MESSAGE FROM THE CHAIRMAN

It is a great honor to be the Chair of the Civil Engineering Division of ASEE for 1997-98 -- and it is a pleasure to tell you about some of our activities of the last year:

We had a terrific annual meeting last summer in Milwaukee led by Howard Dunn (US Coast Guard Academy). Great food, drink, technical sessions, and camaraderie! Some comments:

- Many thanks to our standing committee chairs from last year: Donna Hancher (Univ. of Kentucky), Sam Clemence (Syracuse), Steve Ressler (USMA), and Bill Knocke (Virginia Tech) for organizing interesting, relevant, and timely technical sessions. Great attendance at all sessions -- even the Wednesday session was filled!

- Special thanks to Tom Wenzel (CE Chair, Marquette University) for hosting (and financing!) our Monday evening rap session -- and helping me select an appropriate location for our annual banquet. The next time you are in Milwaukee, check out John Ernst Restaurant at 600 E. Ogden Avenue -- you won't be disappointed. Howard Dunn was a great host, even though he needs to find a new source of jokes(?)! A major highlight of the banquet was the presentation of the George Wadlin Award to Gerry Seeley of Valparaiso -- a well-deserved honor to an engineer who has served our Division so selflessly.

- The leadership of the Division has been invigorated with new blood -- and some suitably aged veteran blood. Key leadership positions have transitioned to Alan Prasuhn (Vice/Program Chair), Dan McGinley (Editor), and J.P. Mohsen (Director). Sam Clemence was selected to fill the Director position vacated by Alan Prasuhn upon his election as Vice Chair. A full listing of the Division’s leadership is on pages 10-11 of this newsletter. Of course, we are now identifying our candidates for the new positions opening up for 1998-99 -- please take a few moments to complete the ballot which is enclosed with this newsletter.

- The participation of the ASCE staff at our annual meeting in Milwaukee was unprecedented. Mike Kupferman (Managing Director of Professional, Educational, & Technical Activities), Marla Berman (former Director, Educational Activities), and Leann Yoder (former Program Coordinator, Educational Activities) attended the entire conference. Luther W. Graef, our ASCE President, participated in the rap session at Marquette, spoke at the annual banquet, and made a presentation at the Chi Epsilon luncheon. What a great display of support for civil engineering educational activities from Luther and the ASCE staff!

(continued on page 2)
MESSAGE FROM THE CHAIRMAN
(continued from page 1)

I request your support of the *Journal of Professional Issues in Engineering Education and Practice (JPI)*. Since our Division stopped publishing *Civil Engineering Education* in 1992, *JPI* stands as the nation’s only journal charged with addressing civil engineering educational issues. Publishing options include peer-reviewed papers, technical notes, forum pieces, letters to the editor, and discussions. *JPI* has seen a notable decrease in the number of submissions from potential authors. We need to establish and maintain this medium for addressing CE educational issues in a scholarly manner. With your support, *JPI* can flourish as a well-read and respected ASCE journal of educational scholarship. Contact Mark Evans (im8670@trotter.usma.edu) or Brian Brenner (bbrenne@bigdigi.com) for more information.

Please excuse the following unabashed self-promotion. I feel obliged to share information about an outstanding resource. If you are looking for an interesting, hands-on civil engineering project to enhance your curriculum or to support an outreach event with pre-college students, check out the West Point Bridge Designer. It’s a computer-aided design software package developed specifically for the purpose of stimulating students’ interest in engineering and design. This public domain software was developed by Steve Ressler, a member of the civil engineering faculty at the Military Academy and an active member of our Division. As a service to the engineering profession, Steve Ressler has offered the West Point Bridge Designer for use by anyone who has an interest in learning more about engineering design. The program can be downloaded free of charge from the USMA worldwide web site (http://www.dean.usma.edu/eme/civilsoft.htm). The software requires an IBM-compatible computer running Microsoft Windows 3.1 or better; 8 MB of RAM; and 2 MB of hard-disk space. If you have comments about the program or recommendations for improvement, contact Steve at is8874@trotter.usma.edu. Try it -- I promise you will be impressed!

Over the past several years, I have noticed that some of you are actively mentoring colleagues at the national meeting. As a specific example, I have witnessed Donn Hancher (Univ. of Kentucky) actively mentoring new faculty at national ASEE conferences. I believe more of us should be following his example. Specifically, I would like to declare this the year for each of us to “MENTOR A MEMBER.” I urge all of you to convince a colleague (perhaps that new faculty member in your department) to become an ACTIVE member of the CE Division of ASCE. On more than one occasion I personally heard Luther Graef (President, ASCE) state that ALL civil engineers should be members of ASCE and ASEE. Certainly this is true of all civil engineering educators. Share your knowledge and experience about our Division with a colleague. Bring a colleague with you to Seattle. Tell a colleague about the rewarding programs conducted by ASCE at the regional and national level. Convince a colleague that there are many other civil engineers across the nation who are interested in promoting quality civil engineering programs at our colleges, universities, and technical colleges. “MENTOR A MEMBER.”

Finally, my personal thanks to two people who have been working very hard behind the scenes for the Division: Dan McGinley in assembling and editing this newsletter, and Alan Prasuhn in organizing our next national meeting. Sign up now for the meeting in Seattle from June 28 to July 1, 1998. You won’t be disappointed!

Tom Lenox
United States Military Academy

MILITARY EXCHANGE: Tom Lenox, USMA is congratulated by outgoing Civil Engineering Division Chair Howard Dunn, USCGA

Photo by Vince Drnevich
1998 ASEE Annual Conference — June 28 - July 1, 1998

SEATTLE!

We are working to make this the best-ever ASEE Annual Conference. We need your help to make this the best attended conference. The technical sessions have now been finalized. Please review the following program and make plans to join us next June in Seattle.

- Civil Engineering Division Activities
- Five Meal Events (including our annual Tuesday night convivial Civil Engineering Division dinner)
- One Rap Session for open-forum type discussion
- Four Technical Sessions (plus some cosponsored sessions)

Technical Sessions scheduled for the 1998 Annual Conference

IMPACT OF INFORMATION TECHNOLOGY ON ENGINEERING EDUCATION

Moderator: Robert Henry

Abstract: Discussion of the impact on departments, faculty development, and student recruitment of the use of information technology.

