ACUBE 47TH Annual Meeting

October 9-11, 2003
Truman State University
Kirksville, MO

Biology for Contemporary Living

Preliminary Program

Thursday, October 9th

2:00 - 5:00 PM  Pre-Conference Field Trip: Crinoid fossil quarry  Meet in Violette Hall foyer

3:00 - 5:00 PM  Steering Committee Meeting  Conference Room Student Union

6:00 - 8:00 PM  Registration and Reception

Heavy hors d’oeuvres

Violette Hall

8:00 - 9:00 PM  Opening Session  Violette Hall

Welcome to ACUBE:
ACUBE President: Margaret Waterman, Southeast Missouri State University

Welcome to Truman State University:
President, Truman State University: Dr. Barbara Dixon
Division of Science Chair: Scott Ellis Truman State University
Program Chair: Lynn Gillie Elmira College
Local Arrangements Chair: Nancy Sanders, Truman State University

OPENING ADDRESS (Public Welcome to Attend)

When the Exotic Becomes Invasive: Familiar Questions wit’ Stwange Anthers

Dr. Michael Kelrick, Division of Science, Truman State University

9:15 - 10:15 PM  Steering Committee Meeting  Conference Room Student Union
Friday, October 10th

7:00 AM - 5:00 PM Registration table - Open all day. Please check your membership status; Inquire about audiovisual needs; General information (all locations are in the Student Union unless otherwise indicated)

7:00 - 8:00 AM Buffet Breakfast (by Interest Group) Georgian Room

7:30 - 10:30 AM Field Trip: Birding Meet outside Georgian Room

9:00 AM - Noon and 2:00 - 5:00 PM SUSTAINING MEMBER EXHIBITS Refreshments provided Activities Room

8:15-9:45 AM CONCURRENT WORKSHOP SESSIONS I

1. Easy Ways To Do Physiology Labs with Products from iWorx/CB Sciences. Steve Andre, iWorx/CB Sciences, Inc. Pickler Memorial Library Room 103

2. Investigative Activities and Cases from Microbes Count! Ethel Stanley and Margaret Waterman, Beloit College and Southeast Missouri State University Pickler Memorial Library Room 203

3. The Non-target Effects of Bti Toxin on Aquatic Insects. Julie J. Shaffer and William W. Hoback, University of Nebraska at Kearney Student Union Room 309

9:50-10:20 AM POSTER SESSION I

Refreshments provided

1. Developing a Three-Tiered Test to Diagnose Misconceptions in College Biology Students. Barbara Gaddis and Sandra Berry-Lowe, CU-Colorado Springs Activities Room

2. Improving Information Literacy for Biology Majors Vaughn Gehle, Southwest Minnesota State University

3. Using Baker's Yeast Saccharomyces cerevisiae as a Model for Molecular Genetics Laura Salem, Rockhurst University


5. Student Projects in a Team-taught, Mixed-Major Field Course. Lynn Gillie, Robert Erdman, and Todd Egan, Elmira College


7. The Use of Service Learning to Meet Learning Objectives in General Biology Courses. Lisa Felzien, Rockhurst University

8. Plaque Assay and Nucleic Acid Analysis of Lytic Coliphages from Creek Water and Domestic Sewage. Omokaro Obire and Michael Lockhart, Rivers State University of Science and Technology, Port Harcourt, Nigeria and Truman State University, Kirksville
10:30 - 11:15 AM  **CONCURRENT PAPER SESSIONS I**  
2. Seeing Plants as Doing Plants: How to Teach Students to See Plants by Using Taxonomy. **Suzanne Martin**, Moberly Area Community College  
3. Microbial Ecology Activities from *Microbes Count!*. **Ethel Stanley**, Beloit College  
4. The Undergraduate Research Program at Truman State University. **Jeffrey M. Osborn**, Truman State University  

**Student Union Room 307**  
**Room 308**  
**Room 309**  
**Governor's Room 310**

11:20 - 12:05 AM  **CONCURRENT PAPER SESSIONS II**  
1. Gardens as Classrooms: Using Gardens for Teaching and Research. **Steve Carroll**, Truman State University  
2. Integrating the Scientific Method into Anatomy and Physiology Laboratories. **Karyn Turla**, Friends University  
3. A Web-based Resource for the Teaching of Evolutionary Biology as an Applied and Investigative Laboratory Science. **Joanna Vondrasek, Janis Antonovics, and Doug Taylor**, University of Virginia  
4. Teaching Biology Courses in the Face of Poverty and Ignorance. **Omokaro Obire**, Rivers State University, Nigeria, and Truman State University  

