Engineering Libraries

Division Newsletter
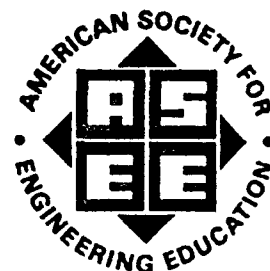
American Society for Engineering Education

September 1993

Message from the Chair

The Annual Conference of the Engineering Libraries Division is always a stimulus for renewed energy and resolve for attacking those many issues and problems that we all want to tackle once we get back to our campuses. I encourage you to share your experiences, questions and solutions, and innovations with your fellow engineering librarians throughout the year on ELDNET-L or in the ELD Newsletter.

What is your fail-safe method for getting a mechanical engineer to update his own outdated reading list? Or how do you diplomatically recommend to faculty that a scavenger hunt through the library materials is not the most effective way to teach lifelong library search skills? Or have you found a way to supplement your materials budget when your allocation doesn't quite meet the needs of your disciplines? These are just a few of the myriad of topics that could be on your agenda this year.

Don't forget that ASEE and more specifically ELD is YOUR organization. You will make it successful by YOUR participation and YOUR communication. If there is no other given in our group, it is that there are other engineering librarians who are addressing your same concerns, and their support and advice and cooperation is there for the asking. Don't hesitate--just participate!

If you have any issues that you think should be addressed by the entire membership, or that need action from ELD or ASEE, please jot them down and send me a message. Good luck and happy sailing as most of you begin a new year. May fortune have you pursued by multiple individuals with philanthropic intentions. Should that ship not be on your horizon, then may ingenuity rain down wildly on your head.

--Cecilia Mullen, Division Chair

Call for Nominations for ELD Officers

The ELD Nominating Committee would like to receive nominations for the offices of ELD Secretary/Treasurer and ELD Director. Please submit the names of possible nominees to any member of the committee by **December 1, 1993**. Committee members are: **Paige Gibbs** (508-999-8886, pgibbs@umassd.edu), **Karen Andrews** (310-825-3983, karen@cs.ucla.edu) and **Kate Herzog** (716-645-2946, unlkh@ubvm.cc.buffalo.edu). The names of the candidates will be published in the May issue of the ELD Newsletter. At the ELD business meeting at the ASEE Annual Conference in Edmonton in June, nominations will also be accepted from the floor.

--Paige Gibbs, Nominating Committee Chair

ELD Newsletter Schedule

Deadline for Submissions	Issue
November 12, 1993	December 1993
February 11, 1994	March 1994
April 15, 1994	May 1994

What's Inside this Issue...

Homer I. Bernhardt Distinguished Service Award

It is time again to think about taking action to give recognition to a deserving colleague in the engineering library community. I am sure many of you can identify someone who has made a strong contribution to the profession and who deserves the distinguished service award. The awards committee would love to have a heavy workload this year, so please think seriously about nominating a candidate for the award.

The award, which consists of a plaque, recognizes work that contributes to the advancement and development of excellence in engineering libraries. Any ASEE member may nominate a candidate. The candidate need not be a member of ASEE or ELD, but must agree to be present at the awards luncheon at the ASEE Annual Conference (except when an emergency intervenes).

Nominations for the Homer I. Bernhardt Distinguished Service Award should be sent no later than January 15, 1994, to the address below. A nomination form is included in this newsletter. Both a statement of nomination and a citation are required for consideration.

> Raymond Bohling
> ELD Awards Committee Chair
> Science and Engineering Library
> University of Minnesota
> 117 Pleasant St., S.E.
> Minneapolis, MN 55455
> Phone: 612-624-7899
> Fax: 612-625-5525
> E-mail: r-bohl@vm1.spcs.umn.edu

Program Planning for Edmonton

Seven ELD sessions are tentatively being planned for the Annual ASEE Conference to be held in Edmonton June on 26-29, 1994. In no particular order, they are:

Get Acquainted/Rap Session - Andy Stewart has agreed to organize and moderate this event. We are going to try doing it a bit differently this year. Rather than have everyone give highlights/issues of the last year, we will try to encourage everyone attending the conference to submit their year's summary electronically prior to the conference. Andy will then collate this information and distribute it to attendees. Using this same information, Andy will come up with "hot topics" for discussion at this first session. We anticipate that the session will still begin with everyone introducing themselves, but we're hoping that we can then quickly move on to some real discussion.