Presentations:
- “Incorporation of Distance Engineering in an Introductory Freshman Course In Civil Engineering” Paul Mathisen, Frederick Hart & Tahar El-Korchi
- “Development, Implementation, and Preliminary Assessment of a Virtual Laboratory for Probability and Statistics” Stephanie Yarbrough & Robert Gilbert
- “The Civil Engineering Resource Library-Developing a Multi-Media Education Resource” Paul Chinowsky
- “Toward New Paradigms in Teaching Experimental Design and Analysis” George List, Simeon Komisar & Thomas Zimmie

Sponsored by the Committee on Computer Applications

INTEGRATING ENVIRONMENTAL ISSUES IN ENGINEERING

Moderator: Dr. Kauser Jahan

Presentations:
- “Molecules Moving in Monoliths - Is This Civil Engineering?” Marilyn Barger
- “Geoenvironmental Engineering-An Integral Part of Civil Engineering” Beena Sukumaran
- “Integrating Environmental Issues Into Civil Engineering Design” Dee Ann Sanders
- “Design for the Environment” Kauser Jahan

Sponsored by Committee on Computer Applications

(continued on page 4)
CASE STUDIES ON 1998 CE ABET VISITS

Moderator: Dennis Fallon

Abstract: Case studies on 1998 ABET visits to CE departments at Georgia Tech and Union College emphasizing preparation, evidences of satisfying criteria, and actual visit experience.

Presentations: “ABET 2000 Visit at Georgia Tech - Chairman’s Perspective” Michael Meyer
“ABET 2000 Visit at Georgia Tech - Evaluator’s Perspective” Richard Anderson
“ABET 2000 Visit at Union College - Chairman’s Perspective” Thomas Jewell
“ABET 2000 Visit at Union College - Evaluator’s Perspective” William Highter

Sponsored by The Committee on Educational Policy

PE AND FE EXAMS AS ASSESSMENT TOOLS

Moderator: Samuel Clemence

Abstract: Discussion of what data are available, how data are used to assess programs, and methods to add additional programs (e.g. environmental and construction) to the afternoon FE exam.

Presentations: “Overview of PE/FE Exams and Use as Assessment Tools” John Steadman
“Use of PE/FE Exams as Assessment Tools in Civil/Environmental Engineering” Walter LeFevre
“Opposition of Use of PE/FE Exams as Assessment Tools” Vince Drneich

Sponsored by The Committee on Professional Practice

INNOVATIVE TEACHING METHODS AND CURRICULUM DEVELOPMENT

Moderator: Stephen Ressler

Abstract: Presentations Discussing Innovative Teaching Methods and Curriculum Developments in Civil Engineering Education.

Presentations: “Models, Models, Models: The Use of Physical Models to Enhance the Structural Engineering Experience” Douglas Schmucker
“Hands-On Geotechnical Engineering at the Undergraduate Level” Gregg Piegel & Jay DeNatale
“Introducing Civil Engineering Measurements Through Bridges” Johan Kauser, Ralph Dusseau, & John Schmalzel
“Defining and Implementing an Integrated Civil Engineering Supercourse” Marvin Criswell & Thomas Siller
“NSF Funding Opportunities in Engineering Education and NSF-Funded Civil Engineering Education Projects” Jay Puschke

Sponsored by The Committee on Teaching Methodology

(continued on page 5)
## ANNUAL CHI EPSILON LUNCHEON

**Wednesday, July 1, 1998**

**Invited Speaker**: Jim Poirot, Past President of ASCE  
**Role of Sustainable Development in Civil Engineering Education**

*Alternatively, we may present IPP's "Testing Water ... and Ethics" video and conduct a roundtable review and discussion.*

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## Program Summary

**Civil Engineering Division, ASEE - 1998 Meeting: Seattle, Washington**

<table>
<thead>
<tr>
<th>SESSION TIME</th>
<th>MONDAY, JUNE 29</th>
<th>TUESDAY, JUNE 30</th>
<th>WEDNESDAY, JULY 1</th>
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</thead>
<tbody>
<tr>
<td>7:00 to 8:15 a.m.</td>
<td>Session 1115: Executive Board Meeting and Breakfast</td>
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<tr>
<td>8:30 to 10:15 a.m.</td>
<td>Session 1115: (cont'd) Executive Board Meeting and Breakfast</td>
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<td>Session 3215: Impact of Info. Tech. on Engng. Education</td>
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<tr>
<td>10:30 to Noon</td>
<td>Main Plenary</td>
<td>Session 2415: Planning Meeting and Luncheon</td>
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<tr>
<td>12:30 to 2:00 p.m.</td>
<td>General Business Meeting and Luncheon</td>
<td>Session 2515: PE and FE Exams as Assessment Tools</td>
<td>Session 3415: Chi Epsilon Luncheon (Speaker: Jim Poirot, Past President of ASCE)</td>
</tr>
<tr>
<td>2:30 to 4:15 p.m.</td>
<td>Focus on Exhibits</td>
<td>Session 2615: Integrating Environmental Issues in Engineering</td>
<td>Session 3615: Innovative Teaching Methods &amp; Curriculum Development</td>
</tr>
<tr>
<td>4:30 to 6:00 p.m.</td>
<td>Session 1615: Case Studies on 1998 ABET Visits</td>
<td>Session 2815: Annual Social &amp; Dinner at Fisherman's Restaurant</td>
<td>Session 3805: ASEE Annual Awards Banquet (reception starts at 6:30 p.m.)</td>
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<tr>
<td><strong>Evening</strong></td>
<td>CE RAP Session at local university featuring new 28-min. IPP ethics video</td>
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And this is on top of all the other Society functions! Full details are available in the Annual Conference program. Late June will be a great time to visit Seattle. We have been promised a mild climate, plenty of sun, and no rain. So talk your colleagues into attending, and make plans to bring the family along.

Visit the ASEE website asee.org for additional details.

