

## **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**

1<sup>st</sup> place Popular Choice Award - **Ryan Adam** from Biomedical Engineering:

*Abnormal Airway Growth in Cystic Fibrosis Piglets*

2<sup>nd</sup> place Popular Choice Award - **Nathaniel Weger** from Mechanical Engineering:

*Gasification and Combustion of Miscanthus*

3<sup>rd</sup> 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*