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 attendence 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.

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 Unversity	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

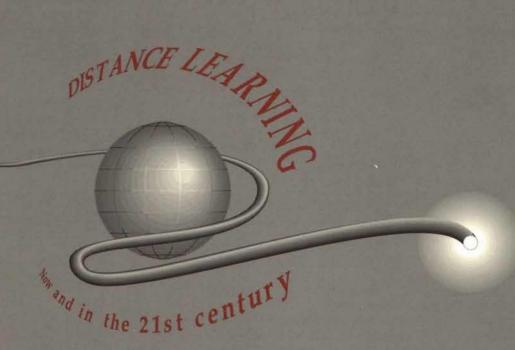
John T. Mason III, Vice Chairman, moderated the Roundtable Discussion that centered on Faculty Development, Student Retention, Distance Education, and Multi-media Instruction.

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



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 ½ 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)

<u>Industrial Interest</u> — Bartlett Room

Moderator: Robert Batson University of Alabama

<u>Instructional Unit Session I</u> — Parthenon Room

Moderator: D. J. Fallon

The Citadel

<u>Civil Engineering Session I</u> — Coaches Corner

Moderator: Russell H. Stout, Jr.

The Citadel

<u>Engineering Technology Session I</u>
— Training Room

Moderator: Rhonda Hockelberg

Alabama Agricultural and Mechanical University

	(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	,, <u>a</u> ,,	
	University of Southern Mississippi		
	Civil Engineering Session II	— Coaches Corner	
	Moderator: John A. Murden	Codenes Comer	
	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)		
3:15 - 4:50 PIVI	rechnical sessions (see rechnical session information	n for papers and dumors)	
	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		
	Facing oring Craphics Session	Training Doon	
	Engineering Graphics Session Moderator: Jimmy Dean Hahs	— Training Room	
	East Tennessee State		
6:00 - 7:00 PM	Reception — Centennial Room		
2.00 / 100 / 101	- Comonnario		
7:00 - 9:00 PM	Awards Banquet — Centennial Room		

Unit Luncheons and Business Meetings — Lounge

NOON - 1:30 PM

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

Moderator: J. P. Moshen University of Louisville

<u>Engineering Technology Session II</u> — Training Room

- Parthenon Room

Moderator: Rhonda Hockelberg

Alabama Agricultural and Mechanical University

<u>Instructional Unit Session IV</u> — 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

Monday, 10:45 - NOON

— Bartlett Room

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 Horold W. Schmitt

The University of Tennessee

Instructional Unit Session I

Monday, 10:45 - NOON

- Parthenon Room

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

Monday, 10:45 - NOON

Coaches Corner

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. Kellie and William Whitaker 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-Herrero Mississippi State University

Engineering Technology Session I

Monday, 10:45 - NOON

— Training Room

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

Monday, 1:30 - 2:45 PM

- Bartlett Room

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

Monday, 1:30 - 2:45 PM

- Parthenon Room

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. Steele

Mississippi State University

Experiences with a Video-taped Off- Campus Mechanical Engineering Graduate Program

W. G. Steele, 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

Monday, 1:30 - 2:45 PM

- Training Room

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

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

Dennis J. Fallon and Kenneth P. Brannan

The Citadel

Administrative Unit Session

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

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

Coaches Corner

Monday, 1:30 - 2:45 PM

Virginia Military Institute

Are You an L, X, Y or Z Engineering Educator?

Using FEA in the Design and Analysis of a Miniature Micromachined Accelerometer

K. M. Walsh, J. P. Mohsen and M. Miracle

University of Louisville

Monday, 3:15 - 4:30 PM

Monday, 3:15 - 4:30 PM

— Bartlett Room

- Parthenon Room

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

Monday, 3:15 - 4:30 PM

— Training Room

Moderator: Jimmy Dean Hahs East Tennessee State

A Comparison of Teaching Computer-aided Drafting and Traditional Drafting Sequence and in Parallel with Respect to Comprehension and Proficiency Frank S. Irlinger 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 Goolsby Tennessee Technological University

Centennial Plenary Session

Tuesday, 9:00 - 10:15 PM

-Centennial Room

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

Instructional Unit Session III

Tuesday, 10:45 - NOON

- Parthenon Room

Moderator: J. P. Moshen University of Louisville

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 Polytechnical Institute and State University

Education by the Triangle Model Stanley N. Ihekweazu South Carolina State University An Instructional Strategy to Integrate Topics within a Multi-Disciplinary Course Susan L Coleman and Ellen M. Tomchin Virginia Polytechnic Institute and State University

Engineering Technology Session II

Tuesday, 10:45 - NOON

- Training Room

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 Wheeler University of Tennessee at Martin

Distance Learning: Engineering Technology for West Tennessee Susan Simon Memphis State University

Instructional Unit Session IV

Tuesday, 10:45 - NOON

— Bartlett Room

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 Tuesday, 10:45 - NOON

Coaches Corner

Moderator: Kenneth Brannan The Citadel

Integrating Artificial Intelligence In An Engineering Computer Science Curriculum Adel S. Elmaghraby, Khaled A. Kamel and Arthur M. Riehl 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 Wernerowski, 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 Smaili 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

1993 ASEE Southeastern Regional Conference Workshop Information

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 Tid	cket	\$22.00		
Spouse Program	– Monday & Tuesday	\$42.00		
	– Monday Only	\$35.00		
	– Tuesday Only	\$12.00		
	Total Enclosed: \$			
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Preferred Badge Name				
Spouse or Guest's Name (if applicable)	1 10 3801			
Organization / Employer				
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City	State and Zip			
Check Enclosed	MasterCard	Visa		
Please make checks payable to:	Credit Card Number	Credit Card Number		
School of Engineering, Vanderbilt University	Expiration Date			
	Authorized Signature			
— For early arrivals — Please send me information about "on your own" activities in Nashville.	Please return this form with pay	ment to : School of Engineering Vanderbilt University Box 1826, Station B Nashville, TN 37235		
on your own activities in washville.		or fax (615) 343-8006		
If you have any questions concerning conference	registration, please call Sally Davids	on or Sharon Lowe at (615) 322-2762		

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