*Alan Prasuhn  
Lawrence Tech*
INSIDE ASCE

As an odd-year CE Division Chair, I have the privilege of being our representative to the Educational Activities Committee (EdAC) of ASCE. I have never been a part of such an active national committee, reflecting its leadership (Rich Anderson, Chair; Mike Skelly, Immediate Past-Chair) and the membership of some outstanding civil engineers. Here’s a sampling of some of EdAC’s activities:

- EdAC has completed a comprehensive visioning process that was begun in January 1997; I was a member of the visioning subcommittee. A complete review was conducted of the mission, goals, charges, deliverables, and organization of EdAC and each of its constituent committees. Recommendations from this visioning were submitted to the ASCE Board in January 1998. Some key recommendations included:

1. Creation of a new Committee on Faculty Development to identify, develop, and promote programs for the development of CE faculty as effective teachers and role models for the profession.

2. Increased involvement of CE Department Heads in EdAC activities through the Department Heads Council Executive Committee.

3. A new Education Programs Committee to prepare programs and sessions focusing on an annual educational “spoke” at the ASCE National Convention (rather than the five-year Education Conferences held during the past).

- The Department Heads’ Council (DHC) of EdAC has been increasingly active in addressing institutional concerns related to education and research. Under the leadership of Vince Drnevich (Purdue University), the DHC has been pressing for an increased voice in the full spectrum of EdAC activities. Of course, Vince is an active leader of our Division and our current Secretary-Treasurer. The range of the DHC activities during the last year has been incredible – see the November 1997 issue of the ASCE News for a summary of some of their activities during the last year.

- One of my EdAC duties is to serve as the ASCE News correspondent for educational activities. This is an efficient method of informing the entire CE community about engineering educational programs of interest to CE professionals. I am constantly on the lookout for interesting articles. If you have a timely news article concerning CE education, submit it to me for publication in ASCE News. Supporting photographs help “sell” the article to the News editor. For more info/ procedures, please contact me (tlt860@trotter.usma.edu).

Tom Lenox
United States Military Academy

PLAN NOW TO ATTEND
ASEE ANNUAL CONFERENCE
SEATTLE, WA
JUNE 28-JULY 1, 1998

INDUSTRY-UNIV-GOV'T
EDUCATION ROUNDTABLE

In 1995 the Boeing Company facilitated the start of the Industry-University-Government Roundtable for Enhancing Engineering Education (IUGREEE). The Roundtable met in Mesa, Arizona November 10th and 11, 1997 and its next meeting will be at Worcester Polytechnic Institute in late spring of 1998.

Although, largely made up of representatives from the aerospace industry, the goals of the Roundtable are broad based and are directed at improving engineering education. The Roundtable is actively working to assist ABET in implementing EC 2000 by improving communications among industry and academia. One of the documents that was discussed at the meeting in Mesa was the vision of the future of engineering education and practice described in Positioning Engineering Education for Year 2010. Although the vision clearly reflects its aerospace roots, many of the ideas apply to all engineering fields.

Bill Kelley
Catholic University
CE EDUCATION INITIATIVES

The Final report of the ASCE Task Committee on Civil Engineering Education Initiatives (TCCEII) is being presented to the ASCE Board of Direction for consideration at their April 18-19, 1998 meeting.

TCCEII was formed as a result of the 1995 CE Education Conference. Composed of members representing the practice of civil engineering and the formal education of future civil engineers, the task committee addressed recommendations of the conference as presented in the Summary Report. Specific outcomes and recommendations for future efforts resulting from the work of the task committee are discussed in the areas of faculty development, an integrated curriculum, practitioner involvement and the first professional degree. The task committee strongly urges the Board of Direction to continue to increase efforts and support for educationally related activities to ensure that the best prepared civil engineering graduates represent and lead our profession in the future.

The TCCEII Final Report contains several specific recommendations requesting:

- endorsement of a Memorandum of Understanding stating that the education of aspiring engineers is a shared responsibility by educational institutions, employers and professional societies

- prompt establishment of the proposed Committee on Faculty Development

- ASCE to begin fundraising to support a foundation to encourage experimentation with methods of integrating the development of skills such as communication, management, teamwork, and leadership into civil engineering curricula

- immediate implementation of the proposed Education Programs Committee to spotlight educational issues at all national conferences

- the proposed Committee on Faculty-Practitioner Interaction to encourage the development and appropriate utilization of advisory committees at the civil engineering department level

- ASCE to adopt the proposed resolution regarding the first professional degree as shown in box at left.

TCCEII members agree that the education of future civil engineers is a major, if not the most significant, factor in the future of our profession. The educational system is complex, has great inertia, and is greatly influenced by local conditions. However, TCCEII believes that positive change and progress is occurring and will continue particularly with the appropriate and continued involvement of ASCE.

Watch ASCE News and Civil Engineering magazine for results of the Board’s deliberations on these recommendations. Comments or questions may be addressed to:

Dr. Michael Kupferman, P.E.,PhD
Managing Director, Professional,Education and Technical Affairs Division
American Society of Civil Engineers
1801 Alexander Bell Drive
Reston, VA 20191

Dan McGinley
Institute for Professional Practice
SCHOLARSHIP REDEFINED

The main objective of the ASCE Task Force on Redefining Scholarly Work, which commenced its work in May, 1997, was to raise fundamental issues for civil engineering educators by offering a broader definition and understanding of the professional work of faculty. The major issues raised today in evaluating faculty scholarly contributions in the usual triumvirate of scholarship, teaching, and service, includes the need to have a clear awareness of the following: institutional mission; departmental mission and resources; size of the institution; accreditation criteria; professional organizations; collective bargaining; classification of the institution; disciplinary objectives; new technologies and research.

The Task Force has proposed a flexible model for defining the work of CE faculty. The model is based on a “wheel”. The “hub” of the wheel is the university mission, resource and goals; the “hub cap” of the wheel represents teaching, scholarship, and professional development and service; the “spokes” of the wheel represent interfaces between these three areas, and the “tire” defines the quality of faculty work. The flexibility of the model is inherent in the interfaces or “spokes” which represent gray areas which can be defined by individual departments based on perceived needs.

