

Division newsletter



American Society for Engineering Education

DIVISION: ENGINEERING LIBRARIES

EDITOR: Jim Kyed - Helen Citron

DATE: January 1985

FROM THE CHAIR:

On October 29-30, 1984, the ASEE Program and Division Chairs along with Society Officers meet in Nashville, TN to plan next year's conference. That conference, by the way, will be in Atlanta, GA, on June 16-20, 1985; Eric Bloch, formerly a Vice-President at IBM and now Director of NSF, will be the main plenary speaker.

Don Richardson, ELD Program Chair, Jim Dodd, Secretary/Treasurer and host school representative, and I had a good opportunity to discuss our Division plans and to meet and form planning relationships with a variety of Division representatives. You will see the result of that work in the enclosed revised program which Don and his session chairs will now be getting in final form.

Don and I had been hopeful of garnering a mini-plenary for the Division. However, our proposals meet with 4 other proposals of considerable strength within our own Professional Interest Council-IV pre-selection phase and so they was not supported. However, we were pleasantly surprised by the number of people who did show an interest in our topics and felt that we should try again next year. Knowing now how the selection process works and what is likely to be selected, we have every expectation that our Division can be successful next year should it chose to propose a mini-plenary. Here are the "winning" mini-plenaries:

- Let's abolish laboratories--computers are here!
- ERM Distinguished Lecturer Series: Dr. Fred Keller, founder of the personalized system of instruction (PSI)
- Engineering education in an age of international competitiveness
- Instruction in CAD and CAM: industry needs and University responses
- The evaluation of engineering faculty--are we using the right criteria?
- Broader issues in the use of computers in engineering education

During the meeting we also heard from Dick Ungrodt, current ASEE President. He urged that we attend the regional section meetings. He also reported that the Society is very concerned about recruiting new members and younger members. Membership has fallen from a high of approximately 13,000 in the late seventies to 9,300 this year; a demographic check shows that the average age of an ASEE member is 57. The President mentioned that ASEE is increasing its activity with Federal agencies and is going to play a broader role in education functions now that the American Association of Engineering Societies has agreed to drop its Education Committee in deference to ASEE.

Overall, the Fall Planning Session was a great opportunity to meet other Division officers and discuss joint programs and to meet with our own officers too. In future years it has been suggested that the meeting might be held on the site of the upcoming conference so that the facilities could be examined in advance.

It is an exciting experience to represent all of you to the Society and plan for ways that we can shape our organization to best meet our needs. Please, in order to help that effort along, make sure to return Jim Kyed's "Feedback Forum". We really do want to hear from all of you.

Plans Made for 1985 Conference Program at Nashville Meeting

Don Richardson, Program Chair, has submitted the following program and schedule for the 1985 Conference, to be held in Atlanta:

Sunday, June 16, 1985	Afternoon
Workshop on Patents, Standards, and Technical Reports for Engineers	
Monday June 17, 1985	Morning
Open Forum for ELD members	
Monday June 17, 1985	Afternoon
Microcomputers and Personal Information Gathering and Use	
Tuesday June 18, 1985	Morning
Faculty and the Library: Cooperative Programs in Library Instruction	
Tuesday June 18, 1985	Afternoon
Tour of the Georgia Tech Library	
Tuesday June 18, 1985	Afternoon
Annual Business Meeting	
Tuesday June 18, 1985	Evening
Annual ELD Dinner	
Wednesday June 19, 1985	Morning
ELD Executive Committee Meeting	
Wednesday June 19, 1985	Afternoon
Poster Session	

The deadline for the Conference Program is January 4. Exact times and additional details will appear in future issues of the Newsletter.

METRIC INFORMATION CENTER

PROPOSED FOR

ENGINEERING LIBRARIES

The Metric Coordination Committee of the ASEE serves as the Sector Committee on Engineering Education of the American National Metric Council. In their efforts to accelerate the movement toward metric, the Committee is proposing the establishment of metric information centers to provide engineering faculty with information that will encourage and assist them in utilization of SI in their classroom teaching. I suggested to them that I thought the logical location for such a center would be the engineering library. They agreed and asked me to pursue this possibility. So I would like to get your reaction to this idea.

Their intent is that the center of SI should include: materials to indicate that SI is not just another set of units, reference to the heritage of SI to demonstrate that SI is a product of the growth of the 20th Century technology that best meets the needs of our times and of the future, and materials on the rationale and background for this systemization of knowledge. A name that is being considered for these centers is: Metric Engineering and Technology Resource and Information Centers (METRIC).

I'm including some titles recommended by Professor Cornelius Wandmacher, University of Cincinnati, to be considered for inclusion. I plan to solicit and add more titles during the coming year. It seems to me that this is an area where ELD, working with the Metric Coordination Committee, can make an important contribution to the engineering profession. I would like to learn what level of interest exists for this project and how we might proceed.

