

MINUTES

Administrative Unit of the Southeastern Section
American Society for Engineering Education
April 9, 1990

The annual business meeting of the Administrative Unit of the Southeastern Section of the American Society for Engineering Education was held on April 9, 1990, in the Burnham Room of the Hilton at University Place, near the University of North Carolina at Charlotte. The meeting was called to order by the Chairman at 12:40 PM. In attendance at the meeting were:

Walter E. Castro	Clemson University
Wayne H. Chen	University of Florida
Donald L. Cole	University of Louisville
William Q. Gurley	University of Tennessee - Chattanooga
John T. Mason, III	Tennessee Technological University
Robert H. Pusey	Virginia Polytechnic Institute and State University
William R. Rey	University of Alabama
Robert D. Snyder	University of North Carolina - Charlotte

The minutes of the 1989 annual business meeting were read by the Secretary and approved.

The Chairman announced that the representatives from the University of Florida, who were to present a planning factors report, were unable to attend.

The following officers were elected for 1990-1991:

Chairman	George M. Swisher
Vice Chairman	William K. Rey
Secretary	Donald L. Cole

It was noted that the 1990 meeting was the 56th annual meeting of the Southeastern Section. The 1991 meeting will be held at The Citadel in Charleston, South Carolina, the 1992 meeting is scheduled for Old Dominion University in Norfolk, Virginia, and the 1993 meeting is scheduled for Vanderbilt University in Nashville, Tennessee.

The meeting adjourned at 12:48 PM.


Donald L. Cole, Secretary

MINUTES

ADMINISTRATIVE UNIT SESSION

36th Annual Meeting of South Eastern Section

AMERICAN SOCIETY for ENGINEERING EDUCATION

Charlotte, NC

9 April 1990

MODERATOR : John T Mason III, Asst Dean, Tenn Tech Univ, Chairman

PRESENT : Aaron K Ball, Assoc Prof, Western Carolina
David M Bayer, Prof, UNC-C
Earle Brown, Prof Emer, Duke
Walter E Castro, Asst Dean, Clemson
Wayne Chen, Dean Emer, Univ of Fla
Donald L Cole, Asst Dean, Univ of Louisville
Gary R Crossman, Assoc Dean, Old Dominion
Jack B Evett, Assoc Dean, UNC-C
William Q Gurley, Prof, UT-C
Andrew Hargrove, Norfolk State
Shelton Houston, Asst Prof, Univ of Southern Miss
W W Medaris, Assoc Prof, Western Carolina
Robert H Pusey, Assoc Prof, Virginia Tech
William K Rey, Asst Dean, Univ of Ala
George A Timblin, Dept Head, Cent Piedmont Comm Col
Geoffrey L Wilson, BP Amer Prof, Johnson C Smith Univ
Robert L Young, Prof, UTSI

ACTIONS : Three questions were discussed during allotted time with significant comments by each school summarized below:

1. How do you control admission to upper division courses?

a. Clemson - By agreement with other Deans in the University (who will take students from Engineering at any time) a student has two years to achieve a satisfactory QPA (2.00) or they are expelled from the College of Engineering.

b. Virginia Tech - Students must complete 72 hours in a degree granting discipline with a 2.00 or they are suspended.

c. UT-C and Univ of Ala - Every prerequisite course must be completed with a C grade and there is a limited repeat policy (which was not stated during the discussion).

2. How do you evaluate transfer credits from Foreign Institutions?


a. Univ of Louisville and Univ of Ala - Use "Education Credential Evaluators" from Wisconsin. Both are satisfied with evaluations especially from Central and South American schools. Students must submit transcripts to the evaluators and pay for the service.

b. Western Carolina - Use results from advanced courses taken.

3. How do you handle inflated grades transferred from other schools?

a. ALL SCHOOLS PRESENT - Grades are not accepted. Most schools review grades and accept only C or better but then the credit only is accepted and NOT the grade.

b. General - Most schools were surprized that anyone still takes grades from other schools. Their students depend on the current school for retention, etc. and not on past school records.



