

RICHARD J. FASENMYER

ENGINEERING DESIGN CONFERENCE

SATURDAY, APRIL 30, 2022



NASA PSYCHE MISSION
OUTSTANDING CAPSTONE
PROJECT SPONSOR



SCHEDULE OF EVENTS

7:30 a.m.
Registration
Second Floor, Burke

8:00-11:30 a.m.
Senior Presentations
Half-hour sessions including Q&A

11:45 a.m.-12:15 p.m.
Keynote Speaker Nicole Gailey
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. Photos will be taken in this order: ME, PLET, MET, IE, IBE, ECET, ECE, CSSE.

Reception

After the awards, please join us in Clark Café for an ice cream celebration!

KEYNOTE SPEAKER



Nicole Gailey '10
Director, R&D and Innovation PMO Americas
Trivium Packaging

Nicole Gailey graduated from Penn State Behrend in 2010 with a degree in Mechanical Engineering and a minor in Operations and Supply Chain Management. She continued her education by earning a master's degree in Engineering Management and is currently pursuing her doctorate in Organizational Learning and Leadership at Gannon University.

Currently, she serves as the Director of R&D and Innovation PMO Americas at Trivium Packaging, focusing on the next generation of metal packaging solutions. Gailey and her team exhibit innovation in discovery, evaluation, and design of new technologies, materials, and graphics, which can have significant impacts on new products, improved products, and further product differentiation. Prior to working in the packaging industry, Gailey held a variety of roles in engineering design, measurement and integrity, technical project management, operational excellence, and quality at TechnipFMC (formerly FMC Technologies).

Gailey is also an active participant and instructor for the K-12 Outreach Program, specifically Penn State Behrend's Women in Engineering Day. She is also involved in the College for Kids Summer Enrichment Program. She is an avid soccer player and in 2019 was inducted into the Penn State Behrend Athletic Hall of Fame. She and her husband, Brent, have four children: Maverick, Ryker, Weylyn and Atlas.



PennState
Behrend

RICHARD J. FASENMYER ENGINEERING DESIGN CONFERENCE

SENIOR PROJECTS

Computer Science and Software Engineering

8:00 a.m.

Math Musicals Web Games for Children—103 Burke

Larson Texts Inc., sponsor
Tyler Bastian, Kelly Gottschalk, Christopher Harris, Jarod Bowers
Dr. Ziyun Huang, faculty adviser

8:00 a.m.

Psyche Web-Based Game—102 Burke

NASA Psyche Mission, sponsor
Nicklas Kotte, Thomas Foos, Tyler Erdos, Matthew Graham
Melanie Ford, faculty adviser

8:00 a.m.

Quiz Management System—206 Burke

Penn State Behrend, sponsor
Ryan Alloway, Shawn Baldwin, Robert Rodgers,
Derrick Thompson
Dr. Jalaa Hoblos, faculty adviser

8:30 a.m.

WebXR for Public Engagement—102 Burke

NASA Psyche Mission, sponsor
David Yakupkovic, Joshua Devinney, Alexander Reams,
Donovan Myers
Dr. Chen Cao, faculty adviser

8:30 a.m.

**Building a Question Answering System Using
Tweets—206 Burke**

Penn State Behrend, sponsor
Steven Hartleb, Zachary Gray, Rusyibihere Debernard,
Kenneth Brown
Teck Meng Liaw, faculty adviser

9:00 a.m.

CAN Bus Analysis—103 Burke

Northrop Grumman Mission Systems, sponsor
Ethan Baxter, Trevor Knox, Pierce Thompson, Keegan Peaco
Dr. Jalaa Hoblos, faculty adviser

9:00 a.m.

LionChat—205 Burke

Penn State Behrend, sponsor
Kevin Wang, William Hemminger, Jacob Karabin
Dr. Zhifeng Xiao, faculty adviser

9:00 a.m.

Hollow Cathode Visualization—102 Burke

NASA Psyche Mission, sponsor
Sarah Lengel, Jack Blich, Jake Smith, Matthew Brazel,
Huy Tran
Dr. Ziyun Huang, faculty adviser

9:30 a.m.

Radar/Video Speed Trap System—103 Burke

Northrop Grumman Corporation, sponsor
William Ghofulpo, Cory Rearick, Simon Gedzul,
Benjamin Moorehead
Dr. Ahmed Sammoud, faculty adviser

9:30 a.m.

