

Division newsletter



American Society for Engineering Education

DIVISION: CIVIL ENGINEERING
EDITOR: FRED BEAUFAIT
DEPARTMENT OF CIVIL ENGINEERING
WEST VIRGINIA UNIVERSITY

DATE: NOVEMBER, 1980

CHAIRMAN'S REMARKS

The theme of the 1981 ASEE Annual Conference is "Education and Industry: A Joint Endeavor". For Civil Engineering this is particularly appropriate because we will need the cooperation and assistance of industry to meet the present problems of hiring and retaining quality faculty and of motivating students toward graduate school and academic careers of teaching and research in Civil Engineering.

The present situation of the demands of industry exceeding the supply of engineering graduates will continue for several years. This situation has resulted in a decrease in the pool from which engineering faculty are drawn and thereby makes the present problem of providing excellence in engineering education more difficult. Industry will have to become more involved in the education of engineers or there will be an even greater shortfall of engineers than presently anticipated. An example is the anticipated demand for engineers to design, construct, and operate the proposed synfuel program necessary for the future energy requirements of this country.

I would emphasize the same points made by Eugene Chesson, last year's chairman of CE Division, that we encourage students toward academic careers, encourage the CE faculty to become active members of ASEE and significantly increase the number of members from industry in ASEE. It is through the interaction of the academic institutions and industry that future needs of both groups will be successfully met. The 1980 program is designed to provide one forum for the interaction between industry and academic institutions.

The program developed by the committees of the CE Division outlined in this issue of Newsletter is an effort toward the objective of a joint endeavor between industry and civil engineering education.

ANNUAL BUSINESS MEETING

The annual business meeting was called to order by Chairman Eugene Chesson, Jr. There were fifty-two members of the Division in attendance. The minutes of the 1979 meeting were accepted as published in the Fall 1979 issue of the Newsletter.

Chairman Chesson introduced the officers for 1979-80 and Professor Peter Hoadley introduced the Associate Editors of CIVIL ENGINEERING EDUCATION, the publication sponsored by the Civil Engineering Division. Professor Hoadley, editor of our division's journal, spent a moment discussing the journal and encouraged those present to submit papers for review for possible publication in the journal.

The Chairman then introduced the Chairman of each of our Standing Committees: Committee 1 - Educational Policy, Jim McDonough; Committee 2 - Professional Practice and Relations with Technical Societies, Subhash Anand; Committee 3 - Teaching Methods and Technical Areas, Ron Eck. A call was made to the membership of our division to become active in the affairs of the division and for interested persons to consider serving on one of these important committees. We were reminded that it is the responsibility of these committees to put together the Division's programs at the national ASEE meetings.

The new officers for the CE Division were introduced to the members:

Chairman:	Gordon Batson, Clarkson College
Vice Chairman:	Marvin Criswell, Colorado State University
Secretary-Treasurer:	Fred Beaufait, West Virginia University
Directors:	Robert L. Henry (1981), Texas Testing Laboratories Dexter Jameson (1982), University of Tennessee Ron Eck (1983), West Virginia University

Vice Chairman-elect Criswell discussed possible topics for next year's meeting. The theme for the 1981 ASEE Meeting is "Education and Industry - A Joint Venture". He expressed the hope that the CE Division would continue the long standing tradition of offering an excellent program at this meeting and asked that those members present contribute to the planning of the program for next year.

It was announced that the Civil Engineering Division sponsored or co-sponsored eighteen events at the 1980 meeting being held at the University of Massachusetts. The Division continues to be one of the most active divisions in ASEE.

Professor Hoadley announced that there was an opening for someone to serve as an associate editor of CIVIL ENGINEERING EDUCATION and anyone interested in the position should contact him.

Dr. George Wadlin suggested that a subscription rate should be set for individuals to subscribe to CIVIL ENGINEERING EDUCATION. There has been some talk within ASCE about having their own engineering education publication. Rather than having two competing journals in this area, the possibility of cooperation was raised; thus, the need for a subscription rate for individuals outside of ASEE. Professor Hoadley suggested that the Executive Board of the Division should consider the question.

Chairman Chesson turned the meeting over to our new chairman, Gordon Batson, who thanked outgoing officers for their efforts, asked for support in planning next year's program, reminded everyone about the Civil Engineering Banquet, and adjourned the meeting.

