Graduate Best Poster Displays

Biomedical Engineering – Ryan Adam
Abnormal Airway Growth in Cystic Fibrosis Piglets

Chemical & Biochemical Engineering - Negin Sobhani
Modeling the Climatic Effects of Black Carbon and Arctic Snow and Ice

Civil & Environmental Engineering - Ellen Black
The impact of freshwater mussels on anaerobic ammonium oxidizers and other nitrogen-cycle bacteria in upper Mississippi river sediment

Electrical & Computer Engineering - Lauren Davidson
Improved Efficiency of Silicon Solar Cells utilizing Sputtered Silicon Nitride Films

Mechanical & Industrial Engineering - Avik Samanta
Simulations of Microstructure Evolution during Friction Stir Blind Riveting using a Cellular Automaton Method

The Center for Bioinformatics & Computational Biology Graduate Poster - Mallory Tollefson
Evaluating Genetic Variants of Unknown Significance Using Protein Thermodynamic Simulations in the Context of Non-Syndromic Hearing Loss.

The Center for Global & Regional Environmental Research - Maryam Abdi-Oskouei
Understanding Methane and VOC Emissions from Natural Gas Operation

IIHR-Hydroscience & Engineering - Silvia Volpi
Towards the High-fidelity Multidisciplinary Design Optimization of a 3D Composite Material Hydrofoil

Iowa Institute for Biomedical Imaging - Johanna Uthoff
Reduction and Selection of Uncorrelated Features for Lung Cancer Computer Aided Diagnosis
Undergraduate Best Poster Displays

Biomedical Engineering - **Logan Muckenhirn**  
*Nanoscale Surface Modification through "Click Chemistry" and its Effect on Biofilm Formation*

Chemical & Biochemical Engineering - **Alec Countryman**,  
*Integrated Lab-On-A-Chip Life Support Device for Human Space Missions*

Electrical & Computer Engineering - **Matthew Finley**  
*System Development for Roadway Safety Study*

Mechanical & Industrial Engineering - **Nathaniel Weger**  
*Gasification and Combustion of Miscanthus*

The Center for Bioinformatics & Computational Biology - **Jacob Nishimura**  
*The International Clubfoot Registry Database*

The Iowa Institute for Biomedical Imaging - **Qingyang Su**  
*Spectral-Domain Optical Coherence Tomography Optic-Nerve-Head and Macular En-Face Image Registration in Cases of Papilledema*

IIHR-Hydroscience & Engineering - **Aaron Boesen**  
*Air-Water Exchange of PCBs in Southern Lake Michigan: Chicago a Source of Airborne PCBs*

The Center for Computer-Aided Design - **Lauren Schutz**,  
*Analysis and Comparison of the Plie to Functional Dance Movement*

The Creative Kick-Start program - **Alicia Truka**, Kylie Hershberger, and Mitchell Miller  
*The Little Jonny That Could: Providing Independence for Congenital Arm Amputees*
Winners of the Popular Choice Award. This award is granted to the favorite posters as voted on by the visitors to the Open House

1st place Popular Choice Award - **Ryan Adam** from Biomedical Engineering:

*Abnormal Airway Growth in Cystic Fibrosis Piglets*

2nd place Popular Choice Award - **Nathaniel Weger** from Mechanical Engineering:

*Gasification and Combustion of Miscanthus*

3rd place Popular Choice Award - **Emily Pattee** from Chemical & Biochemical Engineering:

*The Effect of Cyanuric Acid on the Expression of Atrazine-degrading Genes in Pseudomonas sp. ADP*