Metric Information Centers (Continued)

1. What do you think of the idea of an SI center in your library?
2. Should this be a part of the reserve or reference collection? If not, where else might it be located?
3. Do you like the proposed name: Metric Engineering and Technology Resource and Information Center?
4. Should ELD publish an annotated bibliography on SI? Would you be willing to compile it?
5. Should the engineering libraries act as clearinghouses for assisting professors in locating SI textbooks?
6. Are there other types of materials that should be included in the centers?
7. Do you have any other comments?

Thank you for your help. Please mail your response to:

Harold N. Wiren
Engineering Library, FH-15
University of Washington
Seattle, WA 98165

Recommended Titles for Inclusion in a

Metric Information Center

1. ASEE SI Kit.

An effort was made to include publications of all major organizations involved at the time: ANMC, ANSI, ASTM, IEC, ISO, NBS. Future collections should include IEEE Standard 268 and ASTM Standard E380 also.

2. Netherlands Wall Chart.

Gives an exceptionally fine view of the comprehensive, coherent nature of SI as a "system". Was available from ANSI (Don Peyton) through ASEE. Current availability unknown.

3. "Going SI", ENGINEERING EDUCATION, April 1977, pp. 682-691.

Metriation feature issue; this is still the most comprehensive coverage in an ASEE publication. Includes nine articles and reference sources.

4. "The International Bureau of Weights and Measures, 1875-1975, (BIPM).

A centennial of measurement history and the work of BIPM; published on the occasion of the 100th Anniversary of the Treaty of the Meter, May 1975, 248 pp.

For information on availability refer to David T. Goldman, National Measurements Laboratory, National Bureau of Standards, Washington, DC 20234, Telephone: 301-201-3304.

This document was issued as: NBS Special Publication 420

5. "Units of Measurement" - ISO Standards Handbook 2.

Contains ISO 1000, ISO 31/0 thru 13, and ISO 2955: March 1979, 235 pp.; available thru American National Standards Institute (ANSI).

This handbook supersedes Item IV of original ASEE-SI Kit and is much more comprehensive.

6. "The MKS System of Giorgi As Adopted by the International Electrotechnical Commission (IEC) in June 1935", ENGINEERING EDUCATION, Vol. XXVII, No. 4, December 1936, pp. 290-307.

A report by Professor Arthur E. Kennelly to ASEE on the historical aspects of the actions of IEC. An excellent overview of the early development of SI. Gives an insight to the part played by Americans.

7. "Rational Electromagnetic Units", the original Giorgi Paper; a reprint and a commentary; ELECTRICAL WORLD AND ENGINEER, Vol. XL, No. 10, pp. 355 and 368-370, September 6, 1902.

This is a publication of the American Institute of Electrical Engineers, forerunner of IEEE.

Recommended Titles (Continued)

8. "Physical Units and Standards", Section 3, Handbook of Engineering Fundamentals, 3rd edition, 1975; Editor: Ovid Eshbach; Author: Ernst Weber, John Wiley & Sons.
9. Letter Symbols To Be Used In Electrical Technology", publication 27-1, International Electrotechnical Commission (IEC) 1971.
10. "Guidelines for Use of the Modernized Metric System", LC 1120, supersedes LC 1056, reprinted from December 1979 DIMENSION/NBS.
11. "Units", Theodore Wildi, Laval University; Volta, Inc. P. O. Box 425, Sillery, Quebec 6, Canada.
12. "Metric Units in Engineering - Going SI".

Industrial Press, New York, N.Y., May 1978, 300 pp.

Compiled by Professor Cornelius Wandmacher
University of Cincinnati

FIRST LITERATURE GUIDE COMPLETED

Kathy Jackson reports that the first in our new series of literature guides. "Computer Engineering" has been completed. It has been distributed to members who are working on the series, both for review, and for use as a model in preparing other titles. Kathy's subcommittee hopes to have six completed by June.

ELD MEMBERS ATTEND NEW ENGLAND SECTION ANNUAL MEETING

Jim Fries, Paige Gibbs and Ann Montgomery Smith attended the New England Fall Annual Meeting of the ASEE in Fredericton, New Brunswick on September 28-29, 1984. The Librarians' section topic was the PHOENIX online catalog that is up and running at UNB. The catalog is unusual because it included bibliographic information about both books and current journal literature available in the library. PHOENIX was inaugurated in 1981 following a six month design period. A prototype of the system, developed by two UNB Civil Engineering professors, has been in use at the UNB Engineering Library since 1967. The support given PHOENIX users by the Computer Service and the Library is impressive. An example is the planned addition of a menu-driven approach as an alternative choice to the command approach.

Everett Dunfield, the Engineering Librarian, gave a comprehensive description and history of the online catalog, as well as an opportunity to use it from terminals in the Engineering Library. It was splendid autumn weather for the meeting; foliage was in peak color in Fredericton, and all attendees had a wonderful visit to Atlantic Canada.

