

# Division newsletter



American Society for Engineering Education

DIVISION: Civil Engineering

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CHAIRMAN'S REMARKS

One of the key needs for our profession in the next decade or two is an adequate supply of new faculty. A current article in Engineering Education goes into detail, but the need is real and becoming critical. Each of us should encourage actively the several top students in our classes to consider graduate studies and teaching careers. Become a mentor for your best students!

The Civil Engineering Division of ASEE and the ASEE both need more members to be good professional organizations. Division and Society officers cannot reach all those who should belong and who from lack of knowledge, procrastination, or apathy are not members. Become a salesperson for ASEE/CE!

The Engineering Education magazine welcomes manuscripts on a variety of topics in the education of engineers. Certainly there are many innovations in methods, internal reviews of effectiveness of curricula, course or lab techniques, and surveys of alumni which reveal successes and needs. Frequently there are others who can benefit from your experiences, if you would take the time to prepare a paper for one of the engineering education meetings and/or journals. Quite rarely do we take the time to share with colleagues the pedagogical and student-oriented knowledge we have accumulated. Become an author on education!

It has been an honor and a pleasure to serve as the Division chairperson this year. The cooperation of many officers, committee chairs, and committee members is greatly appreciated.

E. Chesson, Jr.  
Chairman, Civil Engineering Division, ASEE  
University of Delaware

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1980 ASEE ANNUAL CONFERENCE

CE DIVISION PROGRAM

The theme of the 1980 ASEE Annual Conference is "Education for the 21st Century" and the CE Division Program relates to the important problems of staff, equipment, and educational needs of engineers for the 21st century. All of the CE Division-sponsored events and the mini-plenary (event 1365) address these problems. By Monday evening, there should be plenty of discussion at the RAP Session based on Monday's activities.

The pace of activities continues to be very intensive for Tuesday and Wednesday with sponsored and co-sponsored sessions. Not to be forgotten are the CE Division Business Luncheon and Banquet and the traditional Chi Epsilon Luncheon. Also important to the successful planning and organization of future programs is the planning session for the 1981 Annual ASEE Conference. If you have ideas for a program, please bring them to the planning session.

Gordon Batson  
Vice-Chairman, CE Division - ASEE  
Clarkson College of Technology

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ACTIVITIES

CIVIL ENGINEERING DIVISION  
1980 ASEE ANNUAL CONFERENCE  
University of Massachusetts

The program of the Civil Engineering Division Activities for the Annual Conference of ASEE is a very full one. It is earnestly hoped that the CE events will be well attended along with as many of the co-sponsored events as possible by CE Division members.

All those members interested in next year's program along with officers and committee chairmen are asked to attend the planning session on Wednesday morning. This is a very important meeting for establishing the next year's program.

Monday, June 23

Event 1217 8-9:45 a.m. A CURRICULUM IN CIVIL ENGINEERING FOR THE 21ST CENTURY

Moderator: Ronald W. Eck

The curriculum will change over the next 20 years - What shape will it assume? What will the broad guideline look like? The details? What will be the concerns of society and the profession?

Event 1617 3:45-5:30 p.m. ENGINEERING = UNIVERSITY + WHAT?

Moderator: Gajanan M. Sabnis

What professional training and practical experience are necessary and required past the formal education of a student to be designated as an engineer? Views are expressed by three speakers, one each from a large engineering company, a small civil engineering consulting firm, and the National Council of Engineering Examiners.

Event 1365 10:00-11:45 a.m. MAINTAINING QUALITY FACULTY IN TIMES OF LIMITED RESOURCES

Moderator: C.E.G. Prziembel

The future of quality engineering education is jeopardized by the following problems:

- 1) the steadily declining college age population;
- 2) an increase in demand for engineering graduates;

- 3) an anticipated limited reduction in senior faculty due to retirement; and
- 4) inadequate incentives for hiring and maintaining faculty members.

This session will present various aspects of these problems and will then have several persons from industry, academia and the government address potential solutions.

Event 1817 8:00-10:00 p.m. CIVIL ENGINEERING RAP SESSION

Moderator: Eugene Chesson

Members can discuss important issues in an informal way. Cash bar.

Event 1827 7:30-9:30 p.m. TOUR OF UNIVERSITY OF MASSACHUSETTS ENGINEERING LABS

Tuesday, June 24

Event 2217 8:00-9:45 a.m. ENGINEERING FACULTY - OBLIGATION TO PUBLISH AND/OR PRACTICE - THREE POINTS OF VIEW

Moderator: Subhas C. Anand

Have the engineering faculty sufficient practical experience to make their teaching relevant and meaningful? If not, what should be the proper mix between their research/publication and practice efforts? Three experts, who are either faculty or are currently practicing but were previously university professors, share their views on this subject.