The Task Force’s report is available on the WWW at: http://ce.wwww.ecn.purdue.edu/~dmevich/FacWork.html

Sam Clemence
Syracuse University

STATUS OF MANDATORY CONTINUING EDUCATION

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<th>Required State</th>
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<td>Virginia</td>
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Source: Chronicle of Higher Education 3/13/98
NEW CIVIL ENGINEERING PROGRAM CRITERIA

New program criteria for architectural, civil and construction engineering have been approved by the ABET Board and are now posted on the ABET (http://www.abet.org) & ASCE (http://www.asce.org) web sites. The final versions are essentially as recommended by ASCE.

Under the new ABET Criteria - Engineering Criteria 2000 (EC 2000), program criteria may only address curriculum and faculty. The general curricula areas covered in the various program criteria are similar, but the outcomes expected vary considerably and this will present some challenges as we move into actual assessment. For example, a number, but not all, of the program criteria require mathematics through differential equations.

For the expected outcome, however, agricultural, architectural, biological, civil and construction require that graduates must demonstrate proficiency in mathematics through differential equations whereas others e.g. electrical, computer, and similarly named engineering programs require that graduates must demonstrate a knowledge of mathematics through differential equation while still others require an ability to apply mathematics through differential equations.

For comparison, the basic requirement as defined in the general criteria requires one year of a combination of college level mathematics and basic sciences appropriate to the discipline (criterion 4(a)) and criterion 3(a) requires that programs must demonstrate that their graduates have an ability to apply knowledge of mathematics, science, and engineering. Since the mathematics content through differential equations is often common to all the engineering programs at an institution, these differences in expected outcomes will have to be addressed in developing appropriate assessment processes for each program.

Civil engineering, graduates must also demonstrate a proficiency in a minimum of four (4) major civil engineering areas. Although this is a relatively high level of accomplishment, it is consistent with what was required of civil engineering graduates in the past and it is specific to civil engineering graduates.

Criteria dealing with laboratories and design are looking for graduates to demonstrate abilities which do not go much beyond what is required in the general criteria and should not pose any particular challenges for civil engineering programs.

Finally the new program criteria require graduates to demonstrate an understanding of various professional practice issues. This is new but, in my view, is an appropriate extension of the general criterion for civil engineering.

For faculty, several program, including architectural, civil and construction have a requirement for faculty teaching design to demonstrate that they are qualified to teach design. This does not appear to pose any special expectation for civil programs versus other programs or beyond what had been expected under the old criteria.

The ASCE CC&A has prepared a draft Commentary on the program criteria which is available on the ASCE web site. The Commentary is written for program evaluators and provides guidance on how to interpret the new program criteria. The manual is a thoughtful document and should be studied and discussed by civil engineering faculty as they prepare for EC 2000. EC 2000 is an opportunity to improve civil engineering education if the innovation that is hoped for actually happens. It will only happen if we involve most faculty in this new paradigm for accreditation.

Bill Kelley
Catholic University

GOOD HELP IS HARD TO FIND

The young engineer was working late one evening. As he stepped out of his office to get some coffee, he saw the boss standing by the office shredder, a piece of paper in his hand. "Do you know how to work this thing?" the older man asked. "My secretary's gone home and I don't know how to run it."

"Yes, sir," the eager underlying replied. He turned on the machine, took the paper from the other man and fed it in.

"Oh, thanks," his boss said. "One copy will be fine."
American Society for Engineering Education

Civil Engineering Division

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E-Mail: prasuhn@ltu.edu

NEW ENGINEERING EDUCATOR’S SUCCESS KIT COMMITTEE
William E. Kelly, Chair
Dean of Engineering
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Cardinal Station
Washington DC 20064.
Phone: (202) 319-5160
FAX: (202) 319-4499
E-Mail: wkelly@pluto.ee.cua.edu

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SPECIAL COMMITTEES

BYLAWS COMMITTEE
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P.O. Box 7908
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American Society for Engineering Education
CIVIL ENGINEERING DIVISION

MINUTES OF THE ANNUAL
BUSINESS MEETING
Milwaukee, WI, June 16, 1997

1. Call to order by Chair, Howard Dunn at 1:05 PM.
   1.1. Attendance List is given in Attachment 1.

2. Introductions - Dunn

   Chair Thomas A. Lenox
   Vice/Program Chair Alan L. Prasuhn
   Director 1997-2000 J.P. Mohsen

2.2. Appointments by the Executive Board at its
     meeting on June 16, 1997

   • Sam Clemence Director to fill Alan
     Prasuhn’s term
   • Dan McGinley new Division Editor to
     replace Alan Prasuhn.
   • Robert Henry to new position of Web
     Page Coordinator.

3. Reports

3.1. Secy/Treasurer’s Report - Vince Drnevich

   3.1.1. Approval of minutes of from June 24,
          1996, Washington, D.C.
          Moved by Vince Drnevich, seconded by
          Bob Henry, motion approved.

   3.1.2. Financial Report for FY 96 and FY 97
          to date. (See Attachment 2)
          Moved by Vince Drnevich, seconded Bob
          Henry, motion approved.

3.2. Program Chair’s Report - Tom Lenox (See
    summary, Attachment 3.)

3.3. Discussion on sessions at this meeting:
   3.3.1. Donn Hancher on Session 1615 ABET
          2000 Trial Reviews of CE Programs
   3.3.2. RAP Session at Marquette, hosted by
          Tom Wenzel, Chair of CE Dept.
          Marquette will cover the cost of the
          refreshments

   3.3.3. Session 2368 on The Undergraduate
          Research Experience c/o hosted with
          Mechanics Tom Lenox one of
          moderators.

   3.3.4. Information on Annual Social & Dinner
          on Tuesday evening at John Ernst
          Restaurant. Luther Graef, Pres. Elect of
          ASCE will attend the dinner and make a
          few remarks.

   3.3.5. Sam Clemence will represent Ron
          Buchan in Session 2515 on “Desired
          Competence of CE Graduates”

   3.3.6. Antonio Trani will replace William
          Knocke as the moderator on Session 2615,
          “NSF Coalitions and Innovations in CE.”

   3.3.7. Steve Ressler will lead Session 3215 on
          Wednesday morning on “Computers in the
          Civil Engineering Curriculum.” (Free
          software will be given out.)

   3.3.8. Chi Epsilon Luncheon on Wednesday
          will feature presentation by Luther Graef,
          President Elect of ASCE.

