

Division newsletter

American Society for Engineering Education

DIVISION: Civil Engineering

EDITOR: Dexter C. Jameson, Jr.
Department of Civil Engineering
University of Tennessee
Knoxville, TN 37916

Date: November 1976

OUTLOOK FOR THE COMING YEAR

This is the first of two newsletters for this year. Our budget is very tight--so publishing two is somewhat of a financial strain.

Inadequate financing continues to be our most serious problem. Our Division budget is about \$450, and as you know we cannot conduct much in the way of Division Activities with this small funding level.

When I became Chairman back in June 1976, I felt that the first order of business should be to raise more money. My first step was to contact ASEE headquarters with a brief proposal concerning an endowment fund campaign for the Division. For several good reasons, an endowment campaign is not considered desirable; not the least of which is ASEE's tax status. It appears that the one sure way we can increase our coffers is to set up a CE Division dues system. This is currently under study by the Division Board of Directors. Please complete the questionnaire which is the last item in this newsletter.

If a Division dues system is approved you may ask what we propose to do with the money. There are several activities that come to mind and have been suggested by many members over the years. The first would be to expand the number of newsletter issues from one to maybe two, three or four. The second would be to establish a Division awards program. Further down the road we might decide to publish a

CE Division quarterly magazine something like the ERM quarterly. And, I am sure that future Division officers would propose similar worthwhile activities. My guess is that we will propose division dues, and I hope all of you will support such a move. The only way we can increase and improve our activities is to increase our yearly budget.

The CE Division program for the annual convention next June is shaping up very nicely. The following sessions have been planned.

Civil Engineering Accreditation
Engineering Enrollments--Where Are They Going?
Transportation Educational Needs
Design Education--A Point of View
B.S.C.E. vs. B.S.C.E.T.--What are the Issues?
Rap Session
Planning Session
Business Luncheon
Chi Epsilon Luncheon
Banquet

Bill Wilhelm, vice chairman and program chairman, has things well underway and our sessions should prove very interesting. I hope all of you will be able to come to North Dakota next June.

Peter G. Hoadley
Chairman, ASEE-CE Div.

1976-77 Civil Engineering Division Board of Directors

Chairman:	Peter G. Hoadley - Vanderbilt Univ.
Vice Chairman & Program Chairman:	William Wilhelm - West Virginia Univ.
Secretary-Treasurer- Editor:	Dexter Jameson (1979) - Univ. of Tennessee
Past President:	Ed Misiaszek - Clarkson College
Directors:	Roger Seals (1978) - West Virginia Univ. Don Bender (1977) - Washington State Univ. Gordon Batson (1979) - Clarkson College
Standing Committee Chairmen:	Clyde Holland (1978) - Northern Arizona Univ. Marvin Criswell (1977) - Colorado State Univ. Larry Feeser (1978) - R.P.I.

1976-77 Civil Engineering Division Committee Memberships

Committee No. 1 -- Educational Policy

Larry J. Feeser, Chairman	R.P.I. (1978)
William Wilhelm	West Virginia Univ. (1977)
Russel Jones	Ohio State Univ. (1977)
Cornie L. Hulsbos	Univ. of New Mexico (1978)
Ed Rohmberg	Univ. of Detroit (1979)
Wallace Fluhr	Air Force Academy (1979)

Committee No. 2 -- Professional Practice and Relations with
Technical Societies

Marvin Criswell, Chairman	Colorado State Univ. (1977)
Donald Haber	Univ. of Idaho (1977)
Ed Reitz	City College of N.Y. (1978)
Gajanan M. Sabnis	Howard Univ. (1979)
Samuel W. Dobyns	V.M.I. (1979)

Committee No. 3 -- Teaching Methods and Technical Areas

Clyde N. Holland, Chairman	Northern Arizona Univ. (1978)
Roy V. Sneddon	Univ. of Nebraska (1977)
Thomas S. Tarpy, Jr.	Vanderbilt Univ. (1977)
James Chinn	Univ. of Colorado (1978)
J. Paul Hartman	Florida Tech. Univ. (1978)
Robert Henry	Univ. of Miss. (1978)
Ronald W. Eck	West Virginia Univ. (1979)
Donald Leitch	Lowell Univ. (1979)
Albert D.M. Lewis	Purdue Univ. (1979)
Olin W. Mintzer	Ohio State Univ. (1979)
William E. Saul	Univ. of Wisconsin (1979)

Terms of office of committee members end as shown in parenthesis and new members will be needed for the various committees. Interested persons (non-academic and academic) are requested to contact committee chairman for consideration as committee members.

