Minutes of the Business Meeting
ASEE Southeastern Section Administrative Unit (1988)

The Annual Business Meeting of the Southeastern Section Administrative Unit was held on Monday, April 11th, 12:45 p.m. at the Galt House in Louisville, Kentucky as part of the ASEE Zone II meeting. Those in attendance were: Dr. Richard Roberds (Vice-Chairman), University of Tennessee Space Institute; Dr. John Mason (Secretary), Tennessee Tech University; and members: Dr. Wayne Chen, University of Florida; Dr. George Swisher, Tennessee Tech University; and Dr. Robert Snyder, ASEE Section President, University of North Carolina at Charlotte.

1. The meeting was called to order at 12:45 by Vice-Chairman Roberts. He commented that Chairman Dr. Ron Cox was unable to attend this meeting.

2. Secretary John Mason read the minutes of the 1987 meeting. They were approved as read.

3. Discussion ensued about next year's program to be sponsored by the Unit at the Section meeting in Alabama. Since a conference theme had not been chosen yet, the Unit program would be on hold until probably the Fall planning meeting in Atlanta. Possible topics suggested were development, student achievement, external educational delivery systems such as FEEDS in Florida and the National Technological University, and computer-aided-administrative planning.

4. The usefulness of the Planning Factors and Salary Studies conducted by Gene Hemp and Jim Brunson at the University of Florida was reemphasized. It was hoped that they would present the 1988-89 results at the Alabama meeting.

5. George Swisher was elected secretary for 1988-89.

6. The Fall planning meeting will be held in Atlanta in September.

Respectfully submitted,

[Signature]
George M. Swisher
Secretary
ASEE ZONE II MEETING 1988
"...Together for Quality & Productivity"

PROGRAM

APRIL 9 - 12, 1988
Galt House
Louisville, Kentucky

University of Louisville
Speed Scientific School
Louisville, Kentucky
1988 ...Together for Quality and Productivity

ASEE Zone II Meeting
April 9-12, 1988

SPONSORED BY:
   North Central Section
   Southeastern Section
   Illinois - Indiana Section

HOSTED BY:
   University of Louisville
   Speed Scientific School
   Dr. Earl Gerhard, Dean

GENERAL CHAIRMAN:
   Richard H. Latimer
   University of Louisville
   502-588-7129

ASSOCIATE CHAIRMAN:
   William C. Cooley
   George Mason University
   703-323-2466

TECHNICAL PROGRAM CO-CHAIRMEN:
   Bruce Harding (Il.-Ind Section)
   Purdue University
   William C. Cooley (Southeastern Section)
   George Mason University
   Colby V. Ardis (North Central Section)
   University of Toledo

PUBLICATIONS:
   Joseph M. Biedenbach
   University of South Carolina
   Lawrence P. Grayson
   National Institute of Education

COORDINATING COMMITTEE:
   Robert A. Matthews
   Donald R. Ethington
   Don L. Dekker
   Max L. Hailey
   Gerald S. Jakubowski
   Hugh F. Keedy
   Joseph Pierce
The first ZONE II meeting is being held at the Galt House Hotel, April 9 - 12, 1988. The ZONE II meeting is hosted by the University of Louisville. The theme, "... Together for Quality and Productivity", indicates that the three ASEE sections are joining together in this meeting and have produced the first ever ASEE Zone meeting. This promises to be an exciting conference with many opportunities to interact and share our dreams with fellow colleagues. The program also offers us a chance to learn more about both Quality and Productivity in Industry and Quality and Productivity in Engineering Education.

The 1987 ASEE Annual Conference was held in Reno, Nevada and the 1988 ASEE Annual Conference will be held in Portland, Oregon. Due to limited travel budgets and busy schedules many people in the eastern part of the continent have not been able to attend these annual conferences. After some preliminary discussions, the Southeastern Section issued an invitation to the North Central Section and the Illinois-Indiana Section to experiment with the concept of a regional ASEE meeting which would be larger than the individual section meetings. The 1988 ZONE II Meeting is the result of much hard work on the part of the section officers and the program chairmen. Enjoy and Learn!!
UNIVERSITY OF LOUISVILLE

Welcome to the University of Louisville, one of the oldest institutions of higher education in the United States. With a student population of nearly 20,000. U of L offers 36 graduate, undergraduate, and associate degrees, as well as certificates in 146 fields of study through 12 colleges and schools.