Thruster Diagnostics Visualization—102 Burke

NASA Psyche Mission, sponsor
Parker Curtis, Hunter Hoffman, Nicholas Kazousky,
Ryan MacCagnan
Thomas Rossi, faculty adviser

9:30 a.m.

Senior Design Management System—206 Burke

Penn State Behrend, sponsor
Stephen Byron, Jakob Konecni, Nadim Kayali Lopez,
Imaer Al Tamimi
Melanie Ford, faculty adviser

9:30 a.m.

**Statistical Analysis of Seasonal Solar Power
Generation—105 Burke**

Clarence Technologies, sponsor
Spencer Dhondt, Rebecca Abraham, Luke Leiter,
Caleb Parrish
Teck Meng Liaw, faculty adviser

10:00 a.m.

**Fever and Mask Mandate Violation Detection
System—206 Burke**

Penn State Behrend, sponsor
Matthew Karenbauer, Eric Lachendro, Caralyn Harben,
Avery Booth
Dr. Zhifeng Xiao, faculty adviser

Computer Science and Software Engineering (continued)

10:00 a.m.

Statistical Analysis of Cellular Signal Strength—105 Burke

Clarience Technologies, sponsor
Bryant Niederriter, Ryan Kruszewski, Andrew Kyffin,
Jacob Watson
Dr. Chen Cao, faculty adviser

10:30 a.m.

Statistical Analysis of Customer Support Information—105 Burke

Clarience Technologies, sponsor
Shaurya Aryan, Siddhartha Reddy Regatte,
Mohamed Alhmoudi, Mikayla Mulford
Thomas Rossi, faculty adviser

11:00 a.m.

Materials Analysis in Python—202 Burke

Penn State Behrend, sponsor
Aymen Saidi, Michael Abboud, Anthony Ernst,
Chimere Onyegbado, Davaasuren Dashdavaa
Dr. Jalaa Hoblos, faculty adviser

Electrical Engineering and Computer Engineering

8:30 a.m.

Math Musicals Web Games for Children—103 Burke

Larson Texts Inc., sponsor
Dustin Bierman, Caleb Ketterer, Amanda Parker
Dr. Sudarshan Nelatury, faculty adviser

9:00 a.m.

Non-Invasive Blood Glucose Measurement and Monitoring—207 Burke

Penn State Behrend, sponsor
Ronen Adany, Adam Cary, Michael Decasper, Alastair Knott
Dr. Fethi Belkhouche, faculty adviser

9:00 a.m.

Freight Configurator and Visual Management Device—105 Burke

Clarience Technologies, sponsor
Nathan Bolano, Chanler Polisky, Siddharth Ravi, Darrel Romba
Dr. Myung Cho, faculty adviser

9:30 a.m.

Robotic Arm with Vision System for Pick and Place Operation—207 Burke

Penn State Behrend, sponsor
Zachary Bowen, Quinn Geist, Zheng Zeng
Fethi Belkhouche, faculty adviser

10:00 a.m.

Robo-Drummer Physical Metronome—106 Burke

Penn State Behrend/Dr. Joel Hunt, sponsor
Alison Huffman, Kushal Kharel, Katrina Stevenson
Dr. Myung Cho, faculty adviser

10:00 a.m.

Radar and Video Speed Detector—103 Burke

Northrop Grumman Corporation, sponsor
Yelizaveta Gadirova, Steven Horvath, Alexandros Sfikas,
Kaveesha Siribaddana
Dr. Sudarshan Nelatury, faculty adviser

10:00 a.m.

The Quad Copter—207 Burke

Penn State Behrend, sponsor
Colton Eisenreich, Angelo Fatica, Vishal Mansuria,
Sean McCray
Dr. Mohammad Rasouli, faculty adviser

10:30 a.m.

PLC Controlled Robotic Pick and Place Arm with Vision System—207 Burke

Penn State Behrend, sponsor
Dara Eisler, Bryce McClafferty, Joshua Waite
Dr. Kyeiwaa Asare-Yeboah, faculty adviser

11:00 a.m.

VAR Rover (EE/CE Team)—106 Burke

Penn State Behrend, sponsor
Chadwick Kypta, Caleb McDowell, Zachery Morgan,
Mason Nolan
Dr. Sudarshan Nelatury, faculty adviser

11:00 a.m.