Event 2417 12:00-1:30 p.m. CE DIVISION BUSINESS LUNCHEON

Moderator: Eugene Chesson

Event 2517 1:45-3:30 p.m. OPTIMIZATION OF TIME AND RESOURCES IN CIVIL ENGINEERING EDUCATION FOR THE YEAR 2000

Moderator: J.W.N. Fead

Increased demands on faculty time make it necessary for faculty, students and practitioners to work together on better utilization of that time. Ways in which this problem can be addressed in civil engineering education will be discussed.

Event 2717 6:30-9:30 p.m. CIVIL ENGINEERING BANQUET

Moderator: Eugene Chesson

Banquet will feature a speaker and include recognition of new Civil Engineering Division officers. Spouses and guests are welcome.

SPEAKER: Dr. Howard Simpson, Simpson, Gubpertz & Heger (Partner),  
Cambridge, Massachusetts  
"Ethical Dilemma"

Wednesday, June 25

Event 3117 7:00-9:45 a.m. PLANNING SESSION

Moderator: Gordon Batson

Planning session for next year's events, committee activities and the 1981 Annual Conference.

Event 3263 8:00-9:45 a.m. DEVELOPMENT OF A UNIFORM FIRST COURSE IN MATERIALS SCIENCE

Moderator: Roy F. Bourgault

To coordinate the need of different engineering disciplines in terms of the basic course in materials science, which may be recommended by ECPD, and the viewpoint of those in the materials field who offer the course, a panel will present a discussion.

Event 3417 12:00-1:30 p.m. CHI EPSILON LUNCHEON

Moderator: Dexter Jameson

Event 3548 1:45-3:30 p.m. ENVIRONMENTAL ENGINEERING DIVISION

Moderator: M. Joseph Willis

Paper session dealing with the interaction of environmental engineering practice and environmental course work and course trends in the '80's.

Event 3617 3:45-5:30 p.m. HOW TO ACQUIRE MODERN 20TH CENTURY INSTRUCTIONAL EQUIPMENT BEFORE THE 21ST CENTURY

Moderator: Colby V. Ardis, Jr.

A workshop seeking creative solutions to the problem of raising capital for instructional equipment will be presented by those who have been successful.

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COMMITTEE 1 - EDUCATIONAL POLICY

The Civil Engineers and Committee 1 are in the forefront of the issues again.

At the National Convention last year, Committee 1 presented a session on the future of the engineering educator. This session stimulated several people to look further into the question and a Mini-Plenary session was proposed by Civil Engineering for the 1980 Convention. Mechanical Engineering also suggested a session on the same subject, and are heading up the joint effort (how the politics work at the planning session is beyond me).

A recent issue of the ASEE News featured excerpts of the paper presented by Gene Chesson at the '79 Convention. This should be a very interesting Mini-Plenary, so be sure to include it in your plans. (#1365, Monday, June 23 at 10:00 a.m.)

The major contribution by Committee 1 is a session chaired by Colby Ardis on the acquisition of equipment for engineering needs in the Twentieth Century. Another of the major issues of the future is how do we replace the aging equipment of the 60's and how do we acquire new equipment. I look to the session by Dr. Ardis to provide us some direction in this matter.

Jim McDonough, Chairman  
University of Cincinnati

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COMMITTEE 2 - PROFESSIONAL PRACTICE AND RELATIONS  
WITH TECHNICAL SOCIETIES

Committee #2 is very pleased to present two sessions at the ASEE Annual Conference in Amherst, that should be of great interest to all Civil Engineering practitioners and educators. The session, entitled "Engineering Faculty - Obligation to Publish and/or Practice, Three Points of View", has three outstanding speakers in Dr. Gerald M. Sturman, Vice-President, Parsons-Brinkerhoff; Professor Walter Blessey, Chairman, Department of Civil Engineering, Tulane University (Past National President ASCE); and Professor Milo Ketchum, University of Connecticut. The second session, entitled "Engineer = University Plus What?" is unique, as can be seen from its title, and addresses itself to the question of the practical experience and professional training that is necessary and required past the formal education of a student before he could be designated as an "engineer". This session also has speakers with outstanding credentials and they are: Drs. B. L. Meyers (Bechtel Corp.) and G. M. Sabnis (Howard University), Mr. Garrett H. Evans (Stoll, Evans and Associates' Ann Arbor, Mich.), and Mr. Alfred Samborn (President, National Council of Engineering Examiners). I invite you all to attend these two sessions which promise to generate lively discussions.

Committee #2 is also interested in recruiting new members, and invites you to attend the Committee meeting on Wednesday morning the 25th of June during the CE Division's breakfast and planning session. See you there.

Subhash C. Anand, Chairman  
Clemson University

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COMMITTEE 3 - TEACHING METHODS AND TECHNICAL AREAS

Committee 3 is seeking individuals interested in participating in its activities. The Committee serves as a means for promoting and conducting meetings and discussion on teaching methods and the teaching of technical subjects. Last year the Committee planned and successfully sponsored two sessions at the Annual Conference: "Education in Civil Engineering for Conservation of Scarce Resources" and "Transportation Engineering Education in the 1980's". Two more sessions are planned for this year at UMASS in Amherst: "A Civil Engineering

Curriculum for the 21st Century" and "Optimization of Time and Resources in Civil Engineering Education for the Year 2000".

