

# Division newsletter



American Society for Engineering Education

DIVISION: Civil Engineering

EDITOR: Tom Mulinazzi, University of Kansas

DATE: March 1992

## REMARKS FROM THE OUTGOING SECRETARY - TREASURER

This has been both a rewarding and a frustrating job for the past five years. I have gotten to know many Civil Engineering faculty from all over the United States by being able to attend the past five national ASEE meetings. Those experiences have been the rewarding side of this job.

The frustrating elements stem from two parts; one I was responsible for and one was caused by the national headquarters of ASEE. Noel Tolbert and Dean Parsons, during their tenure as Division chairs, were always calling me about my tardiness with this newsletter. I always have had trouble getting this newsletter to print. I know that Howard will do a better job.

The second source of frustration was associated with the Treasurer's segment of this job. The national headquarter's accounting system has been in a constant turmoil during the past five years. The system has improved lately so they may have solved their problem. Howard, good luck in this regard.

**The George K. Wadlin Distinguish Service Award**  
was presented to  
*Marvin Criswell*

**THE ASEE Best Paper Award for 1991**  
was presented to  
*Al Ingersoll*



3. Communication skills.
4. Attitude (all too often the new engineer brings a technician mentality to the job).
5. Teamwork.
6. Computer literacy (particularly the ability to interpret computer results).
7. Insight (when to change direction and how).
8. Interest in advanced study (graduate and/or continuing education).

*Richard J. Cabiro*  
 Director  
 Waldemar S. Nelson & Co.  
 New Orleans, LA

Bringing the perspective of a large consulting firm, Mr. Cabiro particularly noted shortcomings in communication and drafting skills. He felt that there should be more crossover between engineering areas, e.g. civil engineering students should take more mechanical and electrical courses. More emphasis should be placed on the constructability of a project, and there should be more exposure to design aids.

Speaking more broadly, mechanical engineering students should have more exposure to practical engineering applications, and electric engineering students should work with codes. All students should have a better understanding of instrumentation.

All curricula need to better address topics such as ethics, professional registration, and professionalism.

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**1991 Annual Conference, American Society for Engineering Education  
 Civil Engineering Division**

Session #1615 -- "The Civil Engineering Curriculum for the Year 2001"

Session Summary  
 by Ron Eck  
 West Virginia University

This session looked at three widely different areas that might be incorporated into

the civil engineering curriculum of the future. Willy Sadeh and Marvin E. Criswell of Colorado State University described "Space Civil Engineering - An Emerging Discipline." A variety of civil engineering challenges must be addressed in order that 21st Century space inhabitants will have the shelter and life support systems needed to function in that environment. The Civil Engineering curricula of the future should prepare at least some graduates to practice Space Civil Engineering. The authors described educational programs in Space Civil Engineering currently being developed at Colorado State University under the NASA Colorado Space Grant College Consortium Program. An undergraduate option which supplements the existing Civil Engineering program through a cluster of classes and which can be taken within the existing elective structure is being developed.

Dr. William S. Gaither, President of the Weston Institute, described the Institute - "An Innovative Approach to Stimulating Environmental Education and Research Among Business, Industry, Government and Academia." The Institute is a relatively new not-for-profit organization established to increase the number of professionals and technicians being educated to enter the environmental field. The Institute has developed and conducted education, research, and knowledge transfer programs that cover the range from early learning experiences through post-graduate continuing education. Specific programs include fellowships and scholarships, major research programs, collaborative masters degree programs, Student Projects in Higher Education for Research in the Environment (SPHERE), and high school science fairs. In all educational programs, degrees are awarded through established academic institutions.

Ron Eck and Bill Wyant of West Virginia University stressed the need for more team experiences in the undergraduate curriculum in their presentation "Team-Building in the CE Classroom -- Why and How." Practitioners report that engineering graduates are often unable to contribute to project design teams since they have worked independently as students. In practice, virtually all decision-making is done in a group setting; thus team projects should be an essential part of civil engineering education. However, how to

cover these concepts and at what level are questions that faculty interested in this area must address. The presentation explored some of the elements of team-building that are relevant to CE education. The details of an approach used, at West Virginia University, to introduce team-building were outlined along with discussion of constraints that may limit what can be done. In addition to their team-building activities within civil engineering, the presenters received an institutional grant to develop a multi-disciplinary problem-solving experience for senior-level students across campus. The course, which focuses on team-building, problem-solving, and project management (with an intensive writing experience), was briefly described.

*Prepared by R. W. Eck  
Session Moderator*

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## KNOW YOUR CANDIDATES

### Chair Candidate

#### Fred Beaufait

Fred Beaufait is Dean of Engineering at Wayne State University in Detroit. Since earning his Ph.D. at Virginia Polytechnic Institute in 1965, Fred has been on the faculty at Vanderbilt University and West Virginia University.

He has held the following positions with ASEE: Southeastern Section Chairman of Young Faculty Delegates; Activities Coordinator for 3 years at Vanderbilt; Southeastern Section-Civil Engineering Division Vice Chairman; Civil Engineering Division Secretary-Treasurer 1979-1982 and Editor of Division Newsletter 1982-1985; Editor CIVIL ENGINEERING EDUCATION for Civil Engineering Division 1-85 to 8-86; Director, Engineering Research Council 85-87; Chairman, Engineering Research Council FORUM, 1987; North Central Section Board of Directors, 1987 to present; Faculty Pipeline Task Force, 1988 to present. Fred is also active in ASCE, ACI, Order of the Engineer, NSPE and ABET.

