MINUTES

ADMINISTRATIVE UNIT OF THE SOUTHEASTERN SECTION
AMERICAN SOCIETY FOR ENGINEERING EDUCATION
April 5, 1993

The annual business meeting of the Administrative Unit of the Southeastern Section of the American Society for Engineering Education was held after lunch on April 7, 1993 in Centennial C of the Vanderbilt Holiday Inn Motel in Nashville, Tennessee. In attendance were:

Donald L. Cole University of Louisville
R. L. Lott, Jr. Vanderbilt University
John T. Mason, III Tennessee Technological University
Kenneth H. Murray NC A&T State University
John Rupf Southern Tech
E. J. White Vanderbilt University

The meeting was called to order by the Chairman, Donald Cole, at 12:40 p.m. The minutes of the 1992 meeting were read by the Chairman in the absence of the Secretary, and approved.

Discussion concerning the agenda for the 1994 meeting resulted in general agreement that a Roundtable Discussion is of interest to attendees of the Administrative Unit Session. There was discussion about the lack of participation in the Administrative Unit’s sessions each year.

Donald L. Cole was elected secretary for 1993-94, completing the following offices in the Unit:

Chairman John T. Mason III
Vice Chairman Celestine A. Ntuen
Secretary Donald L. Cole

The meeting adjourned at 1:15 p.m.

[Signature]
Donald L. Cole
(for Celestine A. Ntuen, Secretary)
MINUTES

ADMINISTRATIVE UNIT ROUNDTABLE DISCUSSION
SOUTHEASTERN SECTION
AMERICAN SOCIETY FOR ENGINEERING EDUCATION
April 5, 1993

The Administrative Unit Session of the Southeastern Section of the American Society for Engineering Education was held at 3:15 p.m. on April 5, 1993 in the Bartlett Room of the Vanderbilt Holiday Inn in Nashville, Tennessee.

The attendees were:

William Beard         Western Kentucky University  205-745-5844
Lisa Bogarty          Pellissippi State University   615-694-6482
Donald L. Cole        University of Louisville     502-588-7599
Richard Gould         Middle Tennessee State University 615-898-2776
R. L. Lott, Jr.       Vanderbilt University        615-322-2891
John T. Mason, III   Tennessee Technological University 615-372-3172
Clark Midkiff         University of Alabama         205-348-1645
Kenneth H. Murray     North Carolina A&T State University 919-334-7737
Abe Pallus            Columbia State Community College 615-388-0120
John Rupf             Southern Tech                  404-528-7246
Farid Tranjan         UNC-Charlotte                 704-547-4149
E. J. White           Vanderbilt University          615-322-0719

John T. Mason III, Vice Chairman, moderated the Roundtable Discussion that centered on Faculty Development, Student Retention, Distance Education, and Multi-media Instruction.

The session concluded at 4:30 p.m.

Donald L. Cole
(for Celestine A. Ntuen, Secretary)
Southeastern Regional Conference of the American Society for Engineering Education

DISTANCE LEARNING

New and in the 21st century

April 4 – 6, 1993 • Nashville, Tennessee

Conference Co-Sponsored by ASEE and Vanderbilt University
1993 ASEE Southeastern Regional Conference

General Conference Information

Section President:
Robert Batson, University of Alabama

Technical Program Chair:
Dennis J. Fallon, The Citadel

Local Arrangements:
Edward J. White, Vanderbilt University
Peter Hoadley, Vanderbilt University
Robert Lott, Vanderbilt University

Conference Registration

Conference registration times and locations are listed in the schedule. The registration fee for participants includes two breakfasts, two lunches, the opening reception and the awards banquet. The opening reception and pre-banquet reception are open to all attendees.

Please mail your conference registration form with payment to: School of Engineering, Vanderbilt University, Box 1826, Station B, Nashville, TN 37235; or fax your form with credit card number to: (615) 343-8006.

Hotel Information

The Holiday Inn Vanderbilt will be the site of this year’s conference. For room reservations, call the Holiday Inn Vanderbilt at (615) 327-4707 or fax (615) 327-8034. Please make your reservations under the Vanderbilt University group block. Room rates will be $58.00 for a single room, $64.00 for a double room, plus taxes. Room reservations should be made by March 6, 1993 to receive the special room rate and to assure room availability.

Transportation and Directions

The Holiday Inn Vanderbilt is located on West End Avenue across from the Parthenon and near Vanderbilt Stadium. West End Avenue and the Holiday Inn Vanderbilt are easily accessible from I-40 by taking the Broadway exit (Broadway will become West End Avenue). Follow the directional signs for Vanderbilt University. The Holiday Inn Vanderbilt will be located on your left approximately 1 1/2 miles from downtown.