Over the years, U of L has graduated more than 64,500 individuals. Of those, 60 percent have remained in Kentucky. In fact, 42 percent of Kentucky's dentists, 34 percent of the Kentucky Bar Association's membership, and 48 percent of Kentucky's engineers are graduates of U of L.

As the state university in Kentucky's most populous city, U of L has developed a sensitivity about the problems and the opportunities of urban America. Two areas of the University typify this specialization. The Health Sciences Center, located in downtown Louisville, contains the Schools of Dentistry, Medicine, and Nursing, as well as the Division of Allied Health. The Schools of Dentistry and Medicine participate in the treatment of over 160,000 people yearly. Another focus of U of L's urban expertise, the College of Urban and Public Affairs, applies an interdisciplinary approach to urban problems.

U of L's contributions extend beyond its urban mission. The University's College of Arts and Sciences and Schools of Business, Education, Engineering, Graduate Programs and Research, Law, and Music have significantly contributed to the intellectual, commercial, and cultural climate of Louisville, the Commonwealth of Kentucky, and the U.S.

As you spend time on U of L's four campuses, you'll notice a stimulating blend of old and new buildings. Over the last 15 years, more than $200 million has been spent on building new facilities and renovating existing buildings. These include a library, a chemistry research and classroom facility, a hospital, a cancer center, plus new homes for the Schools of Business, Education, and Music.

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11E1 - Cast Off Reception
Coordinator: Robert A. Mathews
University of Louisville
Place: Belle of Louisville Trip
Time: Boarding at 6:30 p.m.
Departure at 7:00 p.m.
Return at 10:00 p.m.

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Tuesday, April 12, 1988
Galt House - Louisville, Kentucky

12A1 - General Session: "ASQC and ASEE"
Moderator: Don L. Dekker
Rose-Hulman Institute
Place: Archibald Room
Time: 9:00 a.m. - 10:00 a.m.

1) "The Educational Mission of the American Society for Quality Control"
   Robert English, Purdue University
2) "The Role and Mission of The American Society for Engineering Education"
   Dr. F. Karl Willenbrock
   Executive Director - ASEE
   Washington, DC

Coffee Break - 10:00 a.m. - 10:15 a.m.

12B1 - General Session - Panel Discussion
Moderator: William C. Cooley
George Mason University
Place: Archibald Room
Time: 10:15 a.m. - 11:30 a.m.

Panel Members:
1) Robert G. Batson, University of Alabama
2) Robert English, Purdue University
3) Dennis J. Kahler, Manager of Quality Programs
   General Electric Appliance Park
   Louisville, Kentucky
4) Dr. F. Karl Willenbrock, Executive Director
   American Society for Engineering Education
   Washington, DC

12B2 - Industrial Tours
Moderator: Joseph Pierce
University of Louisville
Place: General Electric
Ford Motor Company
Time: 1:30 p.m. - 5:00 p.m.
(Meet in lobby)
11C3 - Interaction With Industry
Moderator: E.L. Widener
Purdue University
Place: Kings Head Room
Time: 2:15 - 3:45 p.m.
1) "Research Centers Of Excellence - Fantasia and Myths"
   Richard H. McFarland, Ohio University
2) "How I Got Where I Am - From Where You Are"
   Daniel N. Cole
   Southern Illinois University at Edwardsville
3) "Engineering Education in Japan: A La Sabbatical"
   Terry Ishihara, Saginaw Valley State College

3:45 p.m. - 4:00 p.m. - Coffee Break

11D1 - Computer Applications - II
Moderator: W. A. Shaw
Auburn University
Place: Queen Room
Time: 4:00 - 5:30 p.m.
1) "Signal Analysis Package (SAP)"
   Ronald C. Houtz, University of Alabama
2) "Student Prepared Programming Packages"
   Andrew C. Kellis, Timothy Pholip and William Whismer,
   Murray State University
3) "The Literature of Semiconductors, The Bradford Distribution And Library Collection Verification"
   Nazar L. Ossorio, Northern Illinois University
4) "Text On A Disk"
   William K. Dalton, Purdue University