Low Profile Camera System for SMV Driver—102 Burke

Penn State Behrend, sponsor
Andrew Breier, Anthony Mazzocco, Blake Pahler
Dr. Myung Cho, faculty adviser

Electrical and Computer Engineering Technology

8:00 a.m.

Remote Monitoring for Liquid Flow Meters—105 Burke

Penn State Applied Research Laboratory, sponsor
Fidel Bahati, Ryan Gorka, Devin Rizzo
David Loker, faculty adviser

8:30 a.m.

Freight Configurator and Visual Management Device—105 Burke

Clarience Technologies, sponsor
Alexander John, Noah Ongley, Zachary Shick
Dr. Hussein Abdeltawab, faculty adviser

8:30 a.m.

Multi-Bio Sensor for Grape Clusters—002 Burke

Penn State LERGREC, sponsor
Joseph Aiello, Anthony Grassi, Andrew Josephson
Dr. Hussin Ketout, faculty adviser

10:00 a.m.

PLC Controlled Robotic Arm with Vision System—107 Burke

Penn State Behrend, sponsor
Jacob Cekovsky, Christian Corby, Randall Gillotti
Dr. Hussein Abdeltawab, faculty adviser

10:30 a.m.

Automated PCB Card Backplane Failure Detection System—103 Burke

Wabtec, sponsor
Andrew Smoulder, Eric Warren
David Loker, faculty adviser

11:00 a.m.

IGBT Smart Gate Driver Automated Download Station—103 Burke

Wabtec, sponsor
Michael Argiros, Gregory Nicolina
Dr. Hussin Ketout, faculty adviser

Interdisciplinary Business with Engineering Studies

8:00 a.m.

Flow Meter Broken Blade Detection—001 Burke

Advanced Research Laboratory, sponsor
Dominic Nuzzo, Michael Sharrer, Abigail Zeigler
Dr. Jeffrey Vaitekunas and Carol Putman, faculty advisers

8:30 a.m.

Powder Coating Process Improvement—001 Burke

Advanced Finishing USA, sponsor
Alexis Federici, Luke Maurer, Nicholas Randazzo
Carol Putman and Dr. Jeffrey Vaitekunas, faculty advisers

9:00 a.m.

Anti-Microbial Coatings—001 Burke

Advanced Finishing USA, sponsor
Isaac Elkin, Alen Kalabic, Daniel Mattock, Isabelle Newara
Carol Putman and Dr. Jeffrey Vaitekunas, faculty advisers

9:30 a.m.

Refillable/Reusable Ice Cream Containers—001 Burke

American Chemistry Council, sponsor
James Lobdell, Haley Shaw, Jacob Williams
Dr. Jeffrey Vaitekunas and Carol Putman, faculty advisers

10:00 a.m.

Modern Shock—001 Burke

Modern Industries, sponsor
Alyson Edwards, Katelyn Harker, Nicholas McCall,
Brandon Laine
Dr. Jeffrey Vaitekunas and Carol Putman, faculty advisers

10:30 a.m.

Angel Investment Platform for Funding Startups—001 Burke

Matt MacBeth, sponsor
Brian Burns, Jake Gardner, Caleb Swecker
Carol Putman and Dr. Jeffrey Vaitekunas, faculty advisers

11:00 a.m.

Erie Insurance APP Redesign—001 Burke

Erie Insurance, sponsor
Maria Cuccaro, Cody Schnur, Caroline Upham
Carol Putman and Dr. Jeffrey Vaitekunas, faculty advisers

Industrial Engineering

8:00 a.m.

Smart Manufacturing Demonstration—104 Burke

Penn State Behrend, sponsor
Brianna DiBlasi, Dennis Gorban, Sebastian Valentin,
Brayden Wilson
Dr. Omar Ashour, faculty adviser

8:30 a.m.

Improved Process Instructions—104 Burke

Urick Ductile Solutions, sponsor
Anh Dang, Prannay Dutt, Robert Hemminger, Ashley Seamon
Dr. Paul Lynch, faculty adviser

9:00 a.m.

**Whirley Drink Works Cup Assembly Line
Improvements—104 Burke**

Whirley Industries, sponsor
Quinlan Barnes, Laila Barrada, Ryan Ford, Ty Knarr
Dr. Yohannes Haile, faculty adviser

9:30 a.m.

