PHEN Students Present Their Research

Four PHEN Department students presented their research findings at a Poster Session as a part of the annual Undergraduate Research and Scholarship Week which is held every spring.

Each student presented their research in the form of a poster, and those presentations were then judged on a variety of criteria.

MULTI-HEARTH FURNACE RABBLE ARM CHANGING PROCESS
Derek Anderson

AUTOMATICALLY UNLOCKING DOG DOOR
Andrea Larkin and Michael Abel-la

DESIGN OF AN AUTOMATIC GEAR CHANGE SYSTEM FOR A BIKE
Yi Liu and Zheming Fu

WEB BASED APPLICATION OF INQUIRY STYLE LEARNING IN HIGH SCHOOL PHYSICS
Matt Schrader, AYA Physics Education

Read all the abstracts...
David Ghen, 1961

David has had a change of address: He and his wife are enjoying good health—they are retired and are living the condo life.

Dave & Pat Ghen
103 Boca Ciega Point Blvd. N.
St. Petersburg, Florida 33708

Demetri Lignos, 1964

Demetri retired from full time work in mid 2006 and has been spending a lot of his time volunteering in Sarasota, Florida, on a variety of activities (teaching marine electronics courses for local boating organizations, local Police department, and the local Sarasota Memorial Hospital). He and his wife, Raynette J. Lyons, class of ’64, also enjoy attending and supporting many of the cultural events in their area. Demetri is still going long distance sailing on other people’s boats now as a crew member.

Tom McCalmont, 1976

Tom graduated in 1976 when Gordon Griffiths was department chair. He went on to Stanford and completed his MS in electrical engineering in 1979. Tom worked in the computer industry for many years and then in the solar industry for the last dozen years. He co-owns a solar engineering company in California with his wife (a ChemE from Ohio State)—McCalmont Engineering, website, http://www.mccalmont.net.

Tom serves on the Muskingum Board of Trustees and recently received his Professional Engineer’s license in California (electrical). He has been a practicing engineer for many years but recently added the license. Tom is also a licensed contractor in California.

Nanase Harada, 2005

Nanase obtained her PhD in physics in August 2011 at The Ohio State University. She is a postdoctoral researcher at Max Planck Institute for Radio Astronomy in Bonn, Germany.

Stephen Johnson, 2007

Stephen is a Physics/Physical Science Teacher at Tri-Valley High School.

Charles Miller, 2007

Chaz has an M.S. in Materials Science and Engineering from the University of Texas. He is employed as a Process Engineer for Texas Instruments.

Amy Neff, 2010

Amy is a physics and math tutor at Tutor.com.

Derek Simonette, 2011

Derek is Project Manager (Automation) at Basic Systems in Cambridge, Ohio.

Andrea Richard, 2011

Andrea is pursuing an M.S. in Nuclear Physics at Ohio University.

Hanna Kerr, 2011

Hannah is a clerk at the Fredericktown Community Library.

Ben Pasley, 2012

Ben is an Electrical Engineer at Basic Systems, Cambridge, Ohio.

2013 Grads: Where They are Now

Derek Anderson—Project Engineer, AMG Vanadium, Cambridge, Ohio

Andrea Larkin—Mechanical Engineer, Basic Systems, Cambridge, Ohio

Zheming Fu—Pursuing an M.S. in Automotive Engineering at Lawrence Technological University.

Yi Lu—Research Engineer, UniTherm Insulation Systems.
The PHEN Department has purchased a BFB-3000 Twin Head 3D Printer with SolidWorks software. The printer is a dual head extruder that can print objects up to 10" x 10" x 8". ABS and PLA plastics are used as printing materials. A special software (BFB Axon) is used to set up the printing options.

SolidWorks software is a 3D mechanical CAD program that runs on Microsoft Windows and is currently used by over 2 million engineers and designers at more than 165,000 companies worldwide. SolidWorks Software and the BFB-3000 3D Printer are studied and used in several courses offered by the PHEN department at Muskingum.

### PHEN FACULTY

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<thead>
<tr>
<th>Faculty</th>
<th>Title(s)</th>
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<tbody>
<tr>
<td>Richard Taylor</td>
<td>Associate Professor of Physics</td>
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<tr>
<td>Rob Wilson</td>
<td>Associate Professor of Physics, Chair</td>
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<tr>
<td>Emre Selvi</td>
<td>Assistant Professor of Engineering</td>
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<tr>
<td>Sandra Soto-Caban</td>
<td>Assistant Professor of Engineering</td>
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