**Student Union Room 307**  
**Room 308**  
**Room 309**  
**Room 310, Governor's Room**

12:15 - 1:00 PM  **Luncheon and First Business Meeting**  
*First and Final Call for Nominations!!*

**Georgian Room**

1:00 - 1:45 PM  **LUNCHEON PROGRAM**  
*The Challenges Ahead in Educating 21st Century Biologists.*  
**Dr. Judith Dilts**, Dr. Burnell Landers Chair of Biology and Professor, William Jewell College  

**Georgian Room**

2:00 - 5:00 PM  **Field Trip: Restored Prairie**  

**Meet outside Georgian Room**

2:00 - 2:45 PM  **CONCURRENT PAPER SESSIONS III**  
1. Can a New Dog Learn Old Tricks?: A Junior Faculty Member puts NSF's Recommendations for Science, Math, Engineering, and Technology (SME&T) Education to Task. **Peter White**, Colby-Sawyer College  
2. Development of a Research-Based Course for Undergraduates in RNA, DNA, and Protein Extraction, Purification, and Characterization. **Tom Tauer**, Coe College  

**Student Union Room 307**  
**Room 308**  
**Room 309**
3. Unclassifying Classical Physiology Laboratories.  **Gregory Grabowski**, University of Detroit Mercy

4. Introducing Epidemiology in Microbiology Labs Using a Model of a Smallpox Epidemic Started by a Bioterrorist.  **Alicia Wilson**, AKL Informatics

**POSTER SESSION II**

2:50 - 3:20 PM

Refreshments provided

Posters from the morning session still available for review

**CONCURRENT WORKSHOP SESSIONS II**

3:30 - 5:00 PM

1. IOptimize Integrated Learning System (utilizing the power of onsite-online interface in Teaching and Learning).  **Abour Cherif, Stefanos Gialamas and Lin Stefurak**, DeVry University

2. An Introduction to Working with Nucleic Acid and Protein Databases.  **Brent Buckner and Diane Janick-Buckner**, Truman State University

3. AMCBT's/ACUBE's Golden Anniversary Ideas! Memories! Accomplishments!.  **Margaret Waterman**, Southeast Missouri State University

**Web Committee Meeting**

5:05 - 5:45 PM

**Social**

Still National Osteopathic Museum and historic medicinal garden (resumes of candidates available for review)

**NE Missouri Dinner and Second Business Meeting**

7:00 - 9:00 PM

(two-minute speeches prior to dinner; balloting after)

**DINNER PRESENTATION**

**Kirksville's Harry Laughlin (1880-1943): Applying Classroom Genetics for the 'Betterment' of Humanity.  Dr. Philip Wilson**, Penn State College of Medicine

*Presentation of the 2003 Out of this World Teaching Idea*

### Saturday, October 11th

7:30 - 8:45 AM  **Buffet Breakfast** (by Interest Group)

7:45 - 8:45 AM  **Bioscene Editorial Board**
9:00 - 9:45 AM  CONCURRENT PAPER SESSIONS IV  

1. Bioscience by Design.  
   **Bob Aron, Bashar Hanna, and Abour Cherif**, DeVry University      
   **Room 309**

2. Biological Andragogy.  
   **Marya Czech**, Lourdes College       
   **Room 308**

   **Neil Sabine**, Indiana University East       
   **Room 310**

   **Morgan Perrone, Crystal Gammon, Anne Dekas, and Steve Mitchell**, NMSU, Washington University, Harvard, and U of Maryland-College Park       
   **Room 307**

10:00 - 10:45 AM  CONCURRENT PAPER SESSIONS V  

1. iBench: Instruction in Basic Equipment Needed for Chemistry and Biology.  
   **Tom Tauer**, Coe College                  
   **Room 309**

2. Utilizing Technology to Link Alums with Undergraduate Learning.  
   **Austin Brooks**, Wabash College          
   **Room 308**

   **Neil Sabine**, Indiana University East    
   **Room 310**

   **Jon Gering**, Truman State University    
   **Room 307**

11:00 AM - 12:15 PM  Luncheon and Third Business Meeting 

BUSINESS MEETING  
Resolutions:  
**Dick Wilson,**  
**Rockhurst University**  

Executive Secretary Report:  
**Pres Martin,**  
**Hamline University**  

Bioscene:  
**Ethel Stanley,**  
**Beloit College & Tim Mulkey,**  
**Indiana State University**  

Presidential Address:  
**Margaret Waterman,**  
**Southeast Missouri State University**  

2004 Meeting:  
**Austin Brooks,**  
**Wabash College**  

12:30 - 3:00 PM  Steering Committee Meeting  
Includes newly elected Steering Committee members!  

12:30 – 4:00 PM  Post conference Field Trip  
Open-air flea market, game birds and the Mennonite store  

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