**Environmental Modifications of the BNI Locker
Room—104 Burke**

Barber National Institute, sponsor
Zoe Mouchantaf, Tyler Simmons, Sean Steelman
Dr. Yuan-Han Huang, faculty adviser

10:00 a.m.

**Optimizing Hanging Configurations for Powder Coating
Process—104 Burke**

Advanced Finishing USA, sponsor
Cheyenne Danneker, Kira Nicholson, Soumyadeep Paul,
Dmitriy Potapchuk
Dr. Hsin-Li Chan, faculty adviser

Mechanical Engineering

8:00 a.m.

Retrofit Research Plot Sprayer—002 Burke

Penn State LERGREC, sponsor
Mack Hanley, Tyler Huff, Isaac Stouffer, Trenton Stouffer
Dr. Jun Zhou, faculty adviser

8:30 a.m.

**Hydraulic Shielding on Aggregate Chip
Spreader—107 Burke**

Frank Martuccio Asphalt and Paving, sponsor
James Connolly, Trevor Holmes, Liam Watterson
Dr. Barukyah Shaparenko, faculty adviser

8:30 a.m.

High Pressure Grate-In-Housing—106 Burke

Eriez Manufacturing Company, sponsor
Nicholas Bentz, Jack Fantoni, Lukas Panagiotakis,
Matthew Slusser
Dr. Jiawei Gong, faculty adviser

9:00 a.m.

Independent Valve Control—107 Burke

Penn State Behrend, sponsor
Justin LaBarge, Sawyer Rehak, Carson Vath, Evan Yusavage
Dr. Barukyah Shaparenko, faculty adviser

9:00 a.m.

**Evaluate Bearing Stiffness for Eddy Current
Rotors—106 Burke**

Eriez Manufacturing Company, sponsor
Isaac Caretti, Jennifer Gustafson, Calvin Jiang, Matthew Krull
Dr. Yi Wu, faculty adviser

9:00 a.m.

Waterfall System for Invasive Round Goby—203 Burke

Penn State Behrend, sponsor
Parker Boyd, Matthew Karsh, Rodey Merritt, Jackson Stokes
Dr. Xiawa Wu, faculty adviser

9:30 a.m.

Medical Scanner Noise Analysis—002 Burke

SKF, sponsor
Sean Abraham, Jason Angelo, Matthew Romesberg,
Nicholas Scarpitti
Dr. Hamid Sanei, faculty adviser

9:30 a.m.

Remote Controlled Weld Inspection Device—203 Burke

Westinghouse Electric Company, sponsor
Alyssa Ferianc, Kara Peterson, Ashley Taylor, Paul Wossidlo
Dr. Xiawa Wu, faculty adviser

9:30 a.m.

Driver Cooling System for SMV—107 Burke

Penn State Behrend, sponsor
Zachery Deabenderfer, Alysa Kelly, Morgan Lynch,
Benjamin Rolland
Peter Ingram, faculty adviser

10:00 a.m.

Electric Vehicle Drivetrain Efficiency—002 Burke

SKF, sponsor
Nick Gavio, Devan Marhefka, Yash Navdiya, Alexander Pol
Dr. Jiawei Gong, faculty adviser

Mechanical Engineering (continued)

10:00 a.m.

Landing System for Uncertain Terrain—102 Burke

NASA Psyche Mission, sponsor
James Perkins, Frederick Parker, Scott Coughenour
Brian Lani, faculty adviser

10:30 a.m.

Roof Drain Control-Flo Design—203 Burke

Zurn Industries, LLC, sponsor
Owen Fleming, Ryan Hutchinson, Noah Reisenauer,
Tanner Zang
Dr. Jun Zhou, faculty adviser

10:30 a.m.

Ground Source Heat Pump with Annual Solar Heat Storage—107 Burke

Sun Geothermal, sponsor
Benjamin Bowen, Jacob Lindow, Logan Long, John Schubert
Dr. David Beevers, faculty adviser

10:30 a.m.

Optimization of Spin Welding Process for Plastic Part Joining—104 Burke

Whirley Industries, sponsor
Ryan Harmon, Daniel Johnson, Ryan Richardson,
Joshua Zencik
Dean Lewis, faculty adviser

10:30 a.m.

