

PROGRAM

Friday, March 4, 2005

**12:30 p.m. Registration - Young Bldg. Ballroom,
Arkansas Tech University.**

**1:00 - 4:00 p.m. Seminar Tours -
Assemble in Young Ballroom. Members of ATU Beta Beta
Beta, Biological Honor Society, are serving as your
tour guides.**

Tour 1 MATERIALS TESTING - In this exercise, students will see demonstrated standard materials tests including tensile strength and fracture toughness. The effects of various alloys and material treatments on the results of these tests will be discussed. **Presenter: Dr. Bob Frasier, Assistant Professor of Mechanical Engineering, Corley Bldg. 162**

Tour 2 KADDS EGG CLAW - Each semester the ATU Intro to Engineering classes form project groups and complete a simple design project. The groups present their designs in a class competition at the end of the semester. Dr. Wu and some of the team members from the winning design from the Fall, 2004 semester will demonstrate their device for transporting an egg from a holding platform to an egg carton. **Presenter: Dr.**

Charles Wu, Assistant

Professor of Electrical Engineering, Corley Bldg. 120

Tour 3 RADIATION: IT'S ALL AROUND US - Many everyday objects emit small amounts of radiation. In this exercise, students will get a chance to see some common radiation detection/counting equipment, determine whether common objects emit detectable amounts of electromagnetic radiation and examine the collection of the parabolic solar energy collector (another form of electromagnetic radiation!).

Presenter: Mr. Stan Apple, Instructor of Mechanical Engineering, Corley Bldg. 117/118

Tour 4 WIND TUNNEL - In this activity, students will see the Mechanical Engineering department's low-speed

wind tunnel in operation. Typical flow patterns over wing sections will be demonstrated and explained. Forces acting on the wing section will be demonstrated. **Dr. Randy Culp, Professor of Mechanical Engineering, and Dr. Bob Fithen, Associate Professor of Mechanical Engineering, Corley Bldg. 119**

4:30 p.m. *Meeting of All Delegates* Announcements and orientation with Arkansas JSBS Director. Young Ballroom

Meeting of All Teacher Delegates with Director.

Briefing for All Student Research Paper Presenters with Director

5:15 p .m. *Return to Holiday Inn.*

**6:30 p.m. *Recognition Banquet* - ATU Chambers Cafeteria
Banquet Room Dr. Linda Kondrick, Director, Arkansas JSBS, presiding**

***Welcome* - Dr. Robert Brown, President, Arkansas Tech University**

***Recognition of Student Research Paper Readers* -
Presentation of certificates. Dr. Richard Cohoon,**

Dean, School of Physical and Life Sciences and
Dr. Linda Kondrick presiding.

8:00 p.m. *Speaker* - Dr. Cathy Baker, Associate Professor of
Geology at Arkansas Tech University, Ross Pendergraft
Library & Technology Center, Room 300.

Title - Tsunami Vulnerability in the United
States

9:15 p.m. ATU Music Theatre Workshop will present a cabaret
style performance filled with show tunes, and favorite
standards. The Cabaret is under the direction of
Professors Ken Futterer and Holly Ruth Gale.
Witherspoon Bldg. Auditorium.

10:30 p.m. Organized/Planned Fun Activities, Quiz Bowl,
and Snack Party. Dr. Jacqueline Bowman Quiz Bowl
Director.
Divide delegates into groups. Young Bldg. Ballroom.

SATURDAY March 5, 2005

6:45-7:45 a.m. Breakfast - ATU Chambers Cafeteria.
(Present meal ticket to cashier)

8:00 a.m. Presentation of Student Research Papers - Dr.
Charlie Gagen, Associate Professor and Head of

Biological Science Dept., Arkansas Tech University,
presiding. **McEver Science Bldg. Room 162**

12:00 noon Lunch - ATU Chambers Cafeteria

Present meal ticket to cashier).

12:45 p.m. Meet at Young Bldg. Ballroom to board buses for
Heifer Project International, (HPI) Perryville,
Arkansas.

1:00 p.m. Buses leave for HPI.

2:00 p.m. Heifer Project International Tours: Hands on
Tour: Video (1) Global Village Trail (2) Water Buffalo
Rides (3) Hayride (4) Guatemala Farm Tour (5) Two hands-
on activities like brick or rope making **Presenter:**
Heifer Project Staff

5:00 p.m. Board buses to return to ATU campus.

6:00 p.m. Dinner- ATU Chambers Cafeteria. (Present meal
ticket to cashier).

7:00 p.m. Speaker - Dr. Terry Lomheim, Distinguished
Engineer in the Sensor Systems Subdivision, of The
Aerospace Corporation, El Segundo, CA. **Ross Pendergraft**

Library & Technology Center, Room 300.

Title - "Remote Sensing From Space With Imaging
Instruments"

8:15 p.m. Announcement of Student Research Paper National
Trip Winners

Teacher Excellence Award

Return to Young Bldg Ballroom

8:30 p.m. Poster Presentation Set Up

Judging of Posters, Dr. Wilson Gonzalez-Espada
Officiating. Young Ballroom

9:15 p.m. Swim Party - J.W.Hull Physical Education Bldg.
Olympic Pool

10:15 p.m. Return to Young Ballroom for SNACK PARTY

SUNDAY, March 6, 2005

7:45-8:45 a.m. -Breakfast- ATU Chambers Cafeteria
(Present meal ticket to cafeteria)

9:00 a.m. Evaluation Session - Young Bldg.
Ballroom

Announcement of Poster Winners

delegates

Certificates awarded to student

Drawing for student prizes

Adjournment