Nashville International Airport is served by 11 airlines including 4 commuter carriers. Transportation from the airport is available by Grayline Downtown Airport Express Shuttle. Shuttle buses to the Holiday Inn Vanderbilt run every 30 minutes. The cost is $8.00 one way and $14.00 round trip. Taxi rental from the airport to the Vanderbilt area will cost from $16.00 to $20.00 one way.

Spouse Program

Monday’s tour will be a trip to Belle Meade Plantation and to Cheekwood Fine Arts Museum and Botanical Gardens. Transportation and lunch are included. Tuesday’s program will be a historical tour of Vanderbilt Campus. Lunch will also be included. Registration for both days will be $42.00, for Monday only $35 and for Tuesday only $12. Please register in advance if possible.

Early Arrival Information and “On Your Own” Activities

Nashville has a number of other exciting and interesting activities available for those visiting the city. Besides Belle Meade Plantation and Cheekwood Museum and Botanical Gardens (both part of the Spouse Program); there is The Hermitage, Home of President Andrew Jackson. The Parthenon, located in Centennial Park directly across from the Holiday Inn Vanderbilt, is the only full-size replica of the ancient Greek temple in the world. Other Nashville attractions include tours of the Ryman Auditorium (long-time home of the Grand Ole Opry) and the Country Music Hall of Fame. Nashville is also host to numerous night-time music listening clubs, where you can hear everything from bluegrass, to jazz, to rock and roll.

For early arrivals, packets of information are available about activities in Nashville. Included is information on how to obtain Grand Ole Opry tickets (Opry shows are on Fridays and Saturdays only), or tickets for a cruise on the General Jackson Riverboat. Please check the box on your registration form to indicate you would like a packet mailed to you. Information will also be available at on-site registration.
1993 ASEE Southeastern Regional Conference
Conference Schedule

Sunday, April 4

TIME

1:00 - 6:00 PM  Registration — Lobby
2:00 - 4:00 PM  Learning Styles/Teaching Techniques Workshop — Training Room
                (Workshop description in the back of the program)
4:00 - 6:00 PM  Section Executive Board Meeting — Coaches Corner
7:00 PM  Reception — Centennial A and B

Monday, April 5

7:00 - 9:00 AM  Registration — Lobby
7:30 - 9:00 AM  General Breakfast — Lounge
                • Campus Representatives Meeting — Centennial A
                • New Engineering Educators Meeting — Centennial B
                • Session Moderators Meeting — Centennial C

9:00 - 10:15 AM  General Session — Centennial Room
                • Welcome to Vanderbilt University
                • Section President’s Welcome -Dr. Robert Batson, University of Alabama
                • Announcements
                • Keynote Address -Chancellor Joe B. Wyatt, Vanderbilt University

10:15 - 10:45 AM  Refreshment Break — Centennial Foyer

10:45 - NOON  Technical Sessions (see Technical Session Information for papers and authors)

  Industrial Interest  — Bartlett Room
      Moderator: Robert Batson
      University of Alabama

  Instructional Unit Session I  — Parthenon Room
      Moderator: D. J. Fallon
      The Citadel

  Civil Engineering Session I  — Coaches Corner
      Moderator: Russell H. Stout, Jr.
      The Citadel

  Engineering Technology Session I  — Training Room
      Moderator: Rhonda Hoekelberg
      Alabama Agricultural and Mechanical University
NOON - 1:30 PM  Unit Luncheons and Business Meetings — Lounge
(Separate Rooms)
• Instructional Unit — Centennial A
  Presentation of the Tom C. Evans Award Winning Paper
  and Business meeting
• Research Unit — Centennial B
• Administrative Unit — Centennial C

1:30 - 2:45 PM  Technical Sessions (see Technical Session Information for papers and authors)

  Industrial Engineering Session — Bartlett Room
  Moderator: Robert Batson
  University of Alabama

  Mechanical Engineering Session I — Parthenon Room
  Moderator: B. K. Hodge
  Mississippi State University

  Electrical Engineering Session — Training Room
  Moderator: Shelton Houston
  University of Southern Mississippi

  Civil Engineering Session II — Coaches Corner
  Moderator: John A. Murden
  The Citadel

2:45 - 3:15 PM  Refreshment Break — Centennial A

3:15 - 4:30 PM  Technical Sessions (see Technical Session Information for papers and authors)

  Administrative Unit Session — Bartlett Room
  Moderator: John T Mason, Jr.
  Tennessee Technological University

