MINUTES

ADMINISTRATIVE UNIT OF THE SOUTHEASTERN SECTION
AMERICAN SOCIETY FOR ENGINEERING EDUCATION
APRIL 15, 1996

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 15, 1996 in the Mountain View C of the Park Vista Resort Hotel in Gatlinburg, Tennessee. In attendance were:

Donald Cole University of Louisville 502-852-1422
Robert Batson University of Alabama 205-348-1609
Shelton Houston University of Southern Mississippi 601-266-4895
Steve Cheshier Southern College of Technology 770-528-7230
Anthony Tilmans Southern College of Technology 770-528-7234
Hal Schmitt University of Tennessee Knoxville 423-974-0286
J.P. Mohsen University of Louisville 502-852-6276

The meeting was called to order by the Chairman, Donald Cole, at 12:30 p.m. The minutes of the 1995 meeting were read by the secretary, Shelton Houston and approved.

A Call for Papers for the 1997 Annual Meeting was prepared and approved. Several topics were discussed for the theme of the conference. A possible plenary session was also approved.

Anthony Tilmans was elected secretary for 1996-97, completing the following offices in the Unit:

Chairman Robert Batson
Vice Chairman Shelton Houston
Secretary Anthony Tilmans

The meeting adjourned at 1:10 p.m.

Shelton Houston, Secretary
MINUTES

ADMINISTRATIVE UNIT SESSION I
SOUTHEASTERN SECTION
AMERICAN SOCIETY FOR ENGINEERING EDUCATION
APRIL 15, 1996

The Administrative Unit Session I of the Southeastern Section of the American Society for Engineering Education was held at 10:30 a.m. on April 15, 1996 in Garden View D of the Park Vista Resort Hotel in Gatlinburg, Tennessee.

The attendees were:

Donald Cole University of Louisville 502-852-4672
Shelton Houston University of Southern Mississippi 601-266-4896
Robert Batson University of Alabama 205-348-1609
Hal Aikens University of Tennessee 423-974-3333
Samuel S. Lee University of Miami 305-284-2408
Keith V. Johnson East Tennessee State University 423-929-4464
Britt K. Pearce Southern College of Technology 770-528-7274
Steve Cheshier Southern College of Technology 770-528-7230
James Marr SPARTA, Inc. 205-837-5282, x2214
Lawrence Dunlop The Citadel 803-953-5241
Ed Bernstein Alabama A&M University 205-851-5581
Stanley Ihenkweazu South Carolina State University 803-536-7117
Paul Devgan Tennessee State University 615-963-5362

Donald Cole, Chairman, moderated the session. Robert Batson, James Marr, and Keith Johnson presented papers and discussion followed.

The session concluded at 12:00 p.m.

Shelton Houston, Secretary
MINUTES

ADMINISTRATIVE UNIT SESSION II
SOUTHEASTERN SECTION
AMERICAN SOCIETY FOR ENGINEERING EDUCATION
APRIL 15, 1996

The Administrative Unit Session II of the Southeastern Section of the American Society for Engineering Education was held at 1:45 p.m. on April 15, 1996 in Garden View C of the Park Vista Resort Hotel in Gatlinburg, Tennessee.

The attendees were:

Shelton Houston       University of Southern Mississippi
Donald Cole           University of Louisville
Mark McGinley         North Carolina A&T State University
Gary Johnsey          University of Southern Mississippi
Stanley Ihenkeazu     South Carolina State University
J. M. Bulter          Middle Georgia College
William Q. Gurley     University of Tennessee @ Chattanooga
Paul Chinowsky        Georgia Tech
Robin Goodman         Georgia Tech
Verle Schrodt         University of Alabama
Michael Gregg         Virginia Tech
Fred Gilliam          University of Tennessee
Lawrence Dunlop       The Citadel
Hal Schmitt           University of Tennessee
Dennis Fallon         The Citadel
Tony Scott            University of Tennessee
Britt Pearce          Southern College of Technology
Edwin Foster          University of Tennessee @ Chattanooga
Ken Murray            North Carolina A&T State University
Samuel S. Lee         University of Miami
John Page             Virginia Military Institute
Dan Koch              University of Tennessee
Max Hailey            University of Tennessee Space Institute

Donald Cole, Chairman, moderated the session. Hal Schmitt, Michael Gregg, and Tony Scott presented papers and discussion followed.