JOHN T MASON III
9 April 1990

MAKE YOUR RESERVATION!!!

1990 ASEE Southeastern Section Meeting

April 8 - 10, 1990
The Hilton at University Place
The University of North Carolina at Charlotte
Charlotte, North Carolina

*Sponsored by
The University of North Carolina at Charlotte
College of Engineering
Continuing Education Office
American Society for Engineering Education*

**1990 ASEE
Southeastern Section Meeting**

REGISTRATION

The registration fee for this program is \$115.00 if received by March 23, 1990. Registrations received after this date will be \$135.00. A special rate of \$75.00 is available for retired members. The fee covers the cost of the sessions, handout materials, refreshment breaks, two breakfasts and luncheons, a reception and banquet. The spouse program fee is \$45.00 and includes the Awards Banquet and Business Meeting/Luncheon.

Your registration fee should accompany the attached registration form. Checks should be made payable to the University of North Carolina at Charlotte. Mail to:

**ASEE Conference
Continuing Education and Extension
University of North Carolina at Charlotte
Charlotte, North Carolina 28223**

Enrollment is limited, and registrations will be processed on a first-come, first-served basis.

LOCATION

The 1990 ASEE Southeastern Section Meeting will be held near the University of North Carolina at Charlotte, at the Hilton at University Place on Harris Boulevard. The easiest route to the conference from Interstate 85 is to take the UNCC exit (#45). Travel eastward on W. T. Harris Boulevard until U.S. Highway 29. The Hilton is at this intersection. The easiest route to the conference from Interstate 77 is to take the UNCC exit (#18). Travel eastward on W. T. Harris Boulevard as above. The site can also be reached by traveling north or south on U.S. 29 until the W. T. Harris Boulevard intersection at University Place.

CANCELLATIONS AND REFUNDS

If, for any reason, you register and find you cannot attend, please contact the University of North Carolina at Charlotte Continuing Education Office prior to March 23, 1990, and you will receive a full refund. If you are unable to give the full two-week notice, an administrative fee equal to 25% of the registration fee will be charged against your refund. Refunds cannot be made after the program has begun; however, a substitute participant may be designated in place of a registrant who cannot attend if this change is made during registration.

TRANSPORTATION

A commercial transportation service is available for ground transportation between the Charlotte Douglas International Airport and the Hilton. For information about that service, you may call Mr. William Gean, LATCO Transportation Company at (704) 567-1335 or (704) 337-9892.

TAX DEDUCTION FOR EDUCATIONAL EXPENSES

Treasury regulations may permit an income tax deduction for educational expenses (registration fees, travel, meals, and lodging) undertaken to maintain or improve professional skills.

LODGING

A block of rooms has been reserved at the Hilton at a special rate of \$75.00 single or \$75.00 double for program attendees. Rooms may be reserved by calling (704) 547-7444. Please identify yourself as an ASEE program participant when making reservations and use the reservation number G 3055.

Several other area motels located within five miles of the program site that can provide accommodations are: Carriage Inn, (704) 596-7020; Luxbury Hotel, (704) 596-9229; Residence Inn, (704) 547-1122; Holiday Inn (I-85 North Inn) (800) 465-4329; Compri Hotel at University Park North (704) 547-0999.

ADDITIONAL INFORMATION

For additional information, call Ms. Maxine Bailey at (704) 547-4452.

EDUCATIONAL/ENGINEERING SOFTWARE EXCHANGE

Everyone is encouraged to bring useful public domain and shareware MS-DOS software for the software exchange. Copyrighted software will NOT be exchanged. Computers and 5 1/4" disks, 360K disks will be available. A computer with both a 5 1/4" and 3 1/2" drive will be available.

ABOUT THE PROGRAM

ENGINEERING EDUCATION:

20 YEARS AGO — 20 YEARS HENCE

Engineering educators will have a chance to reminisce about the education curriculum of the past, to view the technology of the present, and make predictions of the changes needed to meet the challenges of the future.