Respectfully Submitted,

Fred Beaufait
Secretary-Treasurer
CE Division - ASEE

Secretary's Post Script: The CE Banquet was a most pleasant event. Those in attendance were treated to a very interesting and enlightening program; Dr. Howard Simpson was our guest speaker.

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TREASURER'S REPORT

ASEE BUDGET

Balance 7/1/79	\$645.00
Expenditures	
Printing (fall newsletter)	\$209.00
Postage (fall newsletter	\$ 17.30
Printing (spring newsletter)	<u>\$185.00</u>
	Total \$428.30
Balance 6/30/80	\$216.70

BASS ACCOUNT

Balance 7/1/79	\$1,863.00
Expenditures	
Printing, Postage & Handling	
(CE Education Vol. I, No. 1)	\$644.09
Printing, Postage & Handling	
(CE Education, Vol. I, No. 2)	\$671.15
Miscellaneous	<u>\$ 16.00</u>
	\$1,331.24
Interest	
1st Quarter	\$ 22.24
2nd Quarter	\$ 25.05
3rd Quarter	<u>\$ 30.01</u>
	Total \$ 77.30

Deposits

1st Quarter	\$264,00
2nd Quarter	\$181,00
3rd Quarter	<u>\$176,00</u>
Total	\$621,00
Balance 3/31/80	\$1,230.42
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NOMINATIONS FOR 1981-82

The Nominating Committee, consisting of Eugene Chesson, Don Bender and Bill Wilhelm, submitted the following candidates for offices to be filled in 1981-82:

- Chairman - Marvin Criswell
- Vice Chairman - Jim McDonough
- Gajanan Sabnis

- Director (1981-84)- Subash Anand
- Colby Ardis

Balloting will be next spring and the newly elected officers will assume their duties at the 1981 ASEE Annual Meeting.

Eugene Chesson, Jr., Chairman
University of Delaware

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REPORT FROM COMMITTEE 1 -
EDUCATIONAL POLICY

As many of you know, we had a turnout of about 70 at our "How to Acquire Modern 20th Century Instructional Equipment Before the 21st Century" session in Amherst last June. Those of you who couldn't make it missed an excellent session. Ed Cranch, President at Worcester, did an outstanding job and left the attendees with many good ideas.

Plans have been completed for next June's meeting at the University of Southern California in Los Angeles. The session we will sponsor, with a few tag along co-sponsors, is EFFECTIVE USES OF ADJUNCT FACULTY. The topics we'll cover and the panel speakers for the discussion are:

- Recruitment Expectations and Policies, Colby V. Ardis, Jr.,
University of Toledo
- Recruitment Standards, Paul H. King, University of Arizona
- ABET Constraints, William Grecco, University of Tennessee
- Case Studies, Peter Hoadley, Vanderbilt University
- An Adjunct's Viewpoint, James Armhein, California State Univ.
at Long Beach

Committee #1 members are:

- Colby Ardis, Chairman - University of Toledo (1982)
- Jim McDonough - University of Cincinnati (1981)
- Fred Bennett - Walla Walla College (1981)
- J. Kent Roberts - University of Missouri-Rolla (1982)
- Paul H. King - University of Arizona (1983)
- O. David Boutilier - Michigan Technology Inst. (1983)

The Educational Policy Committee is concerned with undergraduate curricula development and accreditation, continuing education, faculty recruitment and development, and all other matters relating to educational policy in the general scope of Civil Engineering. If you would like to contribute to our efforts, please contact the Chairman at 419-537-2640 or write him at the University of Toledo.

Colby Ardis, Chairman
University of Toledo

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REPORT FROM COMMITTEE 2 - PROFESSIONAL PRACTICE
AND RELATIONS WITH TECHNICAL SOCIETIES

Subhash C. Anand, Chairman, 1979-80, opened the meeting and briefly discussed the two sessions that were organized by Committee #2 at the 1980 Annual Conference which were very well attended.

The next order of business, as usual, focused on membership. The terms of three members, Subhash, C. Anand, Thomas S. Tarpy and Rafik Y. Itani, were expiring and new members were needed to replace them. It was also pointed out that although the term of Prof. George R. Glenn of Rutgers University will not expire until 1981, his position could be replaced by someone more interested in the Committee activities. After some discussion, the members and visitors requested Subhash C. Anand to continue as Chairman for one more year. From the visitors present at this meeting, Gaj Sabnis and Don Leitch expressed interest in joining the Committee and were so elected. In addition, Garrett Evans of Stoll, Evans and Associates, a practicing civil engineer very active in civil engineering education activities, had agreed to serve on the Committee. He was also elected to Committee #2.