The session concluded at 3:15 p.m.

Shelton Houston, Secretary
1996
Southeastern Regional Conference of the American Society for Engineering Education

LIFELONG LEARNING IN ENGINEERING EDUCATION

April 14 - 16, 1996
Gatlinburg, Tennessee

Conference Co-Sponsored by ASEE and the University of Tennessee, Knoxville
1996 ASEE SOUTHEASTERN SECTION MEETING
Gatlinburg, TN
April 14 - 16, 1996

LIFELONG LEARNING IN ENGINEERING EDUCATION

Section President:      Stuart R. Bell, University of Alabama

Technical Program Co-Chairs:  R. A. Chin, East Carolina University
                                 J. P. Mohsen, University of Louisville

The University of Tennessee

Chancellor:             William T. Snyder
Vice Chancellor for Academic Affairs: John Peters
Dean of Engineering:   Jerry E. Stoneking

Local Committee:       H. W. Schmitt, Chairman
                                 A. J. Edmondson
                                 W. N. Odom
                                 F. D. Tompkins

Conference Assistants: Susan Hall, Coordinator
                                 Donna Bodenheimer
                                 Linda Chatham
                                 Karen Howe
“Lifelong Learning in Engineering Education”
1996 American Society for Engineering Education
Southeastern Section Meeting
Conference Schedule

Sunday, April 14

12:00 pm - 6:00 pm  REGISTRATION, Pre-Function Ballroom
1:00 pm - 3:00 pm  Teaching Portfolios Workshop, Garden View A
3:00 pm - 5:00 pm  Experiment Design Workshop, Garden View B
3:00 pm - 5:00 pm  Learning Styles Workshop, Garden View C
5:00 pm - 6:30 pm  Board Meeting, Vista Board Room
6:30 pm  Reception, Pool Side

Monday, April 15

6:00 am - 6:45 am  5K Walk/Run (optional), Meet at ASEE Registration Desk
7:00 am - 10:30 am  REGISTRATION, Pre-Function Ballroom
7:00 am - 8:30 am  General Breakfast and Authors Briefing, Ballroom 3
8:30 am - 10:15 am  Opening Session, Ballroom 4
*  Section President's Welcome
   (Dr. Stuart R. Bell, The University of Alabama)
*  Announcements
*  Keynote Addresses
   *  Dr. William T. Snyder, Chancellor, The University of Tennessee
      Changes Facing Higher Education
   *  Dr. Frank L. Huband, Executive Director, The American Society
      for Engineering Education
      ASEE and Engineering Education in the Twenty-First Century
10:15 am - 10:30 am  Refreshment Break, Lower Lobby
10:30 am - 12:00 noon  Technical Session I
*  Civil Engineering Division, Garden View A
*  Instructional Unit, Garden View B
*  Mechanical Engineering Division, Garden View C
*  Administrative Unit, Garden View D
*  Electrical Engineering Division, Garden View E
12:00 pm - 1:30 pm  Luncheon, Awards Presentations/Administrative Unit Business
   Meeting, Lower Lobby
*  Instructional Unit Business Meeting and Best Instructional Paper
   Presentation, Ballroom 4
*  Research Unit Business Meeting and Best Research Paper Presentation,
   Mountain View B
*  Administrative Unit Business Meeting, Mountain View C
1:30 pm - 1:45 pm  Break
1:45 pm - 3:15 pm  Technical Session II
   * Industrial Engineering Division, Garden View A
   * Research Unit, Garden View B
   * Administrative Unit, Garden View C
   * Instructional Unit, Garden View D

