2013 Showcase Winners

Biomedical/Mechanical Engineering:
1st Place:
11 Hip Continuous Passive Motion Device
   Students: Nick Black, BME; Meagan Ita, BME; Andrew Turner, ME; Beth Schlegel, ME; Michael Vignos, BME
   Faculty Advisor(s): Dr. Mark Ruegsegger, Dr. David Lee, Dr. John DeWitt, PT, AT, SCS
   Industry Sponsor: Ohio State Biomedical Engineering
   Industry Contact(s): Dr. Mark Ruegsegger, Dr. David Lee, Dr. John DeWitt, PT, AT, SCS

2nd Place:
21 Trunk Assistant
   Students: Jared Collier, ME; Justin Mesick, ME; Rachael Meyer, ME; Cam Rasey, ME; Eric Ricciardi, ME
   Faculty Advisor(s): Dr. Mark Ruegsegger, Dr. David Lee, Dr. John DeWitt, PT, AT, SCS
   Industry Sponsor: The Ohio State University
   Industry Contact(s): Dr. Mark Ruegsegger, Dr. David Lee, Dr. John DeWitt, PT, AT, SCS

Chemical/Biomolecular Engineering:
1st Place:
30 Low Cost Solar Powered Refrigeration for Storing Antiretroviral Drugs Used in the Treatment of HIV Infection in Botswana
   Students: Garrett Price, CBE; Kristi Olesik, CBE; Lucas McBride, CBE; Lianwan Huang, CBE
   Faculty Advisor(s): Dr. David Tomasko
   Industry Sponsor: The Ohio State University
   Industry Contact(s): Dr. Michael Paulaitis

2nd Place:
28 Fumigation of Psyllium Husks via Methyl Bromide
   Students: Zach Adams, CBE; Alex Woll, CBE; Zach Ballantyne, CBE; Adam Clifford, CBE; Humaid Alghassani, CBE
   Faculty Advisor(s): Dr. David Tomasko
   Industry Sponsor: Procter & Gamble
   Industry Contact(s): Steve Cammarn, Matt Kaczanowski

Civil Engineering:
1st Place:
40 Student Housing Tower Framing Study
   Students: Andrew Gyde, CE; Alejandra Chock, CE; Tremayne Mushagahamn, CE; Mike Micklewright, CE
   Faculty Advisor(s): Dr. John George, Dr. William Wolfe
   Industry Sponsor: N/A
   Industry Contact(s): N/A

Computer Science Engineering:
1st Place:
2 Realm of Kaodith
   Students: Andrew Buelow, CIS; Mario Carneiro, CIS; Kyle Donovan, CIS; Sam Gutentag, CIS; Stephen Hara, CSE
   Faculty Advisor(s): Roger Crawfis
   Industry Sponsor: The Ohio State University
   Industry Contact(s): Roger Crawfis

1st Place:
48 3D Motion Capture
   Students: Jason Kao, CSE; Kevin David, CSE; James Sosan, CSE; Depak Kumar, CSE; Kyle Albert, CSE
   Faculty Advisor(s): Dr. Igor Malkiman
   Industry Sponsor: David Zimbeck
   Industry Contact(s): David Zimbeck

1st Place:
52 Inter-building Guidance System
Students: David Burl, CSE; Shao Zheng, CSE; Nathaniel Dikeman, CSE; Sada Diallo, CSE
Faculty Advisor(s): Dr. Igor Malkiman
Industry Sponsor: Ohio State Biomedical Engineering
Industry Contact(s): Dr. David Lee, Dr. Mark Ruegsegger

1st Place:
43  Find Brutus
Students: Michael Jodon, CIS; Mark Mathis, CSE; Jacob Peddicord, CSE; Carl Shotwell, CSE
Faculty Advisor(s): Moez Chaabouni
Industry Sponsor: EduTechnologic
Industry Contact(s): Brad Henry

1st Place:
148 Djenome-Transcription Factor Target Search
Students: Joel Friedly, CSE; Tremayne Mushayahama, CSE; Edward Powell, CSE; Grant Michalski, CSE
Faculty Advisor(s): Perumal Ramasamy
Industry Sponsor:
Industry Contact(s):