Returning Samples of Hypothesized Surfaces—102 Burke

NASA Psyche Mission, sponsor
Jacob Sampsell, Colton Hervatin, Easton Hooks,
Thomas Zbezinski
Dr. Charlotte de Vries, faculty adviser

10:30 a.m.

VAR Rover (ME Team)—106 Burke

Penn State Behrend, sponsor
Katelyn Conroe, Mitchell Frasca, Hunter Kellar,
Olena Omelchenko
Dr. Baiou Shi, faculty adviser

11:00 a.m.

Wind Driven Rain Louver Design—104 Burke

DMI Companies, sponsor
Kaylee Karaban, Daniel Limpert, Lexie Palo, Zachary Wortman
Dean Lewis, faculty adviser

11:00 a.m.

Liquid Flow Meters Air-Entrainment Correction—105 Burke

Penn State Applied Research Laboratory, sponsor
Gage Agnew, Keaton Bailey, James Dugan, Jeremy Fischer
Dr. David Beevers, faculty adviser

Mechanical Engineering Technology

8:00 a.m.

Improved Magnetic Tube Scraper Assembly—106 Burke

Eriez Manufacturing Company, sponsor
Kameron Bott, Hunter Jamison, Adam Podlaszewski,
John Wasiulewski
Ed Evans, faculty adviser

8:30 a.m.

Amphibian-Proof Stormwater Drain Covers—205 Burke

Penn State Behrend, sponsor
Jack Hermann, Hunter Homic, Daniel Rosenquest
Dr. Steven Nozaki, faculty adviser

9:00 a.m.

Fluidlastic Damper Bushing Test Machine—202 Burke

Parker LORD Corporation, sponsor
Gage Niedermeyer, Spencer Sorenson, Alec Wienczkowski
Fred Nitterright and Dr. Feng Qian, faculty advisers

9:00 a.m.

Design a Door Closer with Security Device—002 Burke

Modern Industries Inc., sponsor
Alexander Beech, Joe Goldstein, Dinesh Khatiwoda,
Jared Kindland
Phil Jones, faculty adviser

9:00 a.m.

AmeriDeck Dump Deck Redesign—205 Burke

Switch-N-Go, sponsor
David Foster, Levi Hendrickson, Jerome Nacey
Dr. Ihab Ragai, faculty adviser

9:30 a.m.

Heat Transfer Test Device—202 Burke

Penn State Behrend, sponsor
Devon Brace, Matthew Fassinger, Brenda Greenthaner
Robert Edwards, faculty adviser

Mechanical Engineering Technology (continued)

9:30 a.m.

75B High Deflection Vibratory Feeder Tray—106 Burke

Eriez Manufacturing Company, sponsor
Michael Borza, Asmir Hodzic
Shannon Sweeney, faculty adviser

10:00 a.m.

Accessible Shelving for Books—202 Burke

Erie County Public Library, sponsor
Kaylin Grant, Mahesh Pokhrel, Wesley Smith
Dr. Nancy Study, faculty adviser

10:30 a.m.

Fluidlastic Damper Tubeform Leak Test Stand—202 Burke

Parker LORD Corporation, sponsor
Jackson Brining, Nathan Lewis, Kenneth McWilliams,
Benjamin Wright
Dr. Liyong Sun and Adam Wielobob, faculty advisers

Plastics Engineering Technology

8:00 a.m.

Medical Scanner Noise Dampening—204 Burke

SKF USA, sponsor
Scott Borman, Justin McClafferty
Jason Williams, faculty adviser

8:00 a.m.

**Injection Molding Conductive/Graphene PVC
Plastisol—203 Burke**

Plastic Innovations & Technologies LLC, sponsor
Mason Borowicz, Colin Zeyfang, Marti Mandella
Dr. Samy Madbouly, faculty adviser

8:30 a.m.

**Plastics as Reusables: Reducing Single-Use
Packaging—204 Burke**

Americas Styrenics LLC, sponsor
Rebecca Olanrewaju, Zac Cellucci
Jason Williams, faculty adviser

8:30 a.m.

**Design and Testing of Additively Manufactured Conformally
Cooled Cores—203 Burke**

Plastek, sponsor
Michael Gibilterra, Ethan Ravotti, Jovan Heusser
Brian Young, faculty adviser

9:00 a.m.