3:15 pm - 3:30 pm  Break, Lower Lobby

3:30 pm - 5:00 pm  Technical Session III
   * Civil Engineering Division, Garden View A
   * Instructional Unit, Garden View B
   * Mechanical Engineering Division, Garden View C
   * Electrical Engineering Division, Garden View D
   * Engineering Design Graphics Division, Garden View E

6:30 pm - 7:30 pm  Reception, Lower Lobby

7:30 pm - 8:30 pm  Awards Banquet, Ballrooms 3 & 4
   8:30 pm  Entertainment provided by The University of Tennessee Singers

Tuesday, April 16

6:00 am - 6:45 am  5K Walk/Run (optional), Meet at ASEE Registration Desk

7:00 am - 10:30 am  REGISTRATION, Pre-Function Ballroom

7:00 am - 8:30 am  Business Breakfast, Ballroom 3

8:30 am - 10:15 am  Conference Panel Discussion, Ballroom 4
   Continuing Education Requirements for Professional Registration and Membership in Professional Societies
   * Curtis J. Young, Consulting Engineer (Chair)
   Panel Members
   * David Bayer, University of North Carolina, Charlotte
   * Earnest B. Rogers, SC Board of Registration for Engineers Land Survey Surveyors

10:15 am - 10:30 am  Break, Lower Lobby

10:30 am - 12:00 noon  Technical Session IV
   * Civil Engineering Division, Garden View A
   * Instructional Unit, Garden View B
   * Mechanical Engineering Division, Garden View C
   * Computer Engineering and Technology Division, Garden View D
   * Engineering Technology Division, Garden View E

12:00 pm - 1:30 pm  Annual Business Luncheon, Ballroom 3
Technical Session I

Civil Engineering Division

Chair: Richard Mines, University of South Florida

Cooperative Solutions to Lifelong Civil Engineering Education
Paul S. Chinowsky, Nelson C. Baker
Georgia Institute of Technology

Parks, Playgrounds, and Penalty Tours:
Project Management for the Senior Civil Engineering Student
John E. Riester, Jr.
Virginia Military Institute

Improving Student Performance in Structural Analysis Using Active Learning
Kenneth H. Murray, W. Mark McGinley
North Carolina A&T State University

Instructional Unit

Chair: Constantine A Ciesielski, East Carolina University

The Construction of a Classroom Multimedia Computer Podium and Its Uses
Verle N. Schrödt
University of Alabama

Re-Engineering the Civil Engineering Classroom
James K. Nelson, Dennis J. Fallon, Russell H. Brown
Clemson University/The Citadel/Clemson University

Multimedia In Electrical Engineering & Technology, and Chemistry Education
B. J. Das, Nancy Grim, Walter Buchanan
West Virginia University/University of Miami/Middle Tennessee State University

The Role of the Computer in Freshman Engineering Courses at Virginia Tech
Michael H. Gregg
Virginia Polytechnic Institute and State University
**Mechanical Engineering Division**

*Garden View C*

Chair: B. K. Hodge, Mississippi State University

Emphasizing Commercial Product Development in the Mechanical Engineering Capstone Design Course
Frank H. Speckhart, Clement C. Wilson
University of Tennessee

Competitive Design Projects at The University of Alabama
Joey Parker, Steve Kavanaugh
University of Alabama

A New Capstone Course in Undergraduate Solid Mechanics
Chris Wilson, Madhu Madhuskar, Chris Pionke
University of Tennessee

**Administrative Unit**

*Garden View D*

Chair: Donald L. Cole, University of Louisville

A Successful Process for Preparation of a Departmental ABET Self-Study
R. G. Batson
University of Alabama

Twenty Years After the Plea
J. D. Marr
SPARTA, Inc.

