ROH 2015 Award Winners

The Graduate Best Poster Awards:

For Biomedical Engineering the Graduate Poster award goes to **Gohar Manzar** for the poster: "Generation of Functional Pancreatic β-cells from Human Induced Pluripotent Stem Cells Derived from a Type I Diabetic Patientâs Skin Cells"

For Chemical & Biochemical Engineering, the Graduate Poster award goes to **Jacob Mclaughlin** for the poster: Lyotropic Liquid Crystal Templated Stimuli-responsive, Super-absorbent Copolymers

In Civil & Environmental Engineering, the Graduate Poster award goes to **Nick Herkert** for the poster: "Spatial and Temporal variations of airborne Polychlorinated Biphenyls (PCBs) in the Metropolitan Chicago area."

The Graduate Poster award for Electrical & Computer Engineering goes to **Myung Cho** for the poster: Block Iterative Reweighted Algorithms for Super-Resolution of Spectrally Sparse Signals

In Mechanical & Industrial Engineering the Graduate Poster award goes to **Michael Conger** for the poster: "Validation of cfd-mbd fsi for high fidelity simulations of full-scale wam-v sea trials with suspended payload"

The Center for Bioinformatics & Computational Biology Graduate Poster award goes to **Mark Christopher** for the poster: "Optic nerve head shape predicts development of POAG"

From the Center for Global & Regional Environmental Research, the Graduate Poster award goes to **<u>Negin Sobhani</u>** for the poster: "Using emission tagging method to understand the source sectors and geographical regions contributions to PM2.5 concentration over the Arctic"

From IIHR-Hydroscience & Engineering, the Graduate Poster award goes to **<u>Chad Drake</u>** for the poster: "Nutrient trading in Iowa: a Pilot study in the Catfish Creek Watershed**.**"

AND

ALSO From IIHR-Hydroscience & Engineering, the Graduate Poster award goes to **<u>Nicholas Thomas</u>** for the poster: "Coupled Surface-Subsurface Hydrologic Modeling to Assess Distributed Flood Mitigation Practices"

The Center for Computer-Aided Design Graduate Poster award goes to **<u>Jacob Kersten</u>** for the poster: "Internal Viscera Representation Within A Digital Human Model"

The Graduate Poster award from the Iowa Institute of Biomedical Imaging goes to **<u>Satyananda Kashyap</u>** for the poster: "Cartilage Loss in Osteoarthritic Varus/Valgus Knees: Automated 3D MRI Analysis using Data from the Osteoarthritis Initiative (OAI)"

The Undergraduate Best Poster Awards:

Rae Ann Corrigan from Biomedical Engineering for the poster "Protein Structural Optimization of Cancer Gene Wild-Types and Mutations"

Nathan Bryngelson, Chemical & Biochemical Engineering for the poster '"NOAA Tall Tower"

Alex Zeppieri, Civil & Environmental Engineering for the poster "One-Of-A-Kind Cork Chair"

Hanbin Tao, Electrical and Computer Engineering for the poster "Investigation of a Broad Spectrum Analyzer for the Real-time Quantification of Dissolved Nitrate ."

Kasra Zarei AND Zachary Behrendt, Mechanical and Industrial Engineering for the poster "An Automated Approach to Quantifying the C-Start Response in Tadpoles with Vestibular Alterations"

Kasra Zarei, Center for Bioinformatics & Computational Biology for the poster "Objective Quantification of Flicker Fusion Threshold"

Robert Dunscombe, Center for Computer Aided Design for the poster titled "Predicting Excess Post-Exercise Oxygen Consumption (EPOC)"

Ella Wasseiler, Grand Challenges Scholars Program for the poster "Hardware Based Random Number Generator for the Further Encryption of a Linux Computer"

Popular Choice Award Winners. This award is granted to the favorite posters among the visitors to the Open House.

This year's 3rd place Popular Choice Award goes to **Ninggang Shen** from Mechanical & Industrial Engineering for "Laser Peen Forming of Sheet Metal with a Surface Integrity Analysis".

The 2nd place Popular Choice Award goes to **Hamad Salehi** from Mechanical & Industrial Engineering for "Cognitive Decline, Work and Technology Use: Exploring the Relationship".

And finally, the 1st place Popular Choice Award goes to **Yin Yu** from Biomedical Engineering for "Engineering an augmented healing response for functional articular cartilage repair".