The next order of business for the Committee was to request sessions for the 1981 Annual Conference to be held at the University of Southern California, Los Angeles. After considerable discussion and deliberation, Committee #2 proposed the following two sessions:

Session #1 Title: Industrial Advisory Boards to Colleges of Engineering - Their Function and Purpose

1. Successful Experiences in Increasing Dollar Support with the Help of an Engineering Advisory Council - C. Roland Haden, Dean of Engineering, Arizona State University, Tempe, Arizona
2. A Practicing Engineer's Viewpoint on his Experiences with Advisory Boards, David Novick, Senior Vice-President, Lester B. Knight and Assoc., Chicago, Ill.

- 3. Impediments to Effective Use of Advisory Boards - Donald L. Bender, Assoc. Dean of Engineering, Washington State University, Pullman, Washington.

Description of Session

Industrial advisory boards have occasionally been utilized by the colleges of engineering in helping them formulate and maintain a relevant curriculum. Recently, however, the engineering colleges have discovered additional ways in which the advisory boards can be very useful. Two university administrators and an advisory board member present their views.

Session #2 Title: University - Industry Joint Endeavors in Civil Engineering Education (Co-sponsored with Construction Division)

This session is being arranged by Committee Members Don Leitch and Donn Hancher. Although the names of the paper titles and speakers have as yet not been finalized, tentative possibilities included Purdue's Construction Engineering internship program; senior design project with industry at Cal Poly, Pomona; Long Beach Naval Ship Yard Coop Program; and University of Maine experience with a construction equipment course. Don Leitch will finalize this session during August-September due to my being away from the country.

These two sessions were accepted by the Civil Engineering Division and will be presented to the ASEE Board of Directors for their approval.

Membership

Professor Subhash C. Anand
Clemson University

Professor Willard H. Reed
California State University at Long Beach

Professor Donn Hancher
Purdue University

Professor Donald G. Leitch
University of Lowell

Mr. Garrett H. Evans
Stoll, Evans & Associates

Professor G. M. Sabnis
Howard University

Subhash C. Anand
Chairman Committee #2
Civil Engineering Division, ASEE

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REPORT FROM COMMITTEE 3 - TEACHING

METHODS AND TECHNICAL AREAS

1980 Annual Conference

Committee No. 3 sponsored two sessions at the 1980 Annual Conference. One was held on Monday at 8:00 a.m. entitled "A Curriculum in Civil Engineering for the 21st Century", moderated by Ron Eck. The second session was on Tuesday at 1:45 p.m. entitled "Optimization of Time and Resources in Civil Engineering Education for the Year 2000", moderated by Bill Fead. Approximately 60 persons attended the first session; there were about 40 people at the second session.

1981 Annual Conference

The 1981 Conference theme will be "Education and Industry: A Joint Endeavor". The Committee decided to request two sessions at the 1981 Annual Conference to be held at the University of Southern California, Los Angeles, June 21-25, 1981. After a period of discussion, topics for the two sessions were chosen.

Scheduled for 3:45 p.m. to 5:30 p.m. Monday is "Ingredients that Characterize a Design Course", to be moderated by Ron Eck. Papers at this session will examine the many and varied aspects of design since there appear to be differences of opinion between accreditation team members and engineering faculty. A balanced program with both practitioners and educators is planned. The second session, planned for 3:45 p.m. to 5:30 p.m. on Tuesday, is entitled "Past, Present, and Future of Civil Engineering Laboratories" to be moderated by Jerry Seeley. Papers will be sought dealing with innovative approaches to teaching laboratory sections faced with problems of large class size, lack of adequate equipment, and faculty shortages. In addition, the Committee decided to conduct a survey of the current state of Civil Engineering Laboratory instruction. Jerry Seeley will handle the survey; results will be presented during the 3:45 Tuesday session. Calls for Papers for both sessions were to be sent out by Ron Eck.

Although the membership of Committee No. 3 is limited by the bylaws to six (6), the mailing list will continue to include persons who indicate an interest in the Committee's activities.