Cold Weather Pickleball Ball—204 Burke

GAMMA Sports, sponsor
Amy Nolte, David Peterson, Tristan Grimm
Dr. Gamini Mendis, faculty adviser

9:30 a.m.

**Influence of Residence Time on Plastic Part
Performance—204 Burke**

SPE IMD, sponsor
Jake Hartmann, Dominic DeBone, Dan Divecchio
Brad Johnson, faculty adviser

10:00 a.m.

**Reducing Stress Concentrations, Plastic Part
Design—204 Burke**

SPE IMD, sponsor
Zachary Morton, Mara Donofrio, Hannah Duncan
Jon Meckley, faculty adviser

10:00 a.m.

**Role of Fiber Cross-Section on MFG and
Performance—203 Burke**

The Madison Group, sponsor
William Reig, Kaitlyn Nicholas, Zackery Trim
Dr. Gamini Mendis, faculty adviser

10:30 a.m.

Investigation of 3D Metals Printing for Molding—204 Burke

Plastikos Inc., sponsor
Cole Ruffo, Cole Wolfe
Jon Meckley, faculty adviser

11:00 a.m.

**Study of Frozen Layer Development with an iMFLUX
Process—204 Burke**

iMFLUX, sponsor
Noah Sekerski, Tyler Zellers, Nicholas Johnson
Brian Young, faculty adviser

2022 CAPSTONE PROJECT SPONSORS

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- Frank Martuccio Asphalt and Paving
- GAMMA Sports
- Joel Hunt, Ph.D.
- iMFLUX
- Larson Texts Inc.
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- Modern Industries
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- Sun Geothermal
- Urick Ductile Solutions
- Wabtec
- Westinghouse Electric Company
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NASA Psyche Mission

2022 Outstanding Capstone Project Sponsor

NASA's Psyche Mission, launching this year, will explore a metal-rich asteroid between Mars and Jupiter. The mission is working to foster the next generation of explorers through capstone projects at universities across the country.



Truck-Lite

2020 Outstanding Capstone Project Sponsor*

Truck-Lite, a Clariance Technologies company headquartered in Falconer, New York, is a leading producer of lighting, wiring harnesses, turn signals and safety accessories for truck, trailer, off-road, and commercial vehicle industries.



**Truck-Lite was the Outstanding Sponsor for the 2020 event, which was canceled because of the pandemic*

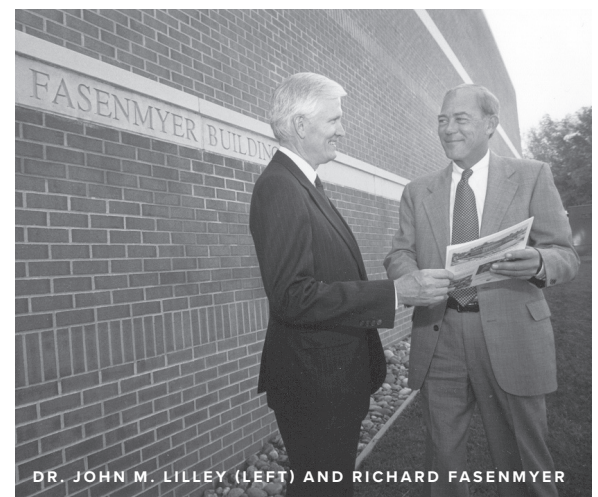
A BRIEF HISTORY OF THE RICHARD J. FASENMYER ENGINEERING DESIGN CONFERENCE

The Richard J. Fasenmyer Conference showcases the results of yearlong 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.

The first public presentation of senior design projects at Behrend took place on April 22, 1995, in Hammermill and Fasenmyer buildings on the west end of campus. Seventy-nine students participated, presenting thirty-one projects.

Since then, the annual presentation has grown: To date, nearly 5,500 students have presented more than 1,320 projects.

In 2005, the conference was named to honor the legacy of Richard J. Fasenmyer '69, a longtime supporter of Penn State Behrend's School of Engineering. An Alumni Fellow and Distinguished Alumnus of the University, Dick Fasenmyer was the first Penn State Behrend graduate to donate \$1 million to the college.



DR. JOHN M. LILLEY (LEFT) AND RICHARD FASENMYER