



THE OHIO STATE UNIVERSITY  
**DENMAN**  
 UNDERGRADUATE RESEARCH FORUM

The 18th Annual Richard J. and Martha D. Denman  
 Undergraduate Research Forum

Thursday, March 28, 2013

PRESENTED BY  
 The Ohio State University Honors & Scholars Center,  
 Undergraduate Research Office, and Office of Research

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**Denman**  
 CHEMISTRY  
 Harris, J. Clay  
 Arts and Sciences–Natural and  
 Mathematical Sciences

**Crinoids of Western Ohio**

**Jeremy**  
 CHEMICAL SCIENCES  
 Winer, William  
 Arts and Sciences–Natural and  
 Mathematical Sciences

**Spectroscopy to Analyze the  
 of Synthetic Diamonds**

**John**  
 CHEMISTRY  
 Harris, Justin  
 Arts and Sciences–Natural and  
 Mathematical Sciences

**and GMM**  
**Booth: 413**  
**Nayal, Olla**  
**Sunday, Nicholas**  
 CHEMISTRY  
 Advisor: Harris, Justin  
 Arts and Sciences–Natural and  
 Mathematical Sciences

**New [Ne V] Collision Strengths for  
 Improved Temperature-Density  
 Diagnostics**

**Booth: 414**  
**Palay, Ethan**  
 ASTRONOMY  
 Advisor: Pradhan, Anil  
 Coadvisor: Nahar, Sultana  
 Arts and Sciences–Natural and  
 Mathematical Sciences

**Payne, Greg**  
 MECHANICAL ENGINEERING  
 Advisor: Hammel, Chris  
 Coadvisor: Teeling, Richelle  
 Arts and Sciences–Natural and  
 Mathematical Sciences

**Improving Paraoxonase-1  
 Stereospecificity**

**Booth: 417**  
**Reyes, Christopher**  
 CHEMISTRY  
 Advisor: Magliery, Thomas  
 Arts and Sciences–Natural and  
 Mathematical Sciences

**An Exploratory Study of Ephemeral  
 Snow Cover in the Midwest and the  
 Potential Hydrologic Impacts on the  
 Great Lakes with a Warming Climate**

**Booth: 418**  
**Rine, Matthew**  
 GEOLOGICAL SCIENCES  
 Advisor: Durand, Michael  
 Arts and Sciences–Natural and  
 Mathematical Sciences

**Booth: 420**  
**Schnaible, Christian**  
 PHYSICS  
 Advisor: Hughes, Richard  
 Coadvisor: Winer, Brian  
 Arts and Sciences–Natural and  
 Mathematical Sciences

**Characterization of Semiconductor  
 Nanowires Grown by MOCVD**

**Booth: 421**  
**Schneiderman, Tajana**  
 PHYSICS  
 Advisor: Yang, Fengyuan  
 Coadvisor: Minutillo, Nicholas  
 Arts and Sciences–Natural and  
 Mathematical Sciences