3.4. Education Activities Committee Report
     (EdAC) - Tom Lenox

   3.4.1. Great Experience. Good to have liaison.
          Duties: 1) Correspondent for ASCE News;
          feed news to Tom Lenox whenever
          available; published monthly. 2) Sit on
          Committee that publishes the Journal of
          Professional Issues and Civil Engineering
          Education.

3.5. Committee on Curricula and Accreditation
     (CC&A) - Howard Dunn

   3.5.1. Engineering Criteria 2000, Civil
          Engineering Program Criteria.) Session
          tomorrow. Dunn on program.

   3.5.2. Evaluator Hiatus and training of
          evaluators. Training sessions planned in
          Minneapolis at ASCE Convention in
          October and at EdAC meeting in Miami in
          late October. Interested persons are
          invited to attend one of these sessions.

3.6. Kelly on New Educators Success Kits -
     Twenty five sold last year. Sit tight with that
     product for the next year. Lenox has ideas on
     replacement books.

3.7. Drnevich on the Department Heads Council
     (See Attachment 4.)

(continued on page 13)
ANNUAL MEETING MINUTES
(continued from page 12)

3.8. Kelly on TCCEBI - Some things for faculty starting out (faculty development). Looking for ideas. Getting them out to you. Outcomes from 1995 Ed. Conf. to be put into practice. Contact him with your ideas.

3.9. Web Site - Bob Henry Chair, ASEE Home Page, utilize it. Create one for CE Div. Wants volunteers, see him or contact through e-mail: robert.henry@unh.edu

4. Civil Engineering Div Planning Luncheon - Dunn

5. Other old business - Dunn (There was none.)

6. New Business - Chair
6.1. Ralph Dusseau - Faculty positions available at Rowan University

6.2. Information for meeting next year - Lenox passed out Call for Papers for meeting next year, June 28- July 1, 1998, Seattle. (See attachment No. 5)

7. Introductions of the 36 people in attendance. (See attachment No. 1)

8. Adjourn - Kelly moved, Dnevich seconded, motion approved. Meeting adjourned at 1:45 pm.

Vincent Dnevich
Purdue University

CALL FOR PAPERS

Civil Engineering Division
American Society for Engineering Education

For presentation at the 1998 ASEE Annual Conference
June 28 - July 1, 1998, Portland, Oregon

The Call for Papers is designed to encourage participation by
1998 engineers in the educational process.

- Outcomes Assessment in Engineering Education
- Effects of Change in Engineering Learning Environments
- Use of Information Technology in Enhance CE Education
- Involving Students in the Technical Work Process
- Innovative Approaches to Engineering Education

Deadline is December 1, 1997 for submission of title and summary

Please refer to the Call for Papers for complete information.

Attachment 1. Attendance Roster

<table>
<thead>
<tr>
<th>Name</th>
<th>School/Org/Firm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vincent Dnevich</td>
<td>Purdue</td>
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<tr>
<td>Bob Henry</td>
<td>Univ. of New Hampshire</td>
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<tr>
<td>Jim Hanson</td>
<td>Lawrence Tech</td>
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<tr>
<td>Alastair Prasuhn</td>
<td>Lawrence Tech</td>
</tr>
<tr>
<td>R. E. Hamerwick</td>
<td>Univer. of the Pacific</td>
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<tr>
<td>Russ Jones</td>
<td>NSPE</td>
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<tr>
<td>Bill Wilhelm</td>
<td>Wichita State Univ.</td>
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<tr>
<td>Ed Segner</td>
<td>U. of Alabama-Birmingham</td>
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<tr>
<td>Sam Clements</td>
<td>Syracuse Univ.</td>
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<tr>
<td>Gerald Seley</td>
<td>Valparaiso Univ.</td>
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<tr>
<td>Jim Naujalis</td>
<td>Univ. of Kentucky</td>
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<tr>
<td>Donn Hancker</td>
<td>Univ. of Kentucky</td>
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<tr>
<td>Jeffrey S. Russel</td>
<td>Univ. of Wisconsin</td>
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<tr>
<td>Jim Yao</td>
<td>Texas A&amp;M Univ.</td>
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<tr>
<td>Mike Phang</td>
<td>Univ. of Miami</td>
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<tr>
<td>Farouk Misheh</td>
<td>Tennessee State Univ.</td>
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<tr>
<td>K.K. Muraleetharan</td>
<td>Univ. of Oklahoma</td>
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<tr>
<td>George Blandford</td>
<td>Univ. of Kentucky</td>
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<tr>
<td>Scott Yost</td>
<td>Univ. of Kentucky</td>
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<tr>
<td>Stephen Ressler</td>
<td>U.S. Military Academy</td>
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<tr>
<td>Tom Lenox</td>
<td>U.S. Military Academy</td>
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<tr>
<td>Dan McGinty</td>
<td>Inst for Professional Practice</td>
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<tr>
<td>Bill Weisen</td>
<td>Penn State - Harrisburg</td>
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<tr>
<td>Kavish Jahan</td>
<td>Rowan University</td>
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<tr>
<td>Shashi Sathian</td>
<td>Univ. of Nevada, Las Vegas</td>
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<tr>
<td>Howard Dunn</td>
<td>U.S. Coast Guard Academy</td>
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<tr>
<td>Ralph Dusseau</td>
<td>Villanova University</td>
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<tr>
<td>Shaha Mekahoun</td>
<td>U. of Kentucky</td>
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<tr>
<td>Bill Kelly</td>
<td>Catholic Un. of</td>
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<tr>
<td>Dave Wall</td>
<td>Univ. of New Haven</td>
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<tr>
<td>Michael Kupferman</td>
<td>A.C. State Univ.</td>
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<tr>
<td>Bob Tener</td>
<td>Purdue</td>
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<tr>
<td>Dennis Fallon</td>
<td>The Citadel</td>
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<tr>
<td>Ken Brannan</td>
<td>The Citadel</td>
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<tr>
<td>Marvin Criswell</td>
<td>Colorado State Univ.</td>
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<tr>
<td>Paul King</td>
<td>Northeastern Univ.</td>
</tr>
</tbody>
</table>

Attachment 2. FY96 and FY97 Budgets - see page 8
Attachment 3. Milw Program Summary - see below

Attachment 4. DHC Chair - available from ASCE
Attachment 5. Seattle Call for Papers - see left
COMPUTER EDUCATION

The Committee on Computer Applications sponsored an informative session titled "Computers in the Civil Engineering Curriculum" at the 1997 Conference in Milwaukee. We were very fortunate to receive the coveted Wednesday morning time slot, thus ensuring that the session would be attended by only the most committed and dedicated members of the ASEE Civil Engineering Division.