Membership

- | | |
|-------------------------|-----------------------------------|
| Ronald W. Eck, Chairman | - West Virginia University |
| Olin K. Dart | - Louisiana State University |
| Allen F. Dill | - Northern Arizona University |
| William E. Saul | - University of Wisconsin-Madison |
| Norman Bolyea | - University of Lowell |
| Gerald Seeley | - Tri-State University |

Ronald W. Eck
Chairman, Committee #3
Civil Engineering Division, ASEE

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CALL FOR PAPERS

CIVIL ENGINEERING EDUCATION

The fifth issue of CIVIL ENGINEERING EDUCATION will be published during the Spring of 1981. This is a call for articles and papers on any and all aspects for Civil Engineering Education. The deadline for the receipt of manuscripts is February 1, 1981.

Information for Authors

Articles should be submitted to the editor, typewritten and double spaced. Five copies are required. Titles should not exceed sixty characters, including spaces. Maximum length of articles is 3000 words, however in special cases this maximum will be waived.

Illustrations should be submitted as black and white glossy photos or ink lined drawings. Keep in mind that illustrations may be reduced at least one-half.

Footnotes and extensive bibliographic references are not generally desired. Articles on any and all aspects of Civil Engineering Education are most desired.

Mail articles and address inquiries to:

Dr. Peter G. Hoadley, Editor
CIVIL ENGINEERING EDUCATION
Department of Civil and Environmental Engineering
Vanderbilt University
P.O. Box 1602, Station B
Nashville, TN 37235
Telephone No. (615) 322-3518

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COLLEGE - INDUSTRY EDUCATION CONFERENCE

"Enhancing Quality Through Professional Practice"

January 28-30, 1981
Lake Buena Vista, Florida

As has been true for the last several years, the 1981 midwinter College-Industry Education Conference will rival the Annual Conference of ASEE for quality and diversity of program. All four sponsoring divisions, Engineering Technology, Cooperative Education, Continuing Professional Development, and Relations With Industry, are mounting super programs during the three days at Dutch Harbor Inn in Lake Buena Vista, which is to be the home of CIEC every other year for the foreseeable future.

The Conference starts with a bang Wednesday morning with a keynote address by Dr. Saul K. Fenster, Provost of the Rutherford Campus, Fairleigh-Dickinson University. He will speak on "The Corporate Community's Stake in Higher Education", a topic of special interest to all cooperating divisions. Following the plenary session, the four divisions will continue with concurrent programs for the rest of the morning, four separate CPD luncheon meetings, and a full afternoon for all hands, winding up with "Meet the Experts, All Divisions", followed by a wine and cheese reception.

Thursday is more of the same, starting with three CPD breakfast sessions, something for everyone in morning and afternoon, with luncheon topics such as RWI's "Non-Traditional Resources to Solve the Engineering Education Dilemma", and CED's "Where Have All the Co-Ops Gone?," and CPD-ETD's joint luncheon, "Continuing Development Programs for Professionals in Applied Technology".

Thursday afternoon continues with professional programs, such as CPD-RWI's "Role of Continuing Education in Career Management and Guidance", and CED's "The Bottom Line: Is Co-op Cost Effective?" Thursday evening is on your own in Lake Buena Vista, and Friday winds up to the Annual Conference Luncheon Awards and Conference Wrap-Up.

The registration fee is \$65 for ASEE members before January 6, 1981 (\$80 for non-members), with an additional \$10 to \$15 after January 6, so get your registration in to M. J. Johnson, CIEC Meeting, 100 Sandy Hall, VA TECH, Blacksburg, VA 24061. Best news of all is that Dutch Harbor is giving us a convention rate of \$55 single or double, so there is no extra cost to bringing along your spouse or "significant other", as stated in some quarters these days.

Joe Biedenbach and Larry Grayson will again have a superb compendium of conference papers in our hands before the meeting starts, so you won't have to take notes. Come and enjoy the Florida winter with ASEE friends from the frozen North, the stormbound East and the fire-and-earthquake ravaged West!

2. The first part of the document is a list of names and addresses of the members of the committee.

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FRED W. BEAUFAIT
DEPT OF CIVIL ENGINEERING
WEST VIRGINIA UNIVERSITY
MORGANTOWN WV 26506

ASEE-CE DIV. NEWSLETTER
Civil Engineering Dept.
West Virginia University
Morgantown, WV 26506



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