11D2 - Faculty Development
Moderator: Bradley Harriger
Purdue University
Place: Lord Crewe/Oak Room
Time: 4:00 p.m. - 5:30 p.m.
1) "Enhancing the Quality of Engineering Through Local Area Networks"
   Robert J. Borse, Purdue University
2) "Assessing Teaching Effectiveness in Engineering Education"
   Winfield A. Shaw and A. S. Wilke, Auburn University
3) "Faculty Evaluation, By The Numbers"
   Robert D. Hach and R. R. Lundstrom,
   Lawrence Institute of Technology
4) "The Role of the Academic Advisor In Undergraduate Engineering Education"
   Brian Aker, Western Michigan University

11D3 - Non-Traditional Education
Moderator: Sayed Kazem
Purdue University
Place: Gohick Room
Time: 4:00 p.m. - 5:30 p.m.
1) "Temporary As Permanent"
   Joseph J. Tassett, Purdue University
2) "An Experience in Preparing Minority & Women High School Students For Pursuing A Career In Science Or Engineering"
   Luke M. Snell and Jacob H. Van Roekel,
   Southern Illinois University at Edwardsville
3) "Quality Higher Education For The Incarcerated Student"
   Richard L. Taylor and L. Edward Badnar,
   Purdue University
4) "Technical/Industrial Programs Interface With Business Courses"
   Thomas A. Knapp and Gregory F. Schum
   Wright State University-Lake Campus

SPEED SCIENTIFIC SCHOOL

HISTORY

The Speed Scientific School was established in September of 1924, as a result of an endowment from the James Breckenridge Speed Foundation, a memorial to the late James Breckenridge Speed created by his son and daughter, Dr. William S. Speed and Mrs. Olive Speed Sackett of Louisville. The income from this endowment is used exclusively as a supplementary means of support of the activities of the school.

James Breckenridge Speed (1844-1912), an industrial pioneer in the City of Louisville, was the scion of an illustrious Kentucky family. He was a leader in the establishment of Louisville's street railway system.

He also developed and operated large coal interests in the State of Kentucky and was among the first to recognize the place Portland Cement would have in the growth of America. The industries in which he maintained an active interest until his death in 1912 have been an anachronism around which the City of Louisville and its greater metropolitan area have grown to their present industrial stature. It is fitting that his memory be perpetuated in an engineering school bearing his name.

Dr. William S. Speed and Mrs. Olive Speed Sackett contributed liberally to the building of the school, having made additional grants toward the erection of the James B. Speed Building, Frederic M. Sackett Hall, and William S. Speed Hall. Mrs. Virginia Speed, wife of Dr. Speed, also generously assisted the school with gifts and other benevolences essential to its continued success, prior to her death in 1969.

THE OPPORTUNITY

The most important decision facing the young high school graduate is choosing a career. One desires a career that will provide the essentials necessary for happiness; a worthy and challenging goal, a good life, a satisfactory income, an opportunity for service, and the respect of others.

By choosing a career as either an engineer or a technologist, a young man or woman will become actively involved in the myriad of technological and scientific breakthroughs which are rapidly changing our way of life, and they will find their chosen career to be among the most challenging and rewarding of the modern learned professions.

To prepare for this challenging work requires the best and most thorough education available. One's high school education should include a basic background of mathematics and science, as these are the disciplines upon which successful engineers and technologists must depend in the pursuit of their professions.

Because of this, students contemplating a career in engineering should have a genuine interest in these subjects, and should have demonstrated ability in them. They should also have an adequate background in English, history, civics, government, literature, and languages. A digital computer language course, e.g. BASIC, should be scheduled, if available, since all engineering disciplines use computers extensively for analysis and design, for control of dynamic systems, for statistical research, and for simulation of systems.

In addition to these academic considerations, one interested in a career in engineering or technology, as in all other learned professions, should have demonstrated the ability to persevere. Because of the demands of these professions adequate preparation is a rigorous process. One aspiring to a career in engineering or technology must have the ability to pursue a professional goal, to work at a problem until it is solved, to refuse to surrender to the easy way out. This kind of training is not taught in books. If one has a desire for success, a willingness to work hard, and a determination to make whatever sacrifices are necessary in obtaining an education, then the prospective student in engineering or technology is well on the way toward success in the career he or she has chosen.