-Jim Fries
Dartmouth College

ELD SPONSORS PROGRAM AT PACIFIC SOUTHWEST SECTION ANNUAL MEETING

The Engineering Libraries Division of the American Society for Engineering Education has joined this year with the Technical Divisions to offer simultaneously a program of interest to librarians and engineers alike during the Annual Conference of the Pacific Southwest Section in Tempe.

This session was held in the new attractive Daniel E. Noble Science and Engineering Library on the Arizona State University campus. The program, which was very well attended, included topics such as planning a new engineering library, online information for engineers, the importance of patents in engineering work, end user database searching and information about the services provided by the publishers of Engineering Index. The session was concluded by a tour of the new building.

-Vladimir Borovansky
Arizona State University

FEEDBACK FROM ISSUE #1

Question: What experience have you had in offering a document delivery service to users of your library?

Responses:

Occasionally we use Dialorder if a patron is willing to pay. We have also used ISI's OATS service when free coupons were available from ISI. We also refer our patrons to other document suppliers, e.g. IHS, Global Engineering for materials not available at the Library.

-Vladimir Borovansky
Arizona State University

DIALOG printoffs have been the only official document delivery service offered at the SMU Library. The costs of document delivery services for both the students and the library are prohibitive. Although I occasionally use our NTIS deposit account (funded from student fees, it offers a supplement payment for items after the initial cost-10 dollars per item-is paid by the student). The wait of 6-8 weeks, sometimes to be notified that an item is unavailable, is too long for a fourteen week semester. Again, the RUSH charge costs too much. There is a dysfunction when the immediacy of the knowledge that an item exists is frustrated by the absurd length of time elapsed before the item can be placed in the hand of the user.

-Paige Gibbs
Southeastern Massachusetts
University

FEEDBACK (continued)

The Engineering Libraries at the University of Michigan offer a document delivery service via 20 hour/wk, Engineering College-supported messenger. Messenger service provides delivery/pick-up or photocopy/bill/deliver of any requested library materials from any campus library to any college departmental office. Requests are accepted by telephone and electronic mail. Many requests are initiated via the monthly New Booklist which suggests that the faculty member circle the item of interest, return the list, and journal table-of-contents with a similar circle/deliver program. Items not on the Libraries' shelves are put on hold or search and the requestor notified. Items not owned by the Libraries are searched and converted to interlibrary loans or purchased through deposit accounts. The entire university library system is now studying a document delivery service, probably fee-based but not cost-recovery, and perhaps tied to resource sharing programs with nearby institutions.

-Maurita Holland
University of Michigan

The OSUL Library Control System (LCS) permits remote paging and, if the requestor's address (in the I.D. files) is a campus address, automatic mailing through campus mail. The "mail" option automatically prints the "address label" by printing the I.D./address from the file. Journals cannot be mailed...photocopy of articles and mailing thereof is not provided.

-Mary Jo Arnold
Ohio State University

The Engineering Library at Penn State recently instituted a document delivery service for technical reports. To supplement our NTIS SRIM subscription, we are now ordering NTIS records "on demand" for students, faculty, and staff. Microfiche copies are purchased, and the reports become part of the collection when the patron is through with them. There is no charge to patrons for this service.

It is still too early to evaluate the program, but it has been well received. Information on Demand is our prime supplier of fiche, and in most cases the delivery turn-around time has been two weeks. However, they have been unable to fill 25% of our orders. In these cases, we are using C.W. Associates or NTIS as a backup.

-Tom Conkling
Pennsylvania State University

ASEE/ELD MEMBERSHIP DIRECTORY UPDATE
NOVEMBER 1984

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Cooley, William C.
President
Terraspace, Inc.
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Wheeler, C. Herbert
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Penn State Univ-Univ Pk
University Park, PA 16802

ELD MEMBERSHIP DIRECTORY

Attached is the addendum to the 1984 ASEE/ELD Membership Directory. The directory was mailed only to those members who indicated that they wished to receive future editions of the directory. If you did not receive the 1984 directory and would like to receive a copy of it as well as future directories and updates, please complete the form below and return to: Sharon Balius, Engineering-Transportation Library, 312 Undergraduate Library, University of Michigan, Ann Arbor, MI 48109-1185.

Sharon Balius
Membership Directory
Chair

I would like to be included in future mailings of the ASEE/ELD Membership Directory.

NAME _____

TITLE _____

INSTITUTION _____

ADDRESS _____

TELEPHONE _____

FEEDBACK FORM

For Issue #3: What experience have you had in space planning and changes in your library?

(continue on middle third of reverse side)

STAMP

TO:

James M. Kyed
Massachusetts Institute of Technology
Barker Engineering Library
Room 10-500
Cambridge, Massachusetts 02139