NOMINATING COMMITTEE REPORT

The committee consisting of George Wadlin, Olin Dart, and Ed Misiaszek, Chairman, have submitted the following candidates for consideration. Chairman: William Wilhelm; Vice Chairman: Donald L. Bender or Donald G. Leitch; Director: Marvin E. Criswell or Edward S. Reitz. The successful candidates will assume their offices at the 1977 ASEE Annual Conference.

Report of the Secretary-Treasurer-Editor
1975-1976

The Division Newsletter was prepared in February and mailed out in March 1976. The printing and mailing was handled by ASEE Headquarters. Most members received the Newsletter in April judging by the ballots returned to the Secretary.

The number of ballots returned was up 10 percent from 1975-76, but still represents less than 10 percent of 2000 members of the CE Division.

The officers elected for 1976-77 and the continuing officers are as follows.

Chairman: Peter Hoadley
Vice-Chairman: William Wilhelm
Secretary-Treasurer-Editor: Dexter Jameson (1979)
Directors: Roger Seals (1978)
Donald Bender (1977)
Gordon Batson (1979)

The Executive Board for 1976-77 of the CE Division consists of the officers plus the past Chairman, E.T. Misiaszek, and the Chairmen of the Standing Committees, Wilhelm, Holland and the new chairman for Committee Number 2.


The CE Division budget for the 1975-76 year was \$450, a \$50 decrease from 1974-75 budget.

Income	\$450
Expenses	
Newsletter	\$265.00
Balance June 1976	<u>\$185</u>

A special budget was established for a Civil Engineering Division Project and funded for \$500.

Income	\$500.00
Expenses	
Travel	\$292.98
Balance June 1976	<u>\$207.02</u>

Respectfully submitted


Gordon Batson
Secretary-Treasurer
and Editor C.E. Division

MINUTES

Committee No. 1 - Educational Policy
Civil Engineering Division

Meeting: ASEE Annual Conference, Knoxville, Tennessee,
June 16, 1976, 8:00 a.m.

1. Since Professor Wilhelm has been elected as Vice Chairman of the Division and Program Chairman for the 1977 meeting, the first order of business was the election of a new chairman for Committee No. 1, Professor Jones moved the nomination of Professor Feeser. Seconded. Carried.
2. Following a short discussion, two new members for Committee No. 1 were elected for three year terms. The members are Professors Fluhr, of the U.S. Air Force Academy and Rhomberg of the University of Detroit.
3. The Committee agreed to continue its efforts to attend ASCE Department Heads Meetings. The new Chairman will coordinate this effort with Joseph McCabe of ASCE. Coordination is definitely needed since the meetings are spread over the entire calendar. It was noted that there has been an attempt to make these meetings more formal, with bylaws being developed in some cases.
4. The Committee discussed possible topics for session at the 1977 Annual Conference. It was agreed that the Chairman would propose topics in the following order of priority and push hard for at least the first two.
 - A. An Accreditation Forum on CE Accreditation, to consist of a presentation (35-40 min.) on how an accreditation visit is conducted plus possibly two additional papers on topics of current interest on accreditation.
 - B. A session on Bachelor of Engineering Technology versus Bachelor of Science programs, to include frank or adversary discussion of the needs and place of each.
 - C. Design Education.
 - D. Communication Skills.
5. It was reaffirmed that Committee No. 1 intends to participate in the upcoming ASCE Education Conference tentatively planned for Spring 1979.
6. The Committee discussed the issue of continuing education for Professional Licensing renewal. There will be an ASCE

Professional Activities Committee Specialty Conference during the Spring 1977 on this topic.

Meeting adjourned at 9:00 a.m.