Steve Ressler of the US Military Academy moderated the session. There were three presentations. Bob Henry of the University of New Hampshire described his ongoing efforts to develop SEVE, a Structural Engineering Visual Encyclopedia, for deployment of the worldwide web. (see related SEVE article).

Chandra Brahma and Howard Biddlecome of CSU, Fresno, discussed the PC-based software package they have developed for design of excavation support systems in fine-grained soil. The software eliminates the prodigious hand calculations normally required for support system design, thus providing students with the capability to work a more comprehensive range of design problems.

Finally Tom Lenox and Steve Ressler of the USMA closed the session with a summary of recent efforts to integrate information technology throughout the USMA CE curriculum, with emphasis on the expanded use of Mathcad to facilitate engineering analysis and design computations. This presentation also included a demonstration of Steve Ressler's West Point Bridge Designer software, used as the basis for an introductory design experience in an undergraduate Statics course.

Steve Ressler
United States Military Academy

SEVE-UNH WORKSHOP

A workshop introducing a new software package for structural engineering and related course: Structural Engineering Visual Encyclopedia (SEVE - UNH). The primary focus of SEVE - UNH is to help civil engineering students learn to read and interpret engineering drawings. The program also functions as a visual encyclopedia for structural engineering terminology. When looking up a term, a student is presented with some textual information as well as some visual information.

**SESSION: 0215**
Sponsors: CE Division, NSF
Date: Sunday, June 28, 1998
Time: 8:30 a.m. - 12:30 p.m.
Type: Workshop Price: 0.00

The objective of the workshop will be to familiarize civil engineering educators with the capabilities of the program SEVE and how it might be incorporated in one of several different courses: Introduction to Civil Engineering, Civil Engineering Applications, Structural Analysis, one of several design courses, etc. The software has the ability to be easily updated to modify existing terms and add new terms. In order to do this, a person needs to be aware of what it takes to develop visual information in different forms; images, photographs, animations, movies, virtual reality, solid models, etc. Therefore, many of these multi-media topics will also be discussed and associated software packages will be demonstrated.

There is a limit of 26 people for the workshop. The seating will be on a first come basis. Therefore, in order to hold a seat one must make reservations with Robert Henry, tel#: 603-862-1444 or EMAIL: robert.henry@unh.edu.

Session: 3215
Impact of Info. Technology on Engineering Education

Date: Wednesday, July 1, 1998
Time: 8:30 a.m. - 10:15 a.m.

Papers:
- "Development, Implementation and Preliminary Assessment of a Virtual Laboratory for Probability and Statistics", by Stephanie Yarbrough and Robert Gilbert, Univ. of Texas, Austin.
- "Incorporation of Distance Learning into an Introductory Freshman Undergraduate Course in Civil Engineering", by Paul Mathieson, Frederick Hart, and Tahar El-Korchi, Worcester Polytechnic Institute.
The Truesteel Affair... Gilbane Gold...

Testing Water ...and Ethics

The ABET 2000 Criteria clearly states (Criterion 3. Program Outcomes and Assessment) "Engineering programs must demonstrate that their graduates have... (f) an understanding of professional and ethical responsibility." Now the Institute for Professional Practice (IPP), a non-profit engineering society dedicated to helping engineering students and recent graduates in their professional development, has produced a 28-minute video addressing just this issue: Testing Water ...and Ethics.

"Testing Water...and Ethics" depicts a realistic ethical problem in engineering within an organizational setting. Porter/Rodman Engineering Co. has been retained to drill water test wells on a property that will be sold for development. State regulations require three wells to be drilled near a leaking gasoline storage tank and their results reported. The owner of the property has asked for two additional wells whose results do not have to be reported. All test results are under state limits, but the two additional wells show a significantly higher level of contamination. One engineer, Jim Duffy, believes that the company has a professional ethical obligation to report the results from the two additional wells, and the video addresses the complex set of ethical and business issues this raises. The resolution of the problem is not obvious and must be reached through analysis, judgment, and negotiation. Near the end of the story viewers are invited to discuss four alternative solutions Porter/Rodman is considering. An Epilogue shows one acceptable solution and how it was reached.

The Institute for Professional Practice (IPP) created this video in order to achieve these goals:

- To foster awareness of ethical problems in engineering.
- To increase sensitivity to the complexity and ambiguity of ethical problems in engineering.
- To model the successful handling of an ethical problem in an organizational setting.
- To promote the IPP Method for dealing with ethical problems in engineering.

Copies of the video and accompanying workbook are available from IPP. The program costs $150, but college/university faculty may obtain single copies for $100. If you are interested, contact IPP at 1-888-IPP-2723.

Sam Clemence
Syracuse University

Committee on Education Policy

ABET 2000 REVIEWS

The Committee held a very interesting session last summer in Milwaukee at the Annual Meeting on ABET 2000. The ABET reviewers and the CE chairs for the University of Arkansas and Worcester Polytech gave very interesting reviews of their experiences on the first trial ABET 2000 reviews. The session was very well attended.

Due to the high level of interest in all engineering programs, the Committee decided to hold a similar session in Seattle in June 98 at the Annual Meeting. Representatives from ABET and the CE programs at Union College and Georgia Tech will present their views on the ABET 2000 reviews held in the Fall 1997. Dennis Fallon, Head of Civil and Environ. Engineering at The Citadel will chair the session and can be contacted for more information.

Along with the ABET 2000 requirements for all engineering programs is the demand for well-managed data collection and assessment to evaluate program objectives and success. This is a challenge to all engineering programs and the Committee intends to concentrate on the issues of Program Assessment at future ASEE Annual Meetings. Interested persons are urged to attend the meetings and contribute to the discussion of possible solutions.

