

Undergraduate Physics Research Symposium

March 28, 2009

8:30 am: Photometric Observations of the Cataclysmic Variable Stars UX Uma, BZ Uma, and UW Per

Author: Patrick McCauley

Faculty Mentor: William Alexander

8:45 am: Analyzing Gas Chromatography Data Using ROOT

Author: Ryan Burke

Faculty Mentor: Dr. Steve Whisnant

9:00 am: Gas Chromatography

Author: Patrick Hansen

Faculty Mentor: Dr. Steve Whisnant

9:15 am: Stellar Ages of the Debris Sample Stars

Author: Patrick McCauley, Daniel Simonson

Faculty Mentor: Dr. Harold M. Butner

9:30 am: NaI Detectors for Gamma Spectroscopy

Author: Gregory Maust

Faculty Mentor: Dr. Steve Whisnant

9:45 am: Fiber Optics at the JLab CLAS12 Detector

Author: John Kroon

Faculty Mentor: Dr. Kevin Giovanetti

10:00-10:30 am: Coffee Break

10:30 am: Production of Polarized, Scintillating Targets to Be Used in the HIGS Project

Author: Lori Jackson

Faculty Mentor: Dr. Steve Whisnant

10:45 am: Randoms Counter Analysis

Author: Winston Hensley

Faculty Mentor: Dr. Kevin Giovanetti

11:00 am: Electrical characterization and Torsion properties of carbon Nanotubes

Authors: Joe Hardcastle

Faculty Mentor: Dr. Scott Paulson

11:15 am: Sample Fabrication for the Study of Carbon Nanotubes

Authors: Lok-kun Tsui

Faculty Mentor: Dr. Scott Paulson

11:30 am: The Promotion of Au Adhesion on Polymer Surfaces Using Polyhedral Oligomeric Silsequioxane.

Authors: Bruno Caputo

Faculty Mentor: Dr. Chris Hughes

11:45 am: Who ordered that? Constructing a Simple Muon Detector

Authors: Grant Entwistle

Faculty Mentor: Drs. G. Niculescu, I. Niculescu

12:00 am: Using Labview and PXI to create working instrumentation

Authors: Nick Herge

Faculty Mentor: Drs. K. Giovanetti

12:15 am: Shear Stresses in a Water/Sand System Partially Fluidized by Low-Intensity Vertical Vibration

Authors: Ralph Herman

Faculty Mentor: Dr. B. Utter