  Instructional Unit Session II — Parthenon Room
  Moderator: M. R. Chowdhury
  Army Waterways Experimental Station

  Civil Engineering Session III — Coaches Corner
  Moderator: Curtis Young

  Engineering Graphics Session — Training Room
  Moderator: Jimmy Dean Hahs
  East Tennessee State

6:00 - 7:00 PM  Reception — Centennial Room

7:00 - 9:00 PM  Awards Banquet — Centennial Room
Tuesday, April 6

7:00 - 9:00 AM  Registration — Lobby

7:30 - 9:00 AM  Division Breakfast and Business Meetings — Centennial Room
(Separate Tables)

9:00 - 10:15  Centennial Plenary Session — Centennial Room

10:15 - 10:45 AM  Coffee Break — Centennial Foyer

10:45 - NOON  Technical Sessions (see Technical Session Information for papers and authors)

  Instructional Unit Session III  — Parthenon Room
  Moderator: J. P. Mosher
  University of Louisville

  Engineering Technology Session II  — Training Room
  Moderator: Rhonda Hockelberg
  Alabama Agricultural and Mechanical University

  Instructional Unit Session IV  — Bartlett Room
  Moderator: James K. Nelson
  Clemson University

  Combined Electrical, Mechanical, and Civil Session — Coaches Corner
  Moderator: Kenneth Brannan
  The Citadel

NOON - 1:30 PM  Luncheon and Section Business Meeting — Centennial Room

1:30 PM  Tour — Vanderbilt School of Engineering
1993 Southeastern Regional Conference
Technical Session Information

**Industrial Interest**
Moderator: Robert Batson
University of Alabama

Distance Education Need Not Be Impersonal
Anita L. Callahan, Lee A. Weaver, Paul E. Givens and Andrew J. Barrett
University of South Florida

Role of SME's Manufacturing Engineering Education Foundation in Enhancing Lab Resources—An Experience
S. Kant Vajpayee
The University of Southern Mississippi

Partnerships with Industry, Distance Education, and Paradigm Changes
Harold W. Schmitt
The University of Tennessee

**Instructional Unit Session I**
Moderator: D. J. Fallon
The Citadel

Breaking the Mathematics Monopoly
Louis E. Fay
Georgia Military College

Three Caveats for Users of Linear Regression Analysis
Curtis J. Young and Joann Lee
University of North Carolina at Charlotte

A 3-D Perspective to Selected Eigenvalue/Eigenvector Problems
Chase Laurendine Jr. and Malcolm A. Cutchins
Auburn University

Teaching an Old Dog a New Trick
Cecil Ramage and Edmund Tsang
University of South Alabama

**Civil Engineering Session I**
Moderator: Russell H. Stout, Jr.
The Citadel

Computer Simulations as a Supplement to Civil Engineering Laboratory Courses
John A. Murden
The Citadel

Integrating Applications Software into the Civil Engineering Technology Curriculum
Andrew C. Kelle and William Whifaker
Murray State University

Changing Scales in the Strength of Materials Laboratory
Timothy A. Philpot
Murray State University

An Efficient and Effective way to Teach Failure in Existing Undergraduate Civil Engineering Programs
Oswald Rendon-Heffero
Mississippi State University

**Monday, 10:45 - NOON**

**Bartlett Room**

**Parthenon Room**

**Coach's Corner**
Engineering Technology Session I
Moderator: Rhonda Hockelberg
Alabama Agricultural and Mechanical University

- A Teachers Perspective of Satellite Transmitted Courses in Engineering Technology
  John M. Jeffords and F. M. Williams
  Old Dominion University

- In-Built Mechanisms to Enhance Successful Outcomes in the Educational Process of Engineering Technologists
  Stanley N. Ihekweazu
  South Carolina State University

- The Use of Small Scale Rotative Machinery in the Laboratory Environment for Teaching Single Plane Balancing for Large Centrifugal Machinery
  Helmuth E. Worbs
  University of Central Florida

- A Guide to Enhance Televideo Distance Learning
  Robert E. Magowan
  Memphis State University

Industrial Engineering Session
Moderator: Robert Batson
University of Alabama

- Distance Education as a Strategic System in the University
  Harold W. Schmitt and C. Harold Aikens
  The University of Tennessee

- Simulating Competition Among Remote Sites
  Greg Deal and Anita L. Callahan
  University of South Florida

- Academic Issues in Distance Learning: Flexibility vs. Standards
  Jerry D. Westbrook
  University of Alabama in Huntsville

- Another Assistant?
  James Marr
  Alabama A & M

Mechanical Engineering Session I
Moderator: B. K. Hodge
Mississippi State University