MEETING FEATURES

- * Keynote talk by a fellow engineer, ASEE member and University Chancellor
- * Presentations for all disciplines
- * Spouse Program
- * Engineering Software Exchange
- * Special Pre-conference Workshop

1990 ASEE SOUTHEASTERN SECTION MEETING

Time	Sunday, April 8	Monday, April 9	Tuesday, April 10
7:00 - 9:00		Registration	
7:30 - 9:00		General Breakfast	Division Breakfasts Business Meetings
9:00 - 10:15		General Session Keynote Address	Division Programs Mech Eng III Civil Eng III Eng Tech III
10:15 - 10:45		Refreshment Break	Refreshment Break
10:45 - 12:00		Unit Meetings Instr. Unit I Instr. Unit II Research Unit Administrative Unit	Unit and Div. Programs Instr. Unit III Instr. Unit IV Eng. Tech IV
12:00 - 1:30		Unit Luncheons Instr. Unit Research Unit Adm. Unit	Luncheon and Sec. Business Mtg.
2:00 - 3:15		Division Programs Mech Eng I Civil Eng I Ind Eng I Eng Graphics I Eng Tech I	Tour - TBA
3:15 - 3:30		Refreshment Break	
3:30 - 4:45		Division Programs Mech Eng II Civil Eng II Ind Eng II Eng Graphics II Eng Tech II	
2:00 - 5:30	Effective Teaching Institute		
1:30 - 8:00	Registration		
4:00 - 6:00	Section Executive Board Meeting		
6:00 - 7:00		Reception	
7:00 - 9:00	Reception	Awards Banquet	

AGENDA

Pre-Conference Workshop * * * EFFECTIVE TEACHING INSTITUTE (ETI)

Sunday, April 8, 1990

Topic:

Engineering Education Implications of Cognitive
and Neurologically Based Models for Understanding
Learning and Problem Solving

Moderator: Virgil G. Cox, Dean of Engineering and
Industrial Technology, Gaston College,
Dallas, N. C.

Time: 2:00 - 5:30 p.m., Sunday April 8

Place: Hilton at University Place, Keynes Room

Cost: \$15.00

The confluence of cognitive science and neuroscience has allowed the creation of new scientifically based models for understanding the behavior of students in problem solving situations. From those models we can develop guidelines and procedures which will improve our educational practices. This workshop will present models from several disciplines and from them develop an integrated model for understanding learning processes and a specific model for problem solving. Practical techniques will be demonstrated that will help instructors identify the characteristics or levels of function of their students and teaching guides will be presented and discussed that will help them improve student skill levels.

Sunday, April 8, 1990

2:00 - 5:30 p.m.

Effective Teaching Institute Instructor: Virgil G.
Cox; Price: \$15.00

1:30 - 8:00 p.m.

Registration - Coat Room
Hilton at University Place

4:00 - 6:00 p.m.

Executive Board Meeting
Burnham Room, Hilton

7:00 - 9:00 p.m.

Reception

Monday, April 9, 1990

7:00 - 9:00 a.m.

Registration - Coat Room

7:30 - 9:00 a.m.

General Breakfast - Glenwaters Room

* Campus Representatives Meeting

* Retirees Reunion Meeting

9:00 - 10:15 a.m.

General Session

Salon Room, Hilton

Presiding: Dr. Wayne Chen
ASEE Section President

Welcoming Address:

Dr. James H. Wertz, Jr. - Vice Chancellor for
Academic Affairs

Introduction of Keynote Speaker

Dr. Robert Snyder, Dean of Engineering

Keynote Address:

Dr. J. H. Woodward, Chancellor
The University of North Carolina at Charlotte

10:15 - 10:45 a.m.