1st Place:
142 MyIM
Students: Hyunjeong Yoo, CSE; Yu Qiao, CSE
Faculty Advisor(s): Dr. Jay Ramanathan
Industry Sponsor: The Ohio State Wexner Medical Center, Integrity Health Partners
Industry Contact(s): James Paat, Ann Scale, Lise Worthen-Chaudhar

Environmental Engineering:
41  Dublin Road Water Plant Ozone/Biologically-Active Carbon Upgrades
Students: Holly Lorton, EE; Bradley Marzola, EE; Kris Roser, EE; Majjie Wilson, EE
Faculty Advisor(s): Dr. Linda Weavers
Industry Sponsor: MWH, City of Columbus
Industry Contact(s): Tim Wolfe, MWH; Mark Eppich, City of Columbus

Integrated & Systems Engineering:
1st Place:
122 Improving the Efficiency and Ergonomic Impact of Water Transportation
Students: Andrew Lien, ISE; Ryan Patton, ISE; Aubrey Shapiro, ISE; Lacey Shearer, ISE
Faculty Advisor(s): Dr. Steve Lavender
Industry Sponsor: Pack H2O
Industry Contact(s): Tony Somers

2nd Place:
114 DATA Bus Route Expansions in the Polaris Parkway Region
Students: Steven Hwang, ISE; Aaron Jones, ISE; John Minor, ISE
Faculty Advisor(s): Dr. Steve Lavender
Industry Sponsor: DATA Bus
Industry Contact(s): Crystal James

Integrated & Systems (6-Sigma) Engineering:
1st Place:
93  Improving Order Accuracy and Customer Satisfaction
Students: Andrea Allison, ISE
Faculty Advisor(s): Dr. Scott Sink
Industry Sponsor: Donatos
Industry Contact(s): Travis Howard

1st Place:
94  Increasing Process Throughput in Abrasive Wheels Production
Students: Kaylane Robbins, ISE
Faculty Advisor(s): Dr. Scott Sink
Industry Sponsor: Diamond Innovations
Industry Contact(s): Michael Mathews

1st Place:
151  Improved Finished Assembly Throughput Capacity of 50%
Students: Jon Corsetti, ISE
Faculty Advisor(s): Dr. Scott Sink
Industry Sponsor:
Industry Contact(s): 

2nd Place:
92  Improving Inventory Accuracy
Students: Daniel Garfield, ISE
Faculty Advisor(s): Dr. Scott Sink
Industry Sponsor: Sherwin Williams
Industry Contact(s): Chuck Kletrovets, Bryla Potter

2nd Place:
105  Reengineering Business Development
Students: Amelia Quilon, ISE
Faculty Advisor(s): Dr. Scott Sink
Industry Sponsor: American Bronzing Company
Industry Contact(s): Robert Kaynes

2nd Place:
107  Risk Priority Number Reduction in the Assisted Move-In Process
Students: Michael Fitzsimons, ISE
Faculty Advisor(s): Dr. Scott Sink
Industry Sponsor: Ohio State Department of Student Life
Industry Contact(s): Daren Lehman, Aubrie Smith

Motorsports:

1st Place:
61  Actuation of an Automated-Manual Transmission
Students: Christopher Burns, ME; Luke Debruin, ME; Josh Hendricks, ME
Faculty Advisor(s): Dr. Shawn Midlam-Mohler
Industry Sponsor: Ohio State Motorsports Capstone Program
Industry Contact(s): Dr. Shawn Midlam-Mohler

Multidisciplinary Engineering:

1st Place:
77  EnergyHAWC
Students: James Rowland, ME; Scott Heckler, ME; Sarah Weals, ME; Marcy Kaercher, ME; Chris Schleich, ME;
Lee Trask, ME; Brendan O’Shaughnessy, ME; Yufan Ling, ME; Fandi Peng, ECON
Faculty Advisor(s): Dr. Mark Walter
Industry Sponsor: Lawrence Berkeley Research Laboratory, US Department of Energy
Industry Contact(s): Stacy Pratt

2nd Place:
72  AMETEK Wall-Mounted Digital Battery Charger
Students: Matt Ricciardi, ME; Luke Sobota, ECE; Tianyi Chen, ECE; Sam Stuard, ENGPHYS
Faculty Advisor(s): Dr. Keith A. Redmill, Bob Rhoads
Industry Sponsor: AMETEK SOLIDSTATE CONTROLS
Industry Contact(s): Phil Irwin