The principal purpose of the Speed Scientific School is to give the student thorough, well-balanced training in engineering and applied science as preparation for entry into the profession of engineering or the profession of engineering technology.

Toward the accomplishment of this goal, the faculty of the Speed Scientific School offers three separate and distinct professional curricula: engineering programs, information science and data processing programs, and engineering technology programs.
WELCOME TO LOUISVILLE

How Louisville Began

The history of Louisville began over 200 years ago, on May 27, 1778 when Gen. George Rogers Clark, his soldiers and their families established a settlement to serve as a supply base in their successful wresting of the Northwest Territory from the British.

In spite of Indian attacks and wilderness hardships, the settlement grew and was incorporated as a town on May 1, 1780. Thomas Jefferson, governor of Virginia, signed the city charter, since Kentucky was a county of Virginia at that time.

Gen. Clark named the town to honor King Louis of France in appreciation for French aid during the Revolutionary War. (Ironically, in 1792, the year of Kentucky's statehood, Louis became a victim of the French Revolution.) A statue of King Louis is at the Jefferson County Court House.

Louisville grew steadily. It was the hub of early trails like Daniel Boone's Wilderness Road and a center of Ohio River commerce when the Louisiana Purchase of 1803 opened the Ohio and Mississippi Rivers to the sea.

The invention of the steam boat made river commerce easier and shipbuilding and rope making became important Louisville industries. (The Belle of Louisville, which now offers cruises, is a nostalgic reminder of the importance of riverboat transportation.)

During the "Riverboat Era," the Louisville-Portland Canal was built. The two-mile span, which connected Louisville and Portland, took five years to complete and eliminated the hardship of transporting cargo overland around the Ohio River Falls (the river drops 26 feet in only two miles). One section of the giant "Z" shaped McAlpine Dam is visible from downtown and the entire area can be visited via Northwestern Pkwy. and 26th Street.

11B3 - Laboratories
Moderator: Richard A. Springman,
University of Toledo
Place: Lord Crew/Oak Room
Time: 10:30 a.m. - 12:00 Noon

1) "Integration Of Printed Circuit Board Laboratory Into Electronics Curriculum"  
   Samuel V. Bell, Jr., Verne E. Baxter, V. E. Baxter, and  
   Carl L. Colbert,  
   University of Louisville

2) "EMTP In The Classroom?"  
   R. Thomas Laskyvich,  
   Pennsylvania State University/Monaca

3) "A Laboratory Course In Digital Electronics & Microprocessors  
   For Mechanical Engineers"  
   Stuart Wilkenson,  
   University of South Florida

4) "Laboratory Projects Increase Productivity"  
   Harold L. Broberg,  
   Indiana Purdue University

12:00 p.m. - 2:15 p.m. - Lunch

11C1 - Manufacturing - II
Moderator: James M. Daschbach,  
University of Toledo
Place: Old River Room
Time: 2:15 p.m. - 3:45 p.m.

1) "A Manufacturing Work Cell Phase III"  
   Marvin E. Reed and Joseph W. Schaud  
   Pennsylvania State University/McKeenston

2) "Laboratory Facilities for Instruction in Automation and  
   Computer Aided Manufacturing"  
   Michael P. Deisenroth  
   Virginia Polytechnic Institute & State University

3) "Quality Education in Manufacturing Engineering and  
   Engineering Technology Requires Revision Or The Vision"  
   Terso Pojol and Robert E. Spackert,  
   Miami University, Ohio

4) "Academic Islands Of Automation"  
   Osama Mohamed and Robert E. Spackert,  
   Miami University, Ohio

11C2 - Civil Engineering
Moderator: Donald R. Ethington,  
University of Louisville
Place: Waterfront Room
Time: 2:15 p.m. - 3:45 p.m.