Refreshment Break

10:45 - noon

Unit Meetings

* Instructional Unit Session 1 - Evaluation Walden Room

Moderator: Rhonda Hockelberg, Alabama A & M
University

"Teaching Editing Skills Within the Undergraduate
Engineering Curriculum"

Joseph E. Hummer, The University of
North Carolina at Charlotte

"Evaluation of Oral and Written Reports"

Rita Reaves, East Carolina University

"Teaching/Learning - A Continuous Process"

Fazil T. Najafi, The University of Florida

* Instructional Unit Session II - Laboratories - Keynes Room

Moderator: Robert G. Batson
The University of Alabama

"Creation of a Computer Laboratory for General
Educational Program Support in Mechanical Engineering"

William J. Craft & Shih-Liang Wang,
North Carolina A & T State University

"Videotapes for Engineering Education"

Gary H. McDonald and Edwin P. Foster,
The University of Tennessee at
Chattanooga

"A Case Study in the Value of Academic-Industrial
Cooperation in an Increasingly Competitive Economic
Environment"

Rick L. Hudson, Tubular Textile
Machinery, and
Ambrose "Bo" Barry, The University of
North Carolina at Charlotte

*** Research Unit Session - Burnham Room**

Moderator: C. Clinton Strange, Jr.
University of Central Florida

"Airport Planning and Design with CAD"

L. David Shen, Florida International
University

**"An Experimental Evaluation of Using CAD Simulations
in Teaching Basic Electronics"**

Willard S. Garren, East Carolina
University

**"Three Research Areas Associated with Thermal
Insulations Used in Residential Applications"**

David W. Yarbrough, M. Said, and M.
Destephen, Tennessee Technological
University

*** Administrative Unit Session - Olmsted Room**

Moderator: John T. Mason III,
Tennessee Technological University

Roundtable Discussion - topics to include:

- * Controls for admission to upper division courses
- * Transfer credits from various institutions,
particularly foreign
- * Transfer credit without reference to a grade
- * Other topics suggested from the floor

**Noon - 1:30 p.m. Unit Luncheons and Business
Meetings - Glenwaters Room**

*** Instructional Unit - Walden Room**

Presentation of the Tom C. Evans Award Winning
Paper and Business Meeting

*** Research Unit - Keynes Room**

Business Meeting

*** Administrative Unit - Burnham Room**

Report on Planning Factors Study
Gene Hemp/Jim Brunson
The University of Florida

**2:00 - 3:15 p.m. Division Programs - UNC
Charlotte, Smith Building
Transportation available at
University Place Hilton**

*** Mechanical Engineering Session I - Rm. 204,
Smith Bldg.**

Moderator: W. Stan Johnson
University of Tennessee

**"Design for Shock and Impact Loading: A Capstone
Design Course"**

Gladius Lewis, Memphis State University

**"Modeling Chattanooga's Historic Walnut Street Bridge in
a Mechanics of Materials Design Project"**

Gary H. McDonald
The University of Tennessee at
Chattanooga

**"Introduction to Fabrication, Processing, and Testing of
Fiberglass Composites in Undergraduate Mechanical
Engineering Curriculum"**

Ajit D. Kelkar, Robert L. Sadler, and
J. Sankar
North Carolina A & T State University

*** Civil Engineering Session I - Rm. 324,
Smith Bldg.**

Moderator: J. P. Mohsen
University of Louisville

**"Teaching with Structural Design Codes: Past, Present,
Future"**

Dewey H. Deason, Tennessee
Technological University

**"Steel 88: Automated Member Design by the LRFD
Method"**

Curtis J. Young, University of North
Carolina at Charlotte

**"A Case Study of Incorporating Computer Analysis of
Structural Systems for the Students of a Construction
Management Program"**

Mostafiz R. Chowdhury, East Carolina
University

**"Use of Computers in Civil Engineering Education at
Clemson University"**

Subhash C. Anand, Clemson University

*** Industrial Engineering Session I - Rm. 325,
Smith Bldg.**

Moderator: Jessica O. Matson, The University
of Alabama

"Truth-in-Lending Revisited"

Max L. Hailey, The University of
Tennessee Space Institute

**"Development of Instructional Laboratories for Teaching
Computer Integrated Manufacturing"**

R. Meenakshi Sundaram, Tennessee
Technological University

"Viewpoint Modeling As An Approach to Teaching
"Open-Ended" Design Concepts to Engineering Students"
Celestine A. Ntuen, North Carolina A & T
State University