Poster Session - Tom Volkening has agreed to organize the poster session. I have forwarded to him suggestions for topics that came out of the Extended Executive Committee meeting in Illinois. Tom has posted a message to ELDNET-L (reprinted below) soliciting poster topics and participants. We are considering changing the time of the poster session to earlier in the week since there are fewer people around at the end of Wednesday, the final day of the conference.

Synthesis and the National Engineering Educational Delivery System (NEEDS) - John Saylor has agreed to organize this session, which will focus on NEEDS. I will be proposing this to ASEE as a Mini-Plenary.

Electronic Delivery of Journal Full Text: TULIP - I have not found anyone to organize this session yet, so I am doing it myself. Bob Schwarzwalder and John Saylor will report on how their campuses are delivering TULIP, and Karen Hunter from Elsevier has indicated that either she or one of her associates will come to Edmonton and be a presenter for this program.

Internet Update - Sheila Curl has agreed to organize a session which will focus on what's happening with the Internet. She would be happy to get suggestions on speakers, etc.

Just-In-Time: Document Delivery in Lieu of Collection Development - Don Richardson has agreed to organize this session. We are thinking it will look at different aspects of document delivery, e.g., from the supplier side, from the user side, from the librarian side. Don, too, would be happy to get your input on this program.

Statistical Measures of Engineering Library Services - Rather than make this a "program," Karen Andrews and I have agreed this should be an "open committee meeting" of the Accreditation and Standards Committee to discuss where the committee is at regarding the gathering of statistics and development of a checklist for evaluating services. Because this is an important topic and there is never enough time at the Annual Business

Meeting to devote enough attention to it, we thought it would be best to schedule it as a session.

And, of course, there will be the Annual Business Meeting and our Annual Banquet. In addition, I will be working with our Canadian contingent to insure that Edmonton will be fun!

Tentative ELD Schedule for Edmonton:

Mon 8:30-10:15am   Get Acquainted/Rap Session

Mon 4:15-6:00pm   Poster Session

Tue 8:30-10:15am   Just-In-Time: Document Delivery in Lieu of ...

Tue 2:30-4:00pm   TULIP

Tue 4:15-6:00pm   Annual Business Meeting

Tue 6:30pm-   ELD Dinner

Wed 7:00-8:15am   Breakfast Meeting, Extended Executive Committee

Wed 8:30-10:15am   Internet Update

Wed 10:30am-12pm   Synthesis NEEDS: Mini-Plenary

Wed 2:30-4:00pm   Accreditation and Standards Committee Open Meeting

Wed 4:15-6:00pm   Continuation of Extended Executive Committee Meeting

Please send any comments/reactions and/or specific suggestions regarding programs to the people who have volunteered to organize those sessions and to me.

--Steve Gass, Program Chair

Call for Posters

It is that time again, less then 11 months till the ASEE Conference in Edmonton, and we are looking for a few (usually about six) good people to present at our poster session. Here is your chance to participate in ELD and make sure that you are able to go to Edmonton. I will be working with **Steve Gass** to coordinate the poster session. Please send an abstract of your proposed topic to me by the end of October. Of course, if you can get

it in earlier, that would be even better. I look forward to receiving lots of good ideas for the poster session. You can reach me by phone, fax, or e-mail.

Tom Volkening
Phone: 517-336-1498
Fax: 517-353-9041
E-mail: 20676tcv@msu.edu

Reminder to Session Moderators

When contacting individuals to participate in a session, invite them to submit a paper for the proceedings as well. Individuals interested in contributing a paper to a particular session without actually making a presentation must first have the approval of the Program Chair. There is a $20/page charge for papers published in the proceedings. All papers submitted for publication are refereed. The review schedule is as follows:

November 1   Program Chair contacts authors of papers to be solicited.