- The First Study of United States Engineering Education: The Mann Study
  William Beard
  Western Kentucky University

- Trends in Civil Engineering and Mechanical Engineering at Tennessee State University
  Chinyere Onwubiko
  Tennessee State University

- A Century of Evolution in a Mechanical Engineering Program
  B. K. Hodge and W. G. Steeie
  Mississippi State University

- Experiences with a Video-taped Off-Campus Mechanical Engineering Graduate Program
  W. G. Steeie, R. P. Taylor, B. K. Hodge and E. W. Jones
  Mississippi State University

Electrical Engineering Session
Moderator: Shelton Houston
University of Southern Mississippi

- Expert Systems in Distance Education
  Asad Yousuf
  Savannah State College
Control System Experimentation Under Tight-Budget Restrictions
Robert L. Drake
The University of Tennessee

A Pure Computer Engineering Degree Curriculum
Marvin C. Schiffman
The University of Southern Mississippi

Computer Networks In An Instructional Setting
Shelton L. Houston
University of Southern Mississippi

Microprocessor versus Microcontroller Selection Criteria and Application Examples
Gary H. Johnsey
University of Southern Mississippi

**Civil Engineering Session II**
**Monday, 1:30 - 2:45 PM**
— Coaches Corner

Moderator: John A. Murden
The Citadel

University Interdisciplinary Environmental Studies: No Risk Value added Education
Steven S. Schneiderman
Murray State University

Adding Computer Technology to the Basic Surveying Course
John H. Page
Virginia Military Institute

Are You an L, X, Y or Z Engineering Educator?
Dennis J. Fallon and Kenneth P. Brannan
The Citadel

Using FEA in the Design and Analysis of a Miniature Micromachined Accelerometer
K. M. Walsh, J. P. Mohsen and M. Miracle
University of Louisville

**Administrative Unit Session**
**Monday, 3:15 - 4:30 PM**
— Bartlett Room

Moderator: John T Mason, Jr.
Tennessee Technological University

Roundtable Discussion of Topics to include:
Faculty Development
Retention - Reasons and Actions
Distance Education
Multi-media Instruction

**Instructional Unit Session II**
**Monday, 3:15 - 4:30 PM**
— Parthenon Room

Moderator: M. R. Chowdhury
Army Waterways Experimental Station

Supplementing Teaching and Homework with Video Tapes and Audio Cassettes
Marvin C. Schiffman
The University of Southern Mississippi

The Most Effective Methods of Teaching Computer Simulation Modeling
John Myers
University of Southern Mississippi

Assessment: How to Make the Lemon into Lemonade
John H. Page
Virginia Military Institute

Are Current Student Evaluation Techniques an Accurate Assessment of Effective Teaching
John Myers
University of Southern Mississippi
An Oral Communication Component in the Engineering Design Process
Lawrence J. Dunlop and Jack A. Stinson
The Citadel

Civil Engineering Session III
Moderator: Curtis Young
Monday, 3:15 - 4:30 PM — Coaches Corner
Experiences in a Capstone Course with Civil Engineering and Architectural Engineering Students
Kenneth H. Murray
North Carolina Agricultural and Technical State University
Bringing Practicing Engineers and Engineering Practice to the Classroom
W. Grigg Mullen
Virginia Military Institute
The Legacy of Benjamin Banneker: A Professional Surveying Track Curriculum at Florida A&M University
Jeffrey G. Carlen
Florida Agricultural and Mechanical University
Numerical Methods for Civil Engineers
Peter W. Hoadley
Virginia Military Institute

Engineering Graphics Session
Moderator: Jimmy Dean Holts
East Tennessee State
Monday, 3:15 - 4:30 PM — Training Room
A Comparison of Teaching Computer-aided Drafting and Traditional Drafting Sequence and in Parallel with Respect to Comprehension and Proficiency
Frank S. lringer
Mechanical & Industrial Engineering Technologies
A Computer Tool for Helping Students Develop 3D Thinking Capabilities
Fang Zhao
Florida International University
Modern Engineering Graphics at Tennessee Tech
Larry Goosby
Tennessee Technological University

Centennial Plenary Session
History of the Southeastern Section of the ASEE
Jack B. Evett
University of North Carolina at Charlotte
Outstanding Engineering Educators in the Southeast: A Salute to Five Who Made a Difference
Robert G. Batson
University of Alabama
Tuesday, 9:00 - 10:15 PM — Centennial Room