1) "Spreadsheet Solutions Of Selected Problems In  
   Structural Analysis"  
   Harry C. Saxe (for the late Thomas C. Evans, Jr.)  
   The Citadel

2) "A Center For Excellence In Construction Safety"  
   Mustaz A. Ussman  
   West Virginia University

3) "Using The American Concrete Institute's Contest To Teach  
   Concrete Technology"  
   Luke M. Smith  
   Southern Illinois University at Edwardsville
11A2 - Teaching Methods
Moderator: Harry C. Saxe
*The Citadel*

Place: *Kings Head Room*
Time: 8:30 a.m. - 10:15 a.m.
1) "Teaching Mechanics Using Mixed Units"  
Paddy P. Paddy,  
*Tennessee State University*
2) "Do Your Homework Assignments and Quizzes Prepare Your Students For Your Exams?"  
Charles F. Yokomoto, Walter Buchanan  
*West Virginia University*
Russell K. Dean, *Indiana Purdue University Ind.*
3) "Effective Teaching"  
Kenneth N. Long,  
*Georgia Southern College*

10:15 a.m. - 10:30 a.m. - Coffee Break

11B1 - Manufacturing - I
Moderator: M.P. Deisenroth,  
*Virginia Polytechnic*

Place: *Old River Room*
Time: 10:30 a.m. - 12:00 Noon
1) "Investigations Of Design Methodology For Superior Products"  
Clarence C. Wilson,  
*University of Tennessee*
2) "A Multiprocessor System For process Control Applications"  
S. Ganapathi and Ramachandran R. Sharma,  
*Oakland University*
3) "Introducing Curves And Surfaces In The Beginning NC Course"  
Wesley L. Baldwin,  
*Rail State University*
4) "Development and Operations of A Manufacturing-Robotics CIM Laboratory"  
John A. Fails,  
*University of North Carolina*

11B2 - Civil & Mining Engineering
Moderator: Colby V. Ardis,  
*University of Toledo*

Place: *Gothick Room*
Time: 10:30 a.m. - 12:00 Noon
1) "Improving CE Laboratory Teaching Through The Use Of Microcomputers."  
Chang Lin and Jianyou Li,  
*Southern Illinois University at Edwardsville*
2) "Ram Design: A Project Oriented Approach"  
Richard P. Ray and Michael E. Meadows,  
*University of South Carolina*
3) "The Salient Distinctions of Mining Engineering"  
G. T. Lawberry and Lawrence Adler,  
*University of Kentucky*
4) "Strength of Materials Laboratory"  
Kazam M. Sarkini., Colby V. Ardis, Gerald R. Frederick and  
George J. Mythen,  
*University of Toledo*

ADVANCED REGISTRATION
Meeting, planning, and scheduling, especially for ticketed events, will be greatly aided by your advance registration. Significantly lower registration fees are given to those who register early. You may register in advance by completing the enclosed form and returning it with all applicable fees no later than March 18, 1988.

**AAE ZONE II MEETING**
Richard H. Latimer, General Chairman
209 J. B. Speed Hall
University of Louisville
Louisville, KY 40292

On-site registration may be completed at the Galt House Meeting Center, Third floor cost room, located in the Galt House. Registration will be open during the following hours:
Saturday, April 9 8:00 a.m. - 9:00 p.m.
Sunday, April 10 7:30 a.m. - 9:00 p.m.
Monday, April 11 7:30 a.m. - 5:00 p.m.
Tuesday, April 12 7:30 a.m. - Noon
During these hours, the ASEE ZONE II Registration Center can be reached at (502) 589-5200.

**HOTEL ACCOMMODATIONS** (See form from Galt House for rates)
Southern Hospitality - Louisville Style
Louisville is a charming and gracious city on the Ohio with a rich variety of activities. One of our most famous is Churchill Downs, where you can sip a mint julep and watch the sport of kings. You may even want to risk a wager on one of our sleek thoroughbreds.

Of course, you have the Ohio and our timeless beautiful Belle of Louisville right at your doorstep...but don't be content to just gaze at her. Take one of the lazy, languid tours she offers and see our city from the river.

If it's culture you seek, the Galt House is within walking distance of our historic Main Street Preservation District. Main Street boasts one of the nation's finest regional theaters, Acton's Theater of Louisville! The playbill at Acton's Theater is one of the most diverse and exciting anywhere...with a potpourri of the Classics, avant garde and original productions. Main Street also features our new Museum of Natural History and restaurants with exciting and delicious bills of fare.

But that's just a hint of what Louisville has to offer...there's the Louisville Zoo, the J. B. Speed Art Museum, the huge Commonwealth Convention Center, plus hundreds of shops and restaurants. And, just a short drive away, is where you'll find some of the richest, most beautiful horse farms in the world!