Student in the University: A Hopeful Attempt At Successful Retention
K. V. Johnson
East Tennessee State University

**Electrical Engineering Division**

*Garden View E*

Chair: Rhonda Hockelberg, Alabama A&M University

Demand Priority Scheduling for Dynamic Channel Allocation
Ali Elahi
Alabama A&M University

QNS: A Queing Network Simulator for Educational Environments
Mohamed Y. el-Refai, Adel S. Elmghraby
University of Louisville

Some Early Thoughts on a Time Domain Approach to Transients
George E. O'Conner, Jr.
Lipscomb University
Technical Session II

Industrial Engineering Division

Garden View A
Chair: Bob Batson, University of Alabama

Applying BPR to the IE Educational Process
Denise Ford Jackson
University of Tennessee

The ISO STEP Initiative: Data Exchange beyond IGES
Donald B. Sanderson
East Tennessee State University

The MENSA Changes--One Member’s View
James Marr
SPARTA, Inc.

Research Unit

Garden View B
Chair: Kevin M. Walsh, University of Louisville

The Alabama Alternative Fuels Program - A Joint Research/Education Experience
K. Clark Midkiff, Stuart R. Bell, Frank Newman, Terri Adams
University of Alabama/Alabama Department of Economic and Community Affairs

Undergraduate Research: A Useful and Growing Trend
J. P. Mohsen, Cheryl Hoskins
University of Louisville

The Teaching of Failure Analysis and Accident Reconstruction to Graduate Students
Alan A. Johnson
University of Louisville

An Economical Technique for Fabricating Single-Layer Microstructures Using Photolithography
K. M. Walsh, W. K. Pitts, N. W. Jenkins, K. P. Browne, M. Martin, K. Solberg
University of Louisville/Indiana University Cyclotron Facility

Administrative Unit

Garden View C
Chair: Donald L. Cole, University of Louisville

Strategic Planning in a College of Engineering
H. W. Schmitt, J. E. Stoneking
University of Tennessee
Student Retention Strategies; Clustering--Preliminary Observations
M. H. Gregg, D. Hirschfeld, B. Watford
Virginia Polytechnic Institute and State University

Utilization of the Myers-Briggs Type Indicator by a Freshman Engineering Advising Center
T. H. Scott, J. C. Scott
University of Tennessee

**Instructional Unit**

*Garden View D*

**Chair:** Constantine A. Ciesielski, East Carolina University

Win - Win Partnerships Between Business and Higher Education: A Framework for Implementation
Andrew Czachry, Wayne Andrews, Ray Feagins
East Tennessee State University/Sprint Mid-Atlantic

Distance Education: A Comparison Between On-Campus and Off-Campus Student Evaluations of Faculty
Richard O. Mines, Jr.
University of South Florida

A Calculus Retention Program for Students at Risk in Engineering
Carol A. O’Conner, Thomas L. Holloman, Brenda Hart
University of Louisville

Scholastic Quality of Freshman Engineering Technology Students
P. S. Yeh
Jacksonville State University

3:30 pm - 5:00 pm

**Technical Session III**

**Civil Engineering Division**

*Garden View A*

**Chair:** John E. Riester, Jr., Virginia Military Institute

Exploring Interactive Multimedia as an Instructional Method of Choice to Assist Learning Disabled Students in Civil Engineering
Michael H. Woo
The Citadel

Software for Hardheads: Computing Tools for the Undergraduate Civil Engineer
Peter W. Hoadley, John H. Page
Virginia Military Institute
Use of a "Corporation Approach" in the Conduct of Civil Engineering Laboratory Courses
Thomas J. Anessi
The Citadel

**Instructional Unit**

*Garden View B*

Chair: Constantine A Ciesielski, East Carolina University

Using a Computer Algebra System to Enhance Learning Via Communication
M. J. Maron, P. A. S. Ralston, L. D. Tyler
University of Louisville

Puntos: A Cross-Disciplinary Initiative for Motivating Students to Self-Directed Learning
Kenneth P. Brannan, Brant B. Staley
The Citadel

Educating Engineering Students with Learning Disabilities
Russell H. Stout, Jr., Kenneth P. Brannan, Dennis J. Fallon
The Citadel

Design Experience in a Freshman Introductory Engineering Course
Ida McClain, Chinyere Onwubiko
Tennessee State University

**Mechanical Engineering Division**

*Garden View C*

Chair: Gregory Ferguson, University of Alabama

Implementation of Design Optimization in Undergraduate Mechanical Engineering Curriculum
Chinyere Onwubiko
Tennessee State University