November 1   Abstracts of unsolicited papers due to Program Chair

January 10   Authors send papers to Program Chair

January 15   Program Chair sends papers to Publications Committee Chair for review

February 15   Program Chair notifies authors whether their papers were accepted and of recommended revisions

March 10   Revised manuscripts due to Program Chair

March 15   Publications Committee Chair oversees review of final manuscript

April 15   Authors send camera ready papers to ASEE

Attention to this schedule makes it possible for papers to be reviewed in a timely and thoughtful manner, enhancing the quality of the proceedings.

--Tom Conkling, Publications Committee Chair

1993 ASEE Centennial: ELD in Review

The ASEE Centennial Conference theme "Shaping our World Century II" was an ideal description of the Engineering Libraries Division presentations. All of the sessions had packed attendance, including determined standees. Every session brought fresh insights, shared concerns, and affirmation that engineering librarians are in the vanguard of the Information Age. The topics were of interest not only to members of ELD, but to the engineering professors who also attended.

"Integrated Engineering Information - Can Vision Become Reality?," moderated by **John Saylor**, brought together William Butcher of the National Science Foundation, Dan Atkins, Dean of the University of Michigan School of Information and Library Studies, and David Penniman, President of the Council on Library Resources. They explored the visions and challenges of the current and emerging information technologies and the implications for information service and policy.

"Extended Services with Electronic Media," moderated by **Larry Clemens**, demonstrated how two librarians, **William Mischo** of the University of Illinois and **Jim Ottaviani** of the University of Michigan, are creatively using existing technology to introduce library users to their surroundings, develop search strategy, and become more confident in gaining information.

"Internet Resources for Engineers," moderated by **Glee Willis**, gave the audience an opportunity to meet one of the creators of Internet tools and see the system demonstrated. Different perspectives on the Internet, provided by a Net tool creator and a librarian, **Dottie Smith**, sparked numerous questions and favorable reactions.

A workshop, "Information Retrieval for Engineering Educators," sponsored by the division was well received. **Alan Gould** and **Larry Thompson** hosted the program, which gave engineering educators the opportunity to understand the differing information needs of the classroom and the workplace, and how to enable students to acquire the skills necessary to obtain the appropriate information.

The poster session, moderated by **Andy Stewart** and reported on in greater detail below, gave members of ELD an opportunity to look at techniques already in use and to query the presenters on tactics for modifying the approach to suit the questioner's situation.

--*Paige Gibbs*, Immediate Past Chair

ELD Poster Session A Hit

Tucked away in a sunny corner of Loomis Lab at the University of Urbana-Champaign, the ELD Poster Session brought ASEE 1993 to a successful close. Seven brave people brought (or sent) displays to share with ELD attendees in Urbana. Where quotation marks appear below, I have quoted from the presenter's abstract or handout. For more information about any of the items, contact the presenter.

Connie Wu, Rutgers University, "Popularizing and Utilizing Patent Resources" - "Historically, understanding and utilizing patent resources has always been a problem for the general public and inventors because of the complicated nature of patent systems and classifications. Since its designation as an official depository library for the U.S. Patents and Trademarks Office in 1989, the Library of Science and Medicine (LSM) at Rutgers has developed a series of activities to promote this unique collection and facilitate easy access to these resources. Various business, technology, and educational groups have been reached. All of these efforts have made these hidden treasures visible and attracted many more users in utilizing the patent resources." Connie's presentation outlined LSM's activities through a display of fact sheets, publicity, and related user guides.

Dena Thomas and **Donna Cromer**, University of New Mexico, "Breaking Down the Barriers to Patents Information" - "The vast amount of information contained in patents is well-documented. The majority of this information, up to 80% of it, is not published elsewhere. Despite these compelling facts, patents remain an under-used source of scientific and technical information. Although librarians may be aware of the potential in this type of material, they rarely refer patrons to the patent literature for questions not concerned with patentability." By analyzing previous online search requests and running those topics on the CASSIS/CD-ROM bibliographic patent database, Dena and Donna found either relevant or potentially relevant results for 59% of the online search questions. Their abstract concludes, "many of the successful questions can be categorized into four broad subjects: new technologies, new materials, biomedical engineering, and

environmental engineering. Knowing when to use the (patent) database will encourage reference librarians to use this resource more often and with more success."