And, here, in the center of it all is the Galt House. Room reservations at the meeting hotel should be made prior to March 8, 1988; room will be available after this date, but they will not be held solely for Zone II members.

**TRANSPORTATION**
AIR
Louisville Standiford Field has commuter air service from all points throughout Zone II. Shuttle service from Standiford Field to the Galt House is available to use airport shuttles, indicate arrival time and flight number on conference meeting form.
BUS
Louisville is served by Greyhound and Trailways Bus Lines with service to all major points throughout Zone II.
AUTO
The Galt House is located adjacent to the intersection of I-64 and I-65 for easy access for all directions with convenient free parking provided. Four major rental car agencies are within 5 minutes of the hotel. Local transportation is provided by the conference for all Zone II events.

**EXHIBITS AND DISPLAYS**
Exhibits will be located in the Court Delauqy Room. Displays will include Engineering Textbooks, Equipment and Accessories for Laboratories and/or Classroom Demonstrations, Computer Software and Hardware, and other State-of-the-Art Tools applicable to the Theme of the Conference."Together for Quality and Productivity."
Exhibit area will be open from 5:00 p.m. - 9:00 p.m. Saturday and from 11:00 a.m. to 6:00 p.m. Sunday; 9:00 a.m. to 6:00 p.m. Monday, and 9:00 a.m. - 1:00 p.m. Tuesday.
9A1 - 3D PC-CADD WORKSHOP
Moderator: Hugh Keedy
Vanderbilt University
Time: 9:00 a.m. - 5:00 p.m.
Place: University of Louisville Engineering Graphics Bldg.
(box lunch provided)
Cost: $35.00

This workshop will provide an introduction to three-dimensional CAD using a personal computer. The concepts of 3-D will be presented along with their applications using CADKEY software. The morning session will focus on the basics of creating and manipulating lines, circles, and arcs and how they are combined into three-dimensional databases. The afternoon session will delve further into creation of three-dimensional representations. Attendees will have an opportunity to develop their skills through exercises that reinforce the principles covered.

Each participant will receive a copy of a newly published text, an introduction to CAD using CADKEY. The author of the book, Hugh F. Keedy, Ph.D., will conduct the workshop. Arrangements can be made for educators who do not have access to CADKEY to receive a free educational version of CADKEY for use on their campuses.

This workshop assumes that participants have little or no knowledge of either CAD or CADKEY, however, the format will be such that those familiar will have ample opportunity to expand their skills during the workshop.

9A2 - EFFECTIVE TEACHING INSTITUTE
Problem Solving and Learning Styles
Moderator: Jim Stice
University of Texas at Austin
Time: 1:00 p.m. - 5:00 p.m.
Place: Colt House
Cost: $10.00

In this ETI Jim combines two topics which are important to the teaching/learning process:

The problem solving part discusses course objectives, problem solving strategies and pairs problem solving in the classroom.

In the learning styles part, you will discover your own learning style and begin to understand other learning students with our own learning style. It is imperative that we understand other learning styles to truly be effective in the classroom.

About the Presenter:
Jim Stice is the Director of the Center for Teaching Effectiveness at the University of Texas at Austin. He also continues to teach Chemical Engineering classes. His Effective Teaching Institutes have always been well received by the participants and they always are participatory. That is, you learn by doing and getting involved.

Plan to attend this timely and exciting Effective Teaching Institute!

10D1 - CAD and Computer Graphics - I
Moderator: Bruce A. Harding, Purdue University
Place: Numn Room
Time: 4:00 p.m. - 5:30 p.m.
1) "4 CAD Tool for Discrete Component Digital Design" Bruce L. George, Air Force Institute of Technology
2) "Micro-Based CAD: High Technology For Increased Productivity & Quality of Engineering Designs" Kenneth Kihara and Linda A. Duricko, University of Akron
3) "The NC Programmer: A Part of Continuing Education" Richard H. Latimer, University of Louisville
4) "AutoCAD and CNC" Othmar J. Mohammad, Miami University