*** Engineering Graphics Session I - Rm. 260,
Smith Bldg.**

Moderator: Bruno W. Strack, Memphis State
University

"High Enrollments and Solutions for Delivering
Instruction in Engineering Graphics"
Robert A. Chin, East Carolina University

"CAD Instruction on Multiple Systems"
Bill Davis, Pellissippi State Technical
Community College

"Instructional Graphics: Interactive Softcopy and
Permanent Hardcopy Using GSS*CG1"
Allen E. Leybourne, The University of
Southern Mississippi

*** Engineering Technology Session I - Rm. 102,
Smith Bldg.**

Moderator: Robert L. Douglas, Memphis State
University

"Technology in Our Future Lifetime"
Gregory F. Schumm, Wright State
University - Lake Campus

"Engineering Management: 1970, 1990, 2010"
Robert E. Magowan, Memphis State
University

"Innovative Promotion and Tenure Criteria for
Engineering Technology Faculty"
John W. Lipscomb, Jr., University of
Southern Mississippi

3:15 - 3:30 p.m. **Refreshment Break, Room 327,
Smith Bldg.**

3:30 - 4:45 p.m. **Division Programs**

*** Mechanical Engineering Session II - Rm. 204,
Smith Bldg.**

Moderator: W. Stan Johnson, University of
Tennessee

"Evolution of a Capstone Energy Systems Design Course"
B. K. Hodge and Robert P. Taylor, Jr.,
Mississippi State University

"Entropy Then Exergy or Exergy Then Entropy?"
Robert L. Young, The University of
Tennessee Space Institute

"A Simple Basic Algorithm for Determining the
Equilibrium Composition of Gaseous C/H/O/N Systems
Involving Ten Species"

Jose A. Lamas & Jeffrey W. Hodgson, The
University of Tennessee

*** Civil Engineering Session II - Rm. 324,
Smith Bldg.**

Moderator: Kenneth P. Brannan, The Citadel

"Diversity and Versatility: Preparing Students to Meet the
Challenges of the 21st Century Engineering Profession"
Judy A. Perkins, Southern University and
Georgia Institute of Technology

"20/20- A Current View of Civil Engineering
Undergraduate Education Which Incorporates
Practical Application and Problem Solving"
Thomas R. Dion, The Citadel

"Textbooks for Engineers of the Future"
Mario Paz & J. P. Mohsen, University of
Louisville

*** Industrial Engineering Session II - Rm. 325,
Smith Bldg.**

Moderator: Jessica O. Matson, The University
of Alabama

"Teaching Quality Assurance in an Industrial Technology
Program Using the Concept of the Quality Integrated
Organization"
David R. Hillis, East Carolina University

"Industry Cluster Group Model for Teaching Industrial
Engineering (Senior) Design Project"
Celestine A. Ntuen, North Carolina A & T
State University &
Ed Anderson, Fieldcrest Cannon, Inc.

"Work Methods Analyses: Utilizing Incubation Schemes"
David L. Gobeski, East Carolina
University

*** Engineering Graphics Session II - Rm. 260,
Smith Bldg.**

Moderator: Bruno W. Strack, Memphis State
University

"Twenty Years Ago - Twenty Years Hence in Engineering
Graphics"
Hugh F. Keedy, Vanderbilt University

"VLSI Design and Test in the University Curriculum"
Sami A. Al-Arian, University of South
Florida

*** Engineering Technology Session II - Rm. 102,
Smith Bldg.**
Moderator: Robert L. Douglas, Memphis State
University

"Applied Optics and the Engineering Technologist"
Roger L. Blue, The University of North
Carolina at Charlotte

"The Utilization of CAD Simulations to Enhance Learning
of Theoretical Concepts in the Electronics Laboratory"
Willard S. Garren, East Carolina
University

"Innovations in Printed Circuit Board Fabrication"
Shelton Houston & Gary Johnsey,
University of Southern Mississippi

4:45 - 5:45 p.m. **Tour of Smith Building
Laboratories**

6:00 - 7:00 p.m. **Reception - Glenwaters Room
and Patio**

7:00 - 9:00 p.m. **Awards Banquet - Salons 2 and 3**
Presiding: Dr. Wayne Chen,
President of the Southeastern
Section
Entertainment: Linda Booth,
Harpist

Tuesday, April 10, 1990

7:30 - 9:00 a.m. **Division Breakfasts and
Business Meetings - Glenwaters
Room**

Tables are numbered to represent
the following areas.