## Vice Chair Candidates

### Robert Henry

Robert M. Henry is an Associate Professor in Civil Engineering at the University of New Hampshire. He joined the Department of Civil Engineering in 1980 after receiving his Ph.D. from the University of Pennsylvania. He is a registered professional engineer and has worked for several structural engineering consultants in Pennsylvania, New Jersey and New Hampshire.

Bob is a member of the ASCE Technical Council on Computer Practices (TCCP) Education Committee (secretary 1989, vice-chair 1990). In addition, he has reviewed papers for several ASCE journals and for the ASEE Civil Engineering Division Journal. This past April was a cochair of the Computer Track at the ASCE National Forum on Education and Continuing Development held in Las Vegas.

Bob's involvement with ASEE began in 1984. In 1986 he received the DOW Outstanding Young Faculty Award at the ASEE Conference in Cincinnati, chaired sessions at the 1987, 1988, and 1989 ASEE national conferences, and was elected as one of the three directors of the Civil Engineering Division in 1987.

### Thomas Mulinazzi

Thomas E. Mulinazzi has just been selected as the Associate Dean of the School of Engineering at the University of Kansas. He joined the Civil Engineering Department in 1979 after being at the University of Maryland for six years. His Ph.D. is from Purdue University. He is a registered professional engineer and a registered land surveyor.

Tom has been active in ASEE since 1979. He has been chairman of the Midwest Section, selected the outstanding campus representative for Zone III and has served as the Civil Engineering Division's secretary-treasurer for the past 5 years.

## Secretary-Treasurer Candidate

### Howard Dunn

Howard is on the faculty of the U.S. Coast Guard Academy. Howard Dunn is currently a professor and the Head of the Civil Engineering Department at the U.S. Coast Guard Academy. He has been the ASEE campus representative at the Coast Guard Academy for the past 15 years. Howard has attended many of the recent national ASEE meetings and is very enthusiastic about serving the Civil Engineering Division as the Secretary/Treasurer Newsletter Editor.

## Director Candidates

### David W. Hubly

Dr. David Hubly is an Associate Professor of Civil Engineering at the University of Colorado at Denver. He teaches undergraduate and graduate courses in the water supply, wastewater, and civil engineering design areas. He has been a member of the Civil Engineering Faculty since 1978 and has just completed four year term as Chair of the Department. Prior to joining CU-Denver, he was a consulting environmental engineer, and his first career was selling truck mixers and batch plants to the ready mixed concrete industry. His education includes a BSCE, MSCE, and a PH.D in Civil Engineering, all from Iowa State University. His professional service has included serving as President of the Rocky Mountain Water Pollution Control Association, Director of the Water Pollution Control Federation, and as a member of the Colorado Water Quality Control Commission. For this academic year, Dr. Hubly is teaching at Qatar University on a Fulbright Scholarship.

### Thomas K. Jewell

Thomas K. Jewell is the Carl B. Jansen Professor of Civil Engineering at Union College. He was department chairman from 1986-1990, and has been employed by Union since 1978. His textbook, Computer Applications for Engineers, was published in 1991 by John Wiley and Sons. He has 4

published one other textbook, and a number of technical papers. His ASEE activities have included chairman of the Awards Committee, member of the Civil Engineering Division Committee on Computer Practices, and campus representative. He has been a member of ASEE since 1978.

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## See You in Toledo

*The Civil Engineering Division has a busy schedule arranged for the Toledo meeting.*

### **Agenda for Civil Engineering Division**

#### **Sunday, June 21**

- \*Civil Engineering Accreditation Forum

#### **Monday, June 22**

- \*C.E. Division Executive Board Breakfast
- \*Directions in Environmental Engineering Education
- \*C.E. Division Business Luncheon
- \*Should MSCE Be Awarded to Non C.E.'s
- \*C.E. Rap Session

#### **Tuesday, June 23**

- \*Design Creativity Throughout the C.E. Curriculum
- \*C.E. Division Planning Luncheon
- \*Do's & Don't's Associated with the Integration of Computers into C.E. Programs
- \*C.E. Divisions Dinner and Social

#### **Wednesday, June 24**

- \*Improving Fundamentals Exam Performance
- \*Chi Epsilon Luncheon

**ASEE CIVIL ENGINEERING DIVISION BALLOT**

**Officers for 1992-1993**

**Chair (Vote for one)**

Fred W. Beaufait

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write in

**Vice Chair (Vote for one)**

Robert M. Henry   
Thomas E. Mulinazzi

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write in

**Secretary-Treasurer (Vote for one)**

Howard Dunn

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write in

**Director (Vote for one)**

David W. Hubly   
Thomas K. Jewell

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write in

Return Ballot by April 20, 1992 to: *Edward Reitz*  
*Professor of Applied Mechanics*  
*City University of New York*  
*New York, N.Y. 10031*

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