10D2 - Educational Quality
Moderator: Max L. Hailey, University of Tennessee/Chattanooga
Place: Breathitt Room
Time: 4:00 p.m. - 5:30 p.m.
1) "Statistical Training For All Engineers: A National Necessity" Robert G. Boston, University of Alabama
2) "Computer Systems Engineering Technology - A Unique Curriculum" Robert L. Douglas, Kenneth D. Cremer, Memphis State University
3) "Pre-Control: An Approach To Quality That Should Be Taught" Robert L. Magowan Memphis State University
4) "Joint Efforts To Establish Quality Assurance Programs Industrial Engineering/Statistics" Linda Malone and William Swart, University of Central Florida

RECEPTION
6:00 p.m., Galt House, Archibald Room

AWARDS BANQUET
7:00 p.m., Galt House, Cochran Room

Monday, April 11, 1988
Galt House, Louisville, Kentucky

11A1 - CAD and Computer Graphics - II
Moderator: James Weiss, University of Alabama
Place: Queen Room
Time: 8:45 a.m. - 10:15 a.m.
1) "Discrete Gradient Optimization: A Graphics Demonstration" J.C. Hill, University of Louisville
2) "Assessment Of The Relationships Between Amount of Visual Education, Visual Perception, and Picture Memory For Technical Illustration Students" Scott E. Wiley, Purdue University
3) "Polygon Modelling: An Initial Phase of CAD Education" Larry K. Goobies and Rhino Al-Qutam, Tennessee Technological University
4) "Microcomputer Graphics Interfacing For The Visual Verification of Material Quantities" Walter E. Rodriguez-Ramos, Georgia Institute of Technology
Technical Program  
Sunday, April 10, 1988  
Galt House, Louisville, Kentucky

10B1 - Keynote Session  
Moderator: William C. Cooley  
George Mason University  
Place: Archibald Room  
Time: 1:00 p.m. - 2:00 p.m.  
1) "America's Competitive Crisis -- Is Engineering Education to Blame?"  
Dr. A. Blanton Godfrey  
Chairman and CEO  
The Juran Institute

10C1 - Design Projects  
Moderator: William C. Cooley,  
George Mason University  
Place: Kings Head  
Time: 2:15 p.m. - 3:45 p.m.  
1) "A Report Of Experience Using Faculty Juries For Administration and Evaluation In A Capstone Design Courses"  
Cecil O. Huey, Jr. and Eugene H. Bishop,  
Clemson University  
2) "Assessing The Quality In Student Design Projects"  
Susan A. R. Garrod,  
Purdue University  
3) "Digital Logic Design: An Example of Non-Numeric Processing"  
J. C. Hill,  
University of Louisville  
4) "Teaching Engineering Methods Through A Freshman Design Project"  
David B. Meredith,  
Pennsylvania State University

10C2 - Computer Applications - I  
Moderator: Robert A. Matthews  
University of Louisville  
Place: Queen Room  
Time: 2:15 p.m. - 3:45 p.m.  
1) "Development Of Knowledge Based Expert System Programs On Micro-computers And Their Applications"  
Javed Alam,  
Youngstown State University  
2) "Integrating Spreadsheet Modeling Into A Mechanics Courses"  
W. David Cress,  
Marietta College  
3) "A Computer Assisted Instruction Program To Enhance The Education of Statistical Quality Control"  
Susan M. Simons,  
Memphis State University  
4) "V and M Pencilpoint"  
Mark P. Rizzo, G. Raffaelle and A. Korn  
Southern Illinois University at Edwardsville

3:45 p.m. - 4:00 p.m. - Coffee Break

SPECIAL EVENTS

EVENING AT THE THEATRE  
At the modern Kentucky Center for the Arts, experience the Opera "Il Trovatore".

RELIGIOUS SERVICES  
Religious services are available. A list will be provided in your registration packet of services in historic churches in Downtown Louisville.

KEYNOTE SPEAKER:  
Dr. A. Blanton Godfrey  
Chairman and CEO  
The Juran Institute  
Topic: "America's Competitive Crisis -- Is Engineering Education to Blame?"

UNIVERSITY OF LOUISVILLE TOUR  
Tours of the University of Louisville's new Factory Automation Building and Engineering Graphics Building will be available during the meeting. A map of the University and location will be made available.