FEM Brought to the Academic Engineering Desktop
M. B. Taylor, C. D. Pionke, B. Luttrell, A. J. Baker
University of Tennessee

Engineering Curriculum Reform: A Successful Experience at Tuskegee University
H. A. Aglan, M. Sief, S. Ali, K. Borah
Tuskegee University

Factors for Change in Mechanical Engineering Education
B. K. Hodge, R. P. Taylor
Mississippi State University
Electrical Engineering Division

Garden View D
Chair: Rhonda Hockelberg, Alabama A&M University

Using a Spreadsheet to Solve RL and RC Electrical Circuits Problems
William R. Conrad, Richard E. Pfile
Indiana University/Purdue University Indianapolis

Concentration in Computers Under a BSEE Program
Satinderpal Singh Devgan
Tennessee State University

A Relational Data Base Implementation Approach to Function and State Reduction
Ali Elahi
Alabama A&M University

Engineering Design Graphics Division

Garden View E
Chair: Michael H. Gregg, Virginia Polytechnic Institute

Introducing Parametric Design into an Already Crowded Mechanical Engineering Technology Curriculum
Allen Leybourne
University of Southern Mississippi

The Role of Multimedia Technology in Engineering Design Graphics Education
Robert A. Chin, Amy R. Frank
East Carolina University

Tuesday, April 16
10:30 am -12:00 noon

Technical Session IV

Civil Engineering Division

Garden View A
Chair: Michael H. Woo, The Citadel

Lifelong Learning in Civil Engineering
Thomas R. Dion
The Citadel

Monte Carlo Analysis of Linked Highway Intersections Using Mathcad
John A. Murden, Troy Long
The Citadel

The Value of a Pre-Capstone Undergraduate Civil Engineering Design Experience
Thomas R. Dion
The Citadel
**Instructional Unit**

*Garden View B*

Chair: J. P. Mohsen, University of Louisville

**Problem Solving and Design in the Freshman Year: The Foundation Coalition**

Joey Parker, Jim Richardson, David Cordes
University of Alabama

**Multimedia in Engineering Technology**

Seyed A. Hosseini, Asad Yousuf
Savannah Technical Institute

**Communications In Construction Management - Conducting an Effective Meeting**

Constantine A. Ciesielski
East Carolina University

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**Mechanical Engineering Division**

*Garden View C*

Chair: B. K. Hodge, Mississippi State University

**Teaming and Long Distance Learning--A Subjective Look at If They Work**

Gregory L. Ferguson
University of Alabama

**Computer Network Application of Multimedia Instructional Modules for Introductory Thermodynamics**

Geoffrey Cobourn, George C. Lindauer
University of Louisville

**Career Patterns of Mississippi State ME Graduates**

B. K. Hodge, W. G. Steele
Mississippi State University

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**Computer Engineering and Technology Division**

*Garden View D*

Chair: Gary Johnsey, University of Southern Mississippi

**Interactive Network Tools for Collaborative Learning**

Daniel B. Koch
University of Tennessee

**A Z-Transform Model to Predict Network Response Time**

John H. Darnell
Western Kentucky University

**Design and Evolution of a Software Reverse Engineering Tool**

James D. Marr, Joe Oswalt, Catherine Burns, Stacy Shaddix, Dana Bennett
SPARTA, Inc.

**Instructional Use of the Internet in the School of Engineering at Christian Brothers University**

Eric Welch, Mark Driver
Christian Brothers University
Engineering Technology Division

Garden View E

Chair: Jimmy Dean Halis, East Tennessee State University

Society and Technology: A Quantitative Approach
Robert I. Drake
University of Tennessee at Martin

Value Packed Student Spreadsheet Learning Experiences
Charles R. Thomas, Vernon S. Hillsman
Purdue University

Is There Value in Engineering Technology?
David R. Haws
University of Southern Mississippi

Technology Management: A +2 Program at Kansas State University at Salina, Kansas
Jim Keating
Kansas State University
FROM THEORY TO PRACTICE

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