

Spring 2005 APSU High School Research Day

April 23, 2005 Sundquist Building Final Program

- 9:30 - 10:00 Registration - SSC 3rd Floor Atrium
- 9:50 Opening Session SSC – E305
- 10:00 - 12:00 Session I Student Presentations - SSC E305
Session II Student Presentations - SSC E306
- 12:00 - 12:30 Photo Break and Lunch - SSC E310
- 12:30 - 12:45 Closing Session and Awards - SSC - E305

Session I Presentations *Moderator – Kenneth Robertson, XEM*

- 10:00 – ***Stellar Spectroscopy: A Numerical Analysis***, Dustin Robinson, Montgomery Central High School, Mike Brown sponsor
- 10:15 – ***Research of a Young Astronomer***, Amanda Brown, Montgomery Central High School, Mike Brown sponsor
- 10:30 – ***Variability of Visual Expertise***, Emily Hindalong, Martin Luther King, Jr. Magnet High School, John Lee sponsor
- 10:45 – ***Robomap Man***, Tristan Hill, Martin Luther King, Jr. Magnet High School, John Lee sponsor
- 11:00 – ***Parallel Parking Made Easy***, Guy Kopsumbut, Martin Luther King, Jr. Magnet High School, John Lee sponsor
- 11:15 – ***In vitro Dynamics of p75 Cleavage***, Sara Beth Woodbury, Martin Luther King, Jr. Magnet High School, John Lee sponsor
- 11:30 – ***Enzyme Assisted Magnetic Nanoparticle Motion in a Model Tissue System***, Stephanie Finch, Martin Luther King, Jr. Magnet High School, John Lee sponsor
- 11:45 – ***The Fluorescent Tagging of CAS and the Observance of its Localization in Cells with Respect to Focal Adhesions***, Spencer Kern, Martin Luther King, Jr. Magnet High School, John Lee sponsor

Session II Presentations
Moderator – Lance Baird, XEM

- 10:00 – *Is Your Make-up Worth It?*, Katrina Browning, Northwest High School, Katie Saxon sponsor
- 10:15 – *The Effect of Light Changes on Electrolysis*, Casey Ridener, Northwest High School, Katie Saxon sponsor
- 10:30 – *Water Quality of Blue Creek*, Olivia Ezell (substitute speaker), McEwen High School, Constance Brown sponsor
- 10:45 – *Unknown Spectral Analysis*, Lyle Nevin, Montgomery Central High School, Mike Brown sponsor
- 11:00 – *Radio Jove*, Nathan Parrish, McEwen High School, Constance Brown sponsor
- 11:15 – *A Low Cost Robot (2nd year)*, Stephen Luco, McEwen High School, Constance Brown sponsor
- 11:30 – *Who's Your Daddy*, April Tummins, McEwen High School, Constance Brown sponsor

Sponsored by the Chemistry Department of Austin Peay State University and Chi Epsilon Mu, an ACS affiliated chemistry club. The judges for today will be Professors Ron Robertson and Carrie Brennan as well as selected XEM members. The top presenter will receive a \$250 scholarship to APSU. The top three presenters will receive cash awards.