Donn Hancher
University of Kentucky
APPLIED ETHICS IN PRACTICE

Several years of experience with the Institute’s Issues in Professional Engineering Practice course and reports from others around the country indicate that students in engineering schools and young practicing engineers today need to be better-prepared to deal with the many ethical situations professional practice presents.

As a result, IPP is developing a new instructional module entitled Applied Ethics in Professional Practice to provide engineering students and emergent engineers with an understanding of the factors impacting ethical decision making in engineering practice. The program is being developed by Rick McCuen at Maryland University and is structured around a constructivist philosophy. The basis for this philosophy is that the learners will have a better grasp of the concepts when they construct their own knowledge of professional ethics, as opposed to passively being told how to make value based decisions. This philosophy is appropriate for both college-aged students studying in professional degree-granting programs and professionals with several years of practice.

The goals of this program are as follows:

- To understand multifaceted value responsibilities of a professional: self, employing organization, the client, the profession, and society
- To help the participants recognize the array of value obligations that professionals must consider; this will enable them to move to a higher stage on the ethical dimension of professional development.
- To recognize that value decisions are often just as important as technical issues in making professional decisions
- To be aware of the profession’s expectations for professional conduct
- To know how to handle ethical conflicts so that all value responsibilities are properly balanced

This new course module, including a participant’s reader and an instructor’s guidebook, will be available during the Summer of 1998.

Sam Clemence
Syracuse University

The IPP Way

Identify
Plan
Practice

(contact IPP at 973-857-6511)

SPEAKING OF ETHICS...

An engineer dies and reports to the pearly gates. St. Peter checks his dossier and says, “Ah, you’re an engineer -- you’re in the wrong place.”

So the engineer reports to the gates of hell and is let in. Pretty soon, the engineer gets dissatisfied with the level of comfort in hell, and starts designing and building improvements. After a while, they’ve got air conditioning and flush toilets and escalators, and the engineer is a pretty popular guy.

One day God calls Satan up on the telephone and says with a sneer, “So, how’s it going down there in hell?” Satan replies, “Hey, things are going great. We’ve got air conditioning and flush toilets and escalators, and there’s no telling what this engineer is going to come up with next.”

God replies, “What?? You’ve got an engineer? That’s a mistake -- he should never have gotten down there: send him back up here.” Satan says, “No way. I like having an engineer on the staff, and I’m keeping him.” God says, “Send him back up here or I’ll sue.” Satan laughs uproariously and answers, “Yeah, right. And just where are YOU going to get a lawyer?”
**42,000 TAKE EXAM**

Following are the Civil Engineering Results from National Council of Engineering Examiners for Engineering and Surveying (NCEES) Fundamentals of Engineering (FE) Examination

About 42,400 individuals took the FE exam in October 1996 and April 1997. Thirty-nine percent of these were classified as civil engineers. Of those classified as civil engineers, seventy-seven percent were ABET-accredited engineering program graduates. Seventy percent of those accredited program graduates took the exam for the first time. Forty-two percent took the afternoon General module and fifty-eight percent took the afternoon CE module. The passing percentage varies with population grouping and time of examination. As a general statement, those civil engineering examinees taking the CE module have a passing percentage of 90 percent more than those taking the General module.

As a general rule, those with an accredited degree have a passing percentage of seven percent more than the general examinee population. The passing percentage is generally three to four percent higher for those taking the exam in April. The passing percent for both exams for first timer takers from ABET accredited programs was 84%.

**Problem writers are needed for FE problems.**

Contact Walter LeFevre (wle@engr.uark.edu) for additional information on how to write acceptable problems. The decision has already been made to go to all computerized examinations in the near future (before Spring 2000). The Graduate Record Exam (GRE) is already in that format. The ASCE committee that interfaces with NCEES is the Committee on Professional Registration (COPR).

Walt LeFevre
University of Arkansas

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**EDITOR'S COLUMN**

**WONDER WHERE THE YELLOW WENT?**

For those of you who keep every issue of the CE Division newsletter, you've probably noticed that the blue-yellow-blue pattern you've grown comfortable with has been inexplicably broken - begging the question "I wonder where the yellow went?"

By way of introduction, I'm Dan McGinley, the new newsletter editor; desperately trying to uphold the high standards set by predecessors Alan Prusulhn and Paul Hartman. If the name sounds familiar, we may have met during the sixteen plus years I worked for ASCE. Or perhaps we interacted more recently in my role as Executive Director of the Institute for Professional Practice (see articles on pages 15 & 16).

In any event, I am looking forward to hearing from you on all issues affecting civil engineering education. I would like to be assured that this newsletter is worthwhile. I can't do it without your help. Please send me statistics, articles and your opinions. My heartiest “thanks” to everyone who contributed to make this issue possible.

Which gets back to the question at hand - “wonder where the yellow went?” My inaugural attempt at assembling the newsletter died for lack of a second (or in this case, actually a fourth) contributor, that is.

I'm sure I've overlooked several opportunities for great material, so PLEASE send them to me. I would like to have this newsletter encourage people to join the CE Division. I would like to include statistics (CE historical degree production, enrollment trends, number of practitioners in the CE Division, etc.) "Letters to the Editor", a "point-counterpoint" section on controversial topics, and maybe even a guest editorial, say from the President of ASCE. This would be a good forum for editorials from the leaders of Chi Epsilon, multi-national consulting firms and government agencies. How about some practical stuff like CE contacts at NSF and other funding agencies or a fax-back question with the answers in the next issue? Whoa, I'm starting to ramble!

THANK YOU for taking the time to read through this AND for sending me your input. If you have any suggestions, please call me at 973-857-6511 or send an e-mail to: Bridge2PE@aol.com

Dan McGinley
Editor
ASEE CIVIL ENGINEERING DIVISION—ANNUAL BALLOT

Biographical Sketches follow, and the formal BALLOT is located on the final page of this newsletter

For Chair-Elect/Program Chair

James M. Nau, Ph.D.

James M. Nau, Associate Professor of Civil Engineering, has been on the faculty at North Carolina State University since receiving his Ph.D. degree from the University of Illinois at Urbana-Champaign in 1982. He teaches undergraduate courses in reinforced concrete and structural steel design. At the graduate level, he teaches an advanced steel behavior course and courses on structural dynamics and earthquake engineering. He has conducted research in these areas with support from the National Science Foundation and the U.S. Army Corps of Engineers. Jim has a keen interest in engineering education. He has been a principal investigator for a project sponsored by SUCCEED, an NSF Engineering Education Coalition.