1. Instructional Unit
2. Research Unit
3. Administrative Unit
4. Mechanical Engineering
5. Civil Engineering
6. Industrial Engineering
7. Engineering Graphics
8. Engineering Technology

9:00 - 10:15 a.m. **Division Programs**

*** Mechanical Engineering Session III - Walden
Room**
Moderator: W. Stan Johnson, University of
Tennessee

"A Different Approach to Teaching Kinematics and
Dynamics of Machines"
Imtiaz Haque & Cecil O. Huey, Clemson
University

"Computer Enhanced Education in an Engineering
Laboratory"
Ching F. Lo, The University of Tennessee
Space Institute

"A Unique Industry-University Initiative -- the Black and
Decker U.S. Inc./East Carolina University Research and
Development Work Cell"
J. Barry DuVall, East Carolina University
& Richard G. Good, Black and Decker U.S.
Inc.

*** Civil Engineering Session III - Burnham Room**
Moderator: J. P. Mohsen, University of
Louisville

"Transportation Engineering Education: 20 Years Ago, 20
Years Hence"
L. David Shen, Florida International
University

"Transportation Planning: From an Economic Perspective"
Judy A. Perkins, Southern University &
Georgia Institute of Technology

"From Cornerstone to Capstone: Integration of
Professionalism and Design Throughout Four Years of a
Civil Engineering Curriculum"
Kenneth P. Brannan, Dennis J. Fallon, &
Russell H. Stout, Jr., The Citadel

*** Engineering Technology Session III -
Olmsted Room**
Moderator: Robert L. Douglas, Memphis State
University

"Educating the Educators"
William Maxwell, Nashville State
Technical Institute

"What Do You Do to Add Finite Element Methods from
Scratch"
William A. Beard, Western Kentucky
University

"Concrete Column Interaction Diagrams Using
Spreadsheet Graphics"
Curtis J. Young, University of North
Carolina at Charlotte

10:15 - 10:45 a.m. **Refreshment Break**

10:45 - Noon **Unit and Division Programs**

*** Instructional Unit Session III - Instructional Approaches to Recruiting, Orientation, and Retention - Walden Room**

Moderator: Rhonda Hockelberg, Alabama A & M University

"Minority Engineering Recruitment Program at the University of Louisville"

Brenda H. McAnulty, University of Louisville

"Freshman Orientation Course at the University of Louisville"

Gail H. Utley, University of Louisville

"Academic Advising Needs of the Growing Minorities in Engineering"

Judy Aull, Barbara Schaer, & Christine Curtis, Auburn University

"The Engineer and the Societal Dilemma: A Team Taught, Interdisciplinary Approach"

Robert J. Coleman, Richard H. Toenjes, & Thomas R. Forrest, The University of North Carolina at Charlotte

*** Instructional Unit Session IV - Teaching Design - Burnham Room**

Moderator: Robert G. Batson, The University of Alabama

"Coming to Grip with Engineering Design"

D. E. Klett, North Carolina A & T State University

"Capstone Engineering Design: A Two Course Approach"

R. H. Brown, R. C. Peterson, P. N. Sun, & F. H. Terry, Christian Brothers College

"The Role of the Senior Project in Engineering Education in P. R. of China"

S. Kant Vajpayee & X. Q. Ma, The University of Southern Mississippi

*** Engineering Technology Session IV - Olmsted Room**

Moderator: Robert L. Douglas, Memphis State University

"Identifying THE MODEL PROGRAM in Manufacturing Engineering Technology"

John Barry DuVall & David L. Gobeski, East Carolina University

"What Computer Integrated Manufacturing Requires to Get Started is NOT Automation"

David R. Hillis, East Carolina University

"Here Come the Principles of Technology (PT) Graduates! Now What?"

