

## Spring 2006 APSU High School Research Day

### April 22, 2006 Sundquist Building Final Program

- 9:30 - 10:00 Registration - SSC 3rd Floor Atrium
- 9:50 Opening Session SSC – E305
- 10:00 – 11:30 Session I Student Presentations - SSC E305  
Session II Student Presentations - SSC E306
- 11:30 - 12:00 Photo Break and Lunch - SSC E310
- 12:00 - 12:15 Closing Session and Awards - SSC - E305

#### *Session I Presentations* *Moderator – Lance Baird, XEM*

- 10:00 – ***Light Pollution***, Mary Bradley and Laura Tucker, McEwen High School, Constance Brown sponsor
- 10:15 – ***Spectral Differences in Planetary Nebulae***, Melanie Hawkins, McEwen High School, Constance Brown sponsor
- 10:30 – ***Study of Chain Transfer Events During VOMM Polymerization***, Lance Baird, Austin Peay State University
- 10:45 – ***All About Time Travel Due to the Effects of Gravity***, Tommy Meives, Montgomery County High School, Teresa Celusta sponsor
- 11:00 – ***Forward Scatter Meteor Counting***, Nathan Parrish, , McEwen High School, Constance Brown sponsor

## Session II Presentations

Moderator – Kenneth Robertson, XEM

- 10:00 – ~~*The Kinetics of Carbon Dioxide Production from Sucrose Decomposition Catalyzed by Various Saccharomyces cerevisiae*~~, Brent Gass, Greenbrier High School, Ronnie Nixon sponsor
- 10:15 – ~~*Computer Viruses*~~, Robbie Lanham, McEwen High School, Constance Brown sponsor
- 10:30 – *In Search of Sub-Chemically Accurate  $C_3H_3$  Thermochemical Parameters*, Kenneth Robertson, Austin Peay State University
- 10:45 – *Emergency Radio Response System*, Jacob Luco, McEwen High School, Constance Brown sponsor
- 11:00 – *If It Won't Break, Hit It With a Hammer: Facilitating Chemical Reactions at a Liquid Surface*, Rachel Castleberry, Austin Peay State University
- 11:15 – ~~*The Effectiveness of Various Oxides and Carbonates as Heterogeneous Catalysts for the Decomposition of Hydrogen Peroxide*~~, Michael Updike, Greenbrier High School, Ronnie Nixon sponsor

Note: Strikethrough indicates the presentation was not given

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 from the chemistry department, Dr. Spencer Buckner from the physics/astronomy department, and selected chemistry and physics students. The top presenter will receive a \$250 scholarship to APSU. The top three presenters will receive cash awards.