael Pisciottano Mr. Shannon Sweeney, faculty adviser

## 11:00 a.m. 104 Burke

***Evaluate Critical Speed of Eddy Current Rotor Based on Manufacturing Tolerance Allowances and Assembly Methods***

Eriez Magnetics, sponsor

Benjamin Babcock, Philip Currier, Tyler Raco Mr. David Johnson, faculty adviser

#  **Plastics Engineering Technology**

## 8:00 a.m. 101 Burke

***Design and Development of Modular Tooling for Shrinkage and Warpage Studies***

Penn State Behrend School of Engineering, sponsor Carson Lewis, Myles Mike

Mr. Bradley Johnson, faculty adviser

## 8:00 a.m. 204 Burke

***Effect of Melt Blending vs. Single Molecular Resins on Material Properties***

Penn State Behrend School of Engineering, sponsor Patricia Bogniak, Rachel Oelbracht

Dr. Gary Smith, faculty adviser

***8:30 a.m. 101 Burke Crystallinity Modification of PE and PP*** ExxonMobil Chemical Co., sponsor

Michael Morando, Matthew Grafton Dr. Gary Smith, faculty adviser

***8:30 a.m. 204 Burke
24” High Capacity Trench Design*** Zurn Industries LLC, sponsor

Jeremy Gray, Lindsey Gatesman Mr. Jason Williams, faculty adviser

***9:00 a.m. 101 Burke
Mold Rheometer Design and Development*** Penn State Behrend School of Engineering, sponsor Benjamin March, Eric Santini

Mr. Bradley Johnson, faculty adviser

## 9:00 a.m. 204 Burke

***Evaluation of the Interaction Between Filler Particle Size and Specific Gravity***

PolyOne, sponsor

Lucas McMurtrie, Jason Suess Mr. Brian Young, faculty adviser

## 9:30 a.m. 101 Burke Mechanical Characterization of Molded Morphologies

Penn State Behrend School of Engineering, sponsor Matthew Oravec, Nikki Morganstern

Mr. Jason Williams, faculty adviser

## 9:30 a.m. 203 BurkeEvaluation and Characterization of Ski Binding Release

Penn State Behrend School of Engineering, sponsor Rachel Kaschauer, Zachary May

Mr. Jonathan Meckley, faculty adviser

## 9:30 a.m. 204 Burke

***Evaluation of Breakage in Long Glass Fiber-filled Material Based on Core Geometry***

PolyOne, sponsor

Aaron Matta, Matthew Vrana Mr. Brian Young, faculty adviser

## 10:00 a.m. 203 Burke

***Design of Process Setting Tool for New 3D Printer*** Penn State Behrend School of Engineering, sponsor Nicholas Sheasley, Ciara Cox

Mr. Jason Williams, faculty adviser

## 10:00 a.m. 204 BurkeEvaluating Infill Ratio in Printed Molds to Optimize Wall Thickness Variation

Penn State Behrend School of Engineering, sponsor Matthew Boyer, Jesse Schneider

Mr. Brian Young, faculty adviser

## 10:30 a.m. 101 Burke

***Conformal Cooling in Aluminum Tooling***

Penn State Behrend School of Engineering, sponsor Sara Allgeier, Beau Bacho

Mr. Jonathan Meckley, faculty adviser

## 10:30 a.m. 203 Burke

***3D Printed Ski Tips***

Penn State Behrend School of Engineering, sponsor Kyle Radack, Carl Shaw

Dr. Alicyn Rhoades, faculty adviser

## 11:00 a.m. 101 BurkeBlow Molding Die Verification of Parison Sag and Swell

Penn State Behrend School of Engineering, sponsor Jonathan Turfitt, Steven Roll

Mr. Jonathan Meckley, faculty adviser

***11:00 a.m. 203 Burke Illumination Studies with LED Lighting*** Whirley DrinkWorks, sponsor

Garrett Vanderhoof, Brayden Cyphert Dr. Alicyn Rhoades, faculty adviser

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