Planning for the 1981 Conference in Los Angeles will take place when Committee 3 meets during the CE Division Planning Breakfast on Wednesday, June 25, 1980. We need your thoughts and ideas on session topics and speakers. Individuals will also be needed as session organizers. Why not take advantage of this invitation to become involved with Civil Engineering Division activities? Please call or send me your ideas (c/o Department of Civil Engineering, West Virginia University, Morgantown, West Virginia 26506, phone (304) 293-5580). But better yet, be there at the Planning Breakfast in Amherst. Hope to see you there.

Ron Eck, Chairman  
West Virginia University

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CIVIL ENGINEERING DIVISION PROGRAM - 1981

The program planning for the 1981 Annual ASEE Conference to be held at the University of Southern California (June 22-25) will be accomplished largely at this year's ASEE meeting at the University of Massachusetts, Amherst. The theme of the 1981 Conference will concern the educational-industrial interface. This theme includes many very current, relevant, and very interesting topics and questions.

If you have an idea or suggestion, pet project, or potential paper you would like to present or hear presented, please jot it down and send this information to the newsletter editor.

For those of you on the Civil Engineering Divisions, please be thinking about what topics your committee wants to address in these sessions - which are only fourteen months from now. Thank you.

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CIVIL ENGINEERING EDUCATION

Call for Papers

The fourth issue of CIVIL ENGINEERING EDUCATION will be published during the fall of 1980. This is a call for articles and papers on any and all aspects of Civil Engineering Education. The deadline for the receipt of manuscripts is August 1, 1980.

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:

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P.O. Box 1602, Station B  
Nashville, TN 37235  
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THE CANDIDATES

The report from the Nominating Committee was published in the fall issue of the Newsletter. The Ballot for voting is included in this issue; you are urged to cast your vote and return your ballot today. It is important that you vote since there are two candidates for Director; normally there would be two candidates for Vice-Chairman, but one of the candidates withdrew after our meeting in Baton Rouge.

A short resume for each candidate follows:

Subhash C. Anand

Professor of Civil Engineering, Clemson University. Member of ASEE since 1968. Member Committee #2 CE Division, ASEE, since 1977, Chairman 1979-80. Interested in Civil Engineering Design Education. Directed a NSF-supported Summer Institute in Structural Design for College Faculty in 1972. Speaker at ASEE Annual Conferences in 1973, 76, and 77, and moderator in 1979. Published papers in Proceedings of the 5th Annual Frontiers in Education Conferences held at Ohio State University, 1974, and University of Wisconsin-Madison, 1979. Active in ASCE and has published widely.

Gordon Batson

Professor of Civil and Environmental Engineering, Clarkson College of Technology. Member of ASEE since 1967, member of Teaching Methods and Technical Areas Committee 1969-70 and Chairman 1970-1977. Moderator of CE Division Sessions at Annual ASEE Conferences in 1968 and 1971. Secretary-Treasurer-Editor of CE Division ASEE 1973-76, Director of CE Division 1976-79 and Program Chairman 1980. Member of ACI, ASCE and ASTM.

Marvin Criswell

Marvin Criswell is an Associate Professor of Civil Engineering at Colorado State University, Fort Collins, where he teaches and does research in primarily the areas of structural behavior and design. He received the BS degree from the University of Nebraska in 1965 and MS and Ph.D. degrees from the University of Illinois at Urbana-Champaign in 1966 and 1970, all in Civil Engineering. He is a Professional Engineer in the state of Colorado. He serves on numerous national American Society of Civil Engineering (ASCE), American Concrete Institute (ACI) and joint ASCE-ACI Technical Committees. He is a past chairman of the ASEE Civil Engineering Committee 3, Professional Practice and Relations with Technical Societies, serves as an Associate Editor of Civil Engineering Education, and is on the CE Division Board of Directors. He is the Campus Activity Coordinator for his campus, has served on ASEE Campus Liaison Board, and is a recipient of the ASEE Outstanding Campus Activity (Zone IV) Award (1976) and the ASEE Dow Award (Rocky Mountain Section) for Young Faculty (1978).

Ronald W. Eck

Assistant Professor of Civil Engineering at West Virginia University, where he has served on the faculty for five years. Member of ASEE since 1975; currently serving as WVU's Campus Activity Coordinator. Presented papers at the 1977 and 1978 ASEE Annual Conferences; has been organizer and moderator of CE Division sessions at 1979 and 1980 Annual Conferences. Has served on Committee Three (Teaching Methods and Technical Areas) for last four years and is currently Chairman of that Committee.