BELLE OF LOUISVILLE  
The Belle of Louisville, built in 1914, is the oldest operating steamboat on the Mississippi River and part of the National Historic Register. The cruise on the Belle reflects the nostalgic, colorful life that played such an important role in the growth of Louisville. Once on the Belle you will be able to enjoy calliope music known for the unusual tones that entertain passengers with songs that reach back to those golden years. Hors d'oeuvres served on the main deck and entertainment on the ballroom deck. This evening will be an experience that is different and more exciting than any other.

INDUSTRIAL TOURS  
1. General Electric Appliance Park  
Factory Automation Tour  
2. Ford Motor Company  
Bronco II and Ranger Truck Plant  
Bronco II and Ranger Assembly Tour  
(Choose one tour - limited to 50 participants each)

SPOUSE PROGRAM  
No trip to Louisville would be complete without a tour of Churchill Downs, the "Home of the Kentucky Derby". The view of the new Kentucky Derby Museum and the beautiful grounds of the track will delight the novice or most ardent racing fan. Lunch will be served in the Stallion Stakes Restaurant adjacent to the Museum. Next stop will be Locust Grove, the historic home of the founder of Louisville. This home has been restored to its original splendor as it appeared in 1790 when George Rogers Clark lived there. Join the ASEE tour and thoroughly get to know Louisville!
<table>
<thead>
<tr>
<th>Time</th>
<th>SATURDAY, APRIL 9</th>
<th>SUNDAY, APRIL 10</th>
<th>MONDAY, APRIL 11</th>
<th>TUESDAY, APRIL 12</th>
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<tbody>
<tr>
<td>7:00</td>
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<td>Reserved for Religious Services 7:00 a.m. - 11:00 a.m.</td>
<td>Breakfast 7:00 a.m. - 8:30 a.m.</td>
<td>Breakfast 7:30 a.m. - 9:00 a.m.</td>
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<tr>
<td>9:00</td>
<td>Workshop</td>
<td>CADKEY 9:00 a.m. - 5:00 p.m. University of Louisville Engineering Graphics Bldg.</td>
<td>11A1 - CAD and Computer Graphics 8:45</td>
<td>12A1 - General Session 9:00 a.m. - 10:00 a.m.</td>
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<tr>
<td>11:00</td>
<td>Brunch</td>
<td>11:00 a.m. - 12:45 p.m. Fountain Room</td>
<td>11A2 - Teaching Methods 9:00</td>
<td>*ASQC and ASEE COFFEE BREAK 10:15</td>
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<tr>
<td>12:45</td>
<td>Registration</td>
<td>1:00 p.m. - 5:00 p.m. Third Floor Coat Room</td>
<td>10B1 - Keynote Speaker Dr. A. Blanton Godfrey 1:00 p.m. - 2:00 p.m.</td>
<td>12B1 - General Session 10:15 a.m. - 11:30 a.m. Panel Discussion</td>
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<tr>
<td>1:00</td>
<td>Workshop</td>
<td>Effective Teaching Institute 1:00 p.m. - 5:00 p.m. Galt House</td>
<td>10C1 - Design Projects 1:00 p.m. - 2:00 p.m.</td>
<td>Lunch - Section and Division Meetings 11:45 a.m. - 1:00 p.m.</td>
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<tr>
<td>2:15</td>
<td>Registration</td>
<td>1:00 p.m. - 5:00 p.m. Third Floor Coat Room</td>
<td>10C2 - Computer Applications</td>
<td>Industrial Tour 1:00 p.m. - 5:00 p.m.</td>
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<td>3:30</td>
<td>Reception and Exhibits open 5:00 p.m. Court/Dell Quay</td>
<td>Reception and Welcome 6:00 p.m.</td>
<td>10D1 - CAD and Computer Graphics</td>
<td>11C3 - Interaction with Industry</td>
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<td>3:45</td>
<td>Awards Banquet</td>
<td>7:00 p.m. Archbald/Cochran</td>
<td>10D2 - Educational Quality</td>
<td>3:45</td>
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<td>COFFEE BREAK 4:00</td>
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<td>5:00</td>
<td>Kentucky Center for the Arts</td>
<td>Opera: &quot;Il Trovatore&quot; 8:00 p.m. - 11:00 p.m.</td>
<td>11B1 - Manufacturing 5:00</td>
<td>11D1 - Computer Applications 5:00</td>
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<td>11B2 - Civil Engineering and Mining</td>
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<td>11B3 - Laboratories</td>
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