Committee No. 2 - Professional Practice and Relations
with Technical Societies

1. After outgoing Chairman Don Bender started the meeting, Marvin Criswell was elected Committee Chairman. Committee membership was next reviewed. Gajanan Sabnis, Howard University and Samuel Dobyns, Virginia Military Institute were selected for membership. The committee is not up to the full six-member size authorized in the CE Division Bylaws. The group would like to add a member who is employed in industry or consulting rather than directly in education.
2. Austin Barry suggested that the committee seek to establish relations with such groups as ARBA, AGC, AREA, HRB, AASHTO and others in addition to ASCE and NSPE.
3. Several topics for future sessions to be sponsored by the committee were discussed, including:
 - A. Engineering Enrollment - Don Bender suggested a session on "Should Engineering Enrollment be Limited?". Topics the group thought suitable for such a session included:
 - (1) Should CE enrollments be limited - i.e. - do we graduate too many students for the good of the profession,
 - (2) is the undergraduate engineering program a professional or a liberal education,
 - (3) with limited academic resources, what is the trade off between student numbers and educational quality,
 - (4) what are projected CE enrollments and employment possibilities for the next several years,
 - (5) how should students be selected if enrollment is restricted,
 - (6) can management of student enrollments reduce the shortage - oversupply cycles common for engineering graduates,
 - (7) how do the engineering technician programs influence CE enrollments and needs and
 - (8) are expanding engineering enrollments as desirable for the profession as they can be for college budgetary purposes? Some discussion on the proper title and tone of emphasis of the possible session followed.
 - B. Professional Component of Civil Engineering Education - A possible session on this topic was proposed by Austin Barry. Possible topics discussed included: (1) the role of student societies, (2) interaction of professional societies and students, (3) transition of recent

graduates into technical societies, (4) registration; orienting the student on registration and his professional needs and responsibilities, (5) ethics in civil engineering practice, (6) input from engineering practitioners not primarily in education and (7) seeking return of information to the college from recent graduates.

- C. Qualitative and Subjective Areas of Civil Engineering - Bill Saul commented that he would like to see a session discussing how faculty members primarily involved in areas which are not as heavily dependent on mathematics as are most, such as planning and transportation, can be properly evaluated and rewarded in the university system.
- D. ASCE-ASEE Conference on Civil Engineering Education - M. Criswell suggested that if not in 1977, then in 1978, the committee should consider a session previewing or advertising the planned Spring 1979 Conference on Civil Engineering Education.

During the Division discussions held immediately following the committee meeting, a session on CE enrollments was accepted for the 1977 University of North Dakota Conference. A tentative committee proposal to plan a session related to the planned ASCE-ASEE Conference on Civil Engineering Education was also encouraged in the Division discussions.

COMMITTEE ON CURRICULUM AND ACCREDITATION

Edward J. Rhomberg attended the C.C. & A fall meeting. His report included:

1. C.C. & A suggests that ASEE CED may wish to change the arrangement whereby its chairman is a corresponding member to both EDEX and C.C. & A because of the burden on the chairman's time.
2. With respect to the ASEE Annual Conference in June, 1977, C.C. & A advises that
 - (a) Speakers may wish to avail themselves of data collected in recent ASCE surveys.
 - (b) An accreditation forum is scheduled for the ASCE meeting in Dallas in April, 1977.

1979 Conference on Civil Engineering Education¹

An early Spring 1979 date has tentatively been set for a national conference on Civil Engineering Education. This conference will be along the lines of the 1974 conference held at Ohio State and the 1960 Michigan conference on the same subject. Broadly stated, the intended objectives of the conference will be to examine how civil engineering education presently relates to civil engineering practice and national needs and to plan how and through what means needed changes in civil engineering education can be brought about or encouraged. The plan is to bring together civil engineering educators, including many more non-CE background engineering deans than were present at the 1974 Ohio State meeting, and a nearly equal number of engineers from consulting, industry, government, research; i.e., civil engineers not primarily involved with university education. Such topics as the engineer versus technician and technologist, the proper emphasis on and programs for environmental engineering, construction, surveying, etc. in civil engineering (i.e., should these be in or separated from CE?), professional and other post-B.S. degrees; teaching of engineering ethics, product liability, elements of professional practice; project and engineering management, faculty qualifications (research and "practice oriented" experience), educational philosophy, and enrollment trends and management are among the topics which will probably receive attention.

It is planned that the (1979) conference will dwell less on background information and data accumulation and more on discussion of needed modifications of the educational programs. Much preconference research will be done.

A four man task force including Professors Jones* and David VanHorn are planning the conference. The following committees will or have been appointed: Steering, Research, Program, Attendance, Local Arrangements. Presently, a search is on for a suitable conference site, one which is: (1) centrally located, (2) readily accessible from a large regional airport, (3) is on a university campus having a continuing education center large enough to allow conference housing and meetings to be within close walking distance and (4) has a local group of civil engineers very interested in the conference.

Tentative schedule includes:

April 1977	At least some preconference research results out, call for papers (abstracts).
July 1977	Review of abstracts and selection of papers to start.
Oct. 1978	Paper submission deadline, start of paper reviewing.
Jan. 1979	Conference preprints out.

* Russel C. Jones, Ohio State University

¹ Taken from notes prepared by Marvin E. Criswell.