Instructional Unit Session III
Moderator: J. P. Moshen
University of Louisville
Tuesday, 10:45 - NOON — Parthenon Room
Distance Education: Learning by Adult Students in the Work Place
Harold W. Schmitt
The University of Tennessee
Challenging the Brightest Freshman in the Introduction to Engineering Courses
Daniel D. Ludwig
Virginia Polytechnic Institute and State University
Education by the Triangle Model
Stanley N. Ihekwazu
South Carolina State University
An Instructional Strategy to Integrate Topics within a Multi-Disciplinary Course  
Susan I. Coleman and Ellen M. Tornchin  
Virginia Polytechnic Institute and State University

**Engineering Technology Session II**  
Moderator: Rhonda Hockelberg  
Alabama Agricultural and Mechanical University  
Development of a Unique Multi-Discipline PC-based Data Acquisition, Analysis and Process Control Mobile Laboratory System  
Ambrose Barry  
University of North Carolina at Charlotte  
An Electronic Engineering Technology Degree with an Emphasis in Airway Science  
Marvin C. Schiffman  
The University of Southern Mississippi  
The Use of Distance Learning Technology to Expand Undergraduate Programs in Engineering  
Randy L. Perry and Ed Whéeler  
University of Tennessee at Martin  
Distance Learning: Engineering Technology for West Tennessee  
Susan Simon  
Memphis State University

**Instructional Unit Session IV**  
Moderator: James K. Nelson  
Clemson University  
A Panel discussion on the Advantages and Disadvantages of Long Distances Educational from Several Perspectives  
Panel: James K. Nelson - Clemson University  
Ben Blanchard - Virginia Polytechnical Institute and State University

**Combined Electrical, Mechanical, and Civil Session**  
Moderator: Kenneth Brannan  
The Citadel  
Integrating Artificial Intelligence In An Engineering Computer Science Curriculum  
Adel S. Elmaghrraby, Khaled A. Karnel and Arthur M. Reihl  
University of Louisville  
Team Project of Computer Application of Multi-mass Absorbers Effective in wide Frequency Band in Advanced Vibrations Class  
George Przybyl-Einstein, Krzysztof Wenerowski, Ravikumar Subramanian, and Togarepi Chinoda  
Tennessee State University  
Structures for the Twenty First Century  
Mostafiz R. Chowdhury  
Army Experimental Waterways Station  
A Model Capstone Design and Manufacturing Course in Mechanical Engineering Curriculum  
Ahmad Smali and Joseph Scardina  
Tennessee Technological University  
Design of a Remotely Operated Cutting Tool: Students Perspective  
Emmanuel I. Agba and E. William Jones  
Mississippi State University
Learning Styles/Teaching Techniques Workshop
with Susan Simons, Memphis State University

Sunday, April 4, 1993
2:00 - 4:00 PM
Training Room • Holiday Inn Vanderbilt
Registration Fee - $25.00

Learning Styles/Teaching Techniques —
What are Some of the Theories of College Student Development

Learning styles and teaching styles will be the primary emphasis of the workshop. The instrument utilized will be the Kolb Learning Style Inventory which will examine the individual learning style of the participants. By examining and understanding the difference of the individual learning styles within the group, the participants will have a greater understanding of the learners in their classrooms and could then resort to various methods of teaching to enhance the education of all. These methods may also be incorporated into other developmental models such as William Perry's theory of intellectual and ethical development and Lawrence Kohlberg's theory of moral development, which will also be discussed.
1993 ASEE Southeastern Regional Conference
Registration Form

_____ Registration prior to March 6, 1993  Fee $150.00
_____ Registration after March 6, 1993  $175.00
_____ Learning Styles Workshop  $25.00
_____ Additional Banquet Ticket  $22.00
_____ Spouse Program  - Monday & Tuesday  $42.00

- Monday Only  $35.00
- Tuesday Only  $12.00

Total Enclosed: $ __________________

Last Name ____________________________ First Name and Initial ____________________________

Preferred Badge Name _________________________________________________________________

Spouse or Guest's Name (if applicable) ___________________________________________________

Organization / Employer _____________________________________________________________

Mailing Address ________________________________________________________________

City ____________________________ State and Zip ____________________________

_____ Check Enclosed

_____ MasterCard  _____ Visa

Please make checks payable to: School of Engineering, Vanderbilt University

Credit Card Number ____________________________

Expiration Date ____________________________

Authorized Signature ____________________________

_____ For early arrivals

□ Please send me information about "on your own" activities in Nashville.

Please return this form with payment to:
School of Engineering
Vanderbilt University
Box 1826, Station B
Nashville, TN 37235

or fax (615) 343-8036

If you have any questions concerning conference registration, please call Sally Davidson or Sharon Lowe at (615) 322-2762

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