David L. Gobeski, East Carolina University

Noon - 1:30 P.M.

Luncheon and Section Business Meeting

1:30 p.m.

Tours TBA

SPOUSE PROGRAM - Monday, April 9, 1990

10:30 a.m.

Tour, Shopping - Cannon Village

Noon

Lunch (dutch treat)

4:00 p.m.

Depart Cannon Village

6:00 - 7:00 p.m.

Reception - Glenwaters Room and Patio

7:00 - 9:00 p.m.

Awards Banquet - Salons 2 and 3

Tuesday, April 10, 1990

Noon

Shopping at University Place
Business Meeting/Luncheon
Hilton

Registration Form

**1990 ASEE Southeastern Section Meeting
April 8 - 10, 1990, Hilton at University Place, Charlotte, N.C.**

Name _____

Preferred Badge Name _____

Title _____

Company/Affiliation _____

Mailing Address _____

City _____ State _____ Zip _____

Mail form and fee to:

ASEE Conference
Continuing Education and Extension
UNC Charlotte
Charlotte, NC 28223
telephone: 704-547-4452
after hours 704-547-2424

_____ I plan to attend the 1990 ASEE Southeastern Section Meeting. Before March 23, 1990, \$115.00, after, \$135.00; \$75.00 for retired members

_____ My spouse would like to attend the Spouse Program (\$45.00).

_____ I would like _____ additional banquet tickets (@ \$25.00).

_____ Effective Teaching Institute (\$15.00).

_____ I am enclosing a check in the amount of \$ _____ made payable to the University of North Carolina at Charlotte.

The University of North Carolina at Charlotte is an affirmative action/equal opportunity institution.

American Society for Engineering Education Southeastern Section

Officers 1989 - 1990

President	Wayne Chen, University of Florida
President Elect	Robert Mabrey, Tennessee Technological University
Past President	Robert D. Snyder, UNC Charlotte
Vice Presidents	Robert G. Batson, University of Alabama John T. Mason III, Tennessee Technological University C. Clinton Strange, Jr., University of Central Florida Jack B. Evett, UNC Charlotte
Secretary-Treasurer	
Administrative Unit	
Chairman	John T. Mason III, Tennessee Technological University
Vice Chairman	George Swisher, Tennessee Technological University
Secretary	William K. Rey, University of Alabama
Instructional Unit	
Chairman	Robert G. Batson, University of Alabama
Vice Chairman	S. Michael Wells, Tennessee Technological University
Secretary	Rhonda Hockelberg, Alabama A & M University
Research Unit	
Chairman	C. Clinton Strange, Jr., University of Central Florida
Vice Chairman	L. David Shen, Florida International University
Secretary	Stuart R. Bell, University of Alabama
Treasurer	Samuel C. Gambrell, Jr., University of Alabama
Civil Engineering Division	
Chairman	Jafar P. Mohsen, University of Louisville
Vice Chairman	Kenneth P. Brannan, The Citadel
Secretary	Edwin P. Foster, University of Tennessee - Chattanooga
Mechanical Engineering Division	
Chairman	W. Stan Johnson, University of Tennessee
Vice Chairman	George Swisher, Tennessee Technological University
Secretary	Kenneth Clark Midkiff, University of Alabama
Industrial Engineering Division	W. Stan Johnson, University of Tennessee Joseph A. Mitchell, University of ACA Vacant
Engineering Graphics Division	
Chairman	Bruno W. Strack, Memphis State University
Vice Chairman	George Lux, Virginia Polytechnic Institute and State University
Secretary	Larry Goolsby, Tennessee Technological University
Engineering Technology Division	
Chairman	Robert L. Douglas, Memphis State University
Vice Chairman	Wayne D. Andrews, East Tennessee State University
Secretary	Susan Simons, Memphis State University
Arrangements Committee	Bo Barry, UNC Charlotte David Bayer, UNC Charlotte