Spring 1979 Conference

Preconference research to be supervised by the steering committee and planned to be supported by ASCE, NSF, private foundations, etc. includes:

1. Information on current education programs - basic and advanced curricula, curricula emphasis, enrollments.
2. Where do CE graduates go - employment patterns, both for B.S. and advanced degree holders.
3. Educational program and employment information for CE technology and technician programs - especially how do 4-yr. technology programs differ from B.S. engineering program.
4. Nature of and different types of engineering practice - public, private, various specialities, policy-making aspects, etc.
5. Supply-demand studies for graduates at all levels (2-yr. technologist through D. Engineering, PhD.).
6. Attitudes of graduates, employers, engineers, public bodies, general citizenry, etc. on the adequacy of current educational programs.
7. Attitudes of students, educators, practitioners, etc. on the social, ethical and professional roles and responsibilities of the civil engineer and CE education.
8. Survey of the characteristics, "academic and nonacademic", professional qualifications, professional activities and attitudes of educators in civil engineering.

The committee hopes to have outside (non-ASEE or ASCE) funding for much of the planned background research, especially for the attitudinal components, within the next few months.

This conference is planned to bring together the most qualified and influential civil engineers both in education and from the non-university segments of engineering practice and will be discussing how civil engineering education should be structured and modified. It very probably will have a major impact of civil engineering education in the 1980's and perhaps beyond.

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Program: American Civil Engineering History
Date: November 30 - December 1, 1976
Location: University of Wisconsin - Madison
Fee: \$140
Contact: C. Allen Wortley
Department of Engineering
University of Wisconsin - Extension
432 North Lake Street
Madison, Wisconsin 53706
Telephone: (608) 262-2061

Civil Engineering Division - ASEE

Membership Interest Locator

FROM: Dr. Peter Hoadley, Chairman
CE Division, ASEE

TO: All members of the Civil Engineering Division - ASEE

Please complete the following questionnaire and return to Prof. Dexter Jameson, Department of Civil Engineering, University of Tennessee, Knoxville, TN 37916. Your cooperation is greatly appreciated and your early response will be helpful in deciding a course to follow with this organization.

Name _____ Title _____
 Department _____
 School _____
 Address _____ Zip _____

Check the appropriate blanks or fill in spaces provided:

1. a) Your age group? 30 (), 30-39 (), 40-49 (), 50-59 (), 60+ ()
 b) Your title? Professor (), Assoc. Prof. (), Asst. Prof. (),
 Other (state) _____
2. Please give us an indication of your professional society membership (check those to which you belong) and/or indicate your meeting attendance practice.

A. <u>National Organization</u>	Membership	<u>Attendance at Annual Meetings:</u>		
		<u>Yearly</u>	<u>Occasionally</u>	<u>Never</u>
ASEE	()	()	()	()
ASCE	()	()	()	()
Others (Specify): _____	()	()	()	()
_____	()	()	()	()
_____	()	()	()	()
B. <u>State or Local Organizations</u>				
ASEE Section	()	()	()	()
ASCE: Section or	()	()	()	()
Branch	()	()	()	()
Others (Specify): _____	()	()	()	()
_____	()	()	()	()
_____	()	()	()	()

3. Which organization serves your purposes best? ASEE (), ASCE ()

Please state your reason for feeling this way: _____

4. a) The main reasons I belong to ASEE are _____

b) If you have not attended recent ASEE annual meetings, what reasons have prevented you from doing so? _____

5. Please indicate what other divisions of ASEE you belong to

6. Would any of the following activities help make ASEE (CE Division) a more meaningful organization to you?

Yes No

() () a) A quarterly CE Division newsletter or journal.

() () b) A national award for CE Teaching Excellence with a stipend of \$500 to \$1,000.

() () c) A national teaching methods project to develop computer and videotape modules which could be used to improve the quality of CE education.

() () d) CE Division sponsored session at ASEE Section meetings.

7. To provide any new services at all, the CE Division must augment its \$450 annual allotment from ASEE (which barely provides for the annual newsletter in the spring of each year). Which method would you favor to accomplish this? Check appropriate spaces.

() a) I would permit ASEE to assess me additional dues earmarked for the CE Division up to the amount of

() \$1.00 () \$2.00 () \$3.00 () \$5.00

() b) I would prefer to make a voluntary contribution each year of about \$_____.

() c) I think the division should establish an endowment fund whose interest would provide additional income to the division.

8. Should the division seek endowments? If so, for what purposes? _____

9. Please suggest any other activities or services that would make the CE Division more meaningful to you as a civil engineering educator or that are needed by the profession. Add any other thoughts you may have on the space below or on back of this sheet.



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