He is an active member of ASEE, serving as past Chairman of the Committee on Teaching Methodology, and he is currently serving in his third year as Director of the Civil Engineering Division. He is also active in ASCE. He has served as an Associate Editor of the Journal of Structural Engineering, and he is currently Chairman of the Committee on Shock and Vibratory Effects. He has received several teaching awards including an NCSU Alumni Distinguished Professorship in 1991 and the AT&T Foundation Award from the Southeastern Section of ASEE in 1989.

For Secretary-Treasurer

Kamyar C. Mahboub, Ph.D., PE

Dr. Kamyar C. Mahboub received his BS in Civil Engineering from the University of Texas at Austin. He attended Texas A&M University for graduate studies in Civil Engineering, where he received his MS in 1985, and his Ph.D. in 1988. In addition to his studies and projects, he was also a referee for little league soccer games in Texas; he received the U.S. Soccer Association Referee Certificate. Dr. Mahboub joined the University of Kentucky faculty in 1988 where he has devoted a large portion of his time to offering new courses in the area of civil engineering materials and pavements. During his tenure at U.K., Dr. Mahboub has offered three new courses, and modified two existing courses.

Dr. Mahboub is very active in professional societies (ASCE, ASEE, ASTM, AAPT, KSPE, NSPE, TRB, XB). His honors include: 1990 ASCE Edmund Friedman Young Engineer Award (an award given annually to no more than five young civil engineers for exceptional achievement and service), and Faculty Member of the University of Kentucky Chapter of Chi Epsilon. Dr. Mahboub served as Faculty Advisor for the U.K. Student Chapter of ITB and as the Academic Coordinator of the Advanced Transportation Institute (ATI, 1994-1996). Kentucky ATI is one of fifteen nationally recognized centers of excellence for graduate education in transportation. Dr. Mahboub is a registered Professional Engineer in Kentucky and Texas.

For Director 1998-2001

Stephen Ressler, Ph.D., PE

Lieutenant Colonel Stephen Ressler is Professor and Deputy Head of the Department of Civil and Mechanical Engineering at the United States Military Academy, West Point. He is a graduate of West Point and holds a Master of Science in Civil Engineering and a Ph.D. in Civil Engineering, both from Lehigh University. For the past 18 years, Steve has served as a commissioned officer in the U.S. Army Corps of Engineers, with assignments as a combat engineer at Fort Bragg, NC, and in Germany; and as Deputy Commander of the New York District, Corps of Engineers. He is a registered Professional Engineer in Virginia.

Active in the Civil Engineering Division of ASEE, Steve has served as Chairman of the Computer Applications Committee and Chairman of the Teaching Methodology Committee. He has run sessions at the national conference for the past two years and participated in planning the ASEE Zone I Conference at West Point in Spring 1997. Since 1993 he has published and presented 13 papers at ASEE Annual Conferences. Steve has won three Best Paper Awards, and in 1997 he won the Dow Award from the Middle Atlantic Section.
ASEE CIVIL ENGINEERING DIVISION—ANNUAL BALLOT

April 1996

Please clearly mark your choice with an "X":

For Chair-Elect/Program Chair:  _______ Jim Nau
                                _______ Write-in: ______________________

For Secretary-Treasurer:  _______ Kamyar C. Mahboub
                          _______ Write-in: ______________________

For Director 1998-2001: _______ Stephen Ressler
                         _______ Write-in: ______________________

PLEASE MAIL THIS ORIGINAL BALLOT TO:

Colonel Thomas A. Lenox
Civil Engineering Division
Dept. of Civil & Mechanical Engineering
United States Military Academy
West Point, NY 10996-1792

PLEASE LEGIBLY SIGN THE BACK OF YOUR ENVELOPE.

YOUR BALLOT NEEDS TO BE RECEIVED BY MAY 22, 1998
## Program Summary

Civil Engineering Division, ASEE - 1998 Meeting: Seattle, Washington

<table>
<thead>
<tr>
<th>SESSION TIME</th>
<th>MONDAY, JUNE 29</th>
<th>TUESDAY, JUNE 30</th>
<th>WEDNESDAY, JULY 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 to 8:15 a.m.</td>
<td>Session 1115: Executive Board Meeting and Breakfast</td>
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<td>Session 3215: Impact of Info. Tech. on Engrg. Education</td>
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<tr>
<td>8:30 to 10:15 a.m.</td>
<td>Session 1115: (cont'd) Executive Board Meeting and Breakfast</td>
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<tr>
<td>10:30 to Noon</td>
<td></td>
<td>Main Plenary</td>
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<tr>
<td>12:30 to 2:00 p.m.</td>
<td>Session 1415: General Business Meeting and Luncheon</td>
<td>Session 2415: Planning Meeting and Luncheon</td>
<td>Session 3415: Chi Epsilon Luncheon (Speaker: Jim Poirot, Past President of ASCE)</td>
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<tr>
<td>2:30 to 4:15 p.m.</td>
<td>Focus on Exhibits</td>
<td>Session 2515: PE and FE Exams as Assessment Tools</td>
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<tr>
<td>4:30 to 6:00 p.m.</td>
<td>Session 1615: Case Studies on 1998 ABET Visits</td>
<td>Session 2615: Integrating Environmental Issues in Engineering</td>
<td>Session 3615: Innovative Teaching Methods &amp; Curriculum Development</td>
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<tr>
<td>Evening</td>
<td>Session 1915 (7:30 start) CE RAP Session at local university featuring new 28-min. IPP ethics video</td>
<td>Session 2815: Annual Social &amp; Dinner at Fisherman's Restaurant</td>
<td>Session 3805: ASEE Annual Awards banquet (reception starts at 6:30 p.m.)</td>
</tr>
</tbody>
</table>

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**ASEE Civil Engineering Division**

April 1998 Newsletter

**INSTITUTE FOR PROFESSIONAL PRACTICE**
13 Lanning Road
Verona, NJ 07044