Dottie Smith and Charles Lord, University of Washington, "Engineering Library Renovation: Meeting the Challenges of Creating Space" - Dottie brought architectural drawings and snapshots of their Engineering Library. I regret that any written description won't come close to doing them justice. In addition, as a handout, she brought an extensive annotated bibliography (Renovation, Computer Labs, and CD-ROM Networking) prepared by **Charles Lord**. Imagine, if you will, creating space by suspending a floor in a former atrium-like space. As the saying goes, "Seeing is believing."

Jean Poland, Purdue University, "Introduction to Engineering Textbooks: How They Present Libraries" - "Ten books that might be used as textbooks in first-year introduction to engineering courses were examined to learn how they incorporated library use and information literacy into the engineering process.... While several alluded to the information explosion, there were varying degrees of explanation of how libraries help in handling and finding information. CD-ROM, dial access to library catalogs and the Internet were not mentioned in any of the books.... While none talked about information literacy, several included sections about libraries and their importance to engineers." Jean's handout included a bibliography (annotated from a library perspective) of the 10 textbooks she examined.

Locke Morrisey, UC-Irvine, "Providing Funding Information to Faculty Electronically" - Locke began searching the Commerce Business Daily and Federal Register databases when another office on his campus scaled back their services. He provides customized searches of these funding opportunities to any faculty member interested. By spending about two hours per month, he has provided a valuable service and increased the library's visibility on campus.

Ross LaBaugh, University of Massachusetts, Dartmouth, "Library Research Skills for Engineering Students: Minimum Guidelines" - "The proposed guidelines are intended to promote student-oriented BI programs on college campuses. We hope the guidelines will suggest opportunities for faculty, librarians, and professional associations to collaborate in developing materials and programs that will help students learn to make effective use of library resources. We also hope that the proposed guidelines will be further developed by major professional associations." Ross has co-authored and published a set of guidelines for library instruction in the field of psychology and is now seeking feedback from engineering librarians on a project with respect to engineers. **Paige Gibbs** provided transportation for the exhibit itself and exhorted everyone to respond with comments and suggestions. If you promised in June to send comments "later" (like I did), but haven't yet, Ross would probably be delighted to hear from you.

Kate Herzog, SUNY-Buffalo, "Scientific and Technical Periodical Prices" - A bonus presentation. Kate had originally prepared this material for the Society of Scholarly Publishing and graciously offered to present it for ELD members. Her research isn't yet complete, but look for it to be published in the future.

Barbara Farah, SUNY-Geneseo, "Information-Seeking Behavior of Engineers" - An untimely family emergency prevented Barb from bringing her materials (based on her dissertation) to Urbana-Champaign. Nevertheless, I am including it here to make ELD members aware of her topic. It appears to be particularly relevant to the fundamental purposes of ALL engineering libraries. Barb was also anticipating a cooperative session with **Locke Morrisey** on funding availability. She has furnished a bibliography entitled "Grants and Grantsmanship."

To conclude, I must express my sincere thanks to all poster session participants. I appreciate the cooperation of everyone involved. Any errors of description or interpretation--commission or omission--are mine.

--Andy Stewart, Centennial Poster Session Coordinator

ENGINEERING LIBRARIES DIVISION
Annual Business Meeting Minutes
Tuesday, June 22, 1993
University of Illinois, Urbana-Champaign

I.   Paige Gibbs, Division Chair, called the meeting to order at 4:40pm. The minutes of the 1992 Annual Business Meeting were approved.

II.   **Annual Reports**

IIa.   A motion was passed approving the annual reports that were submitted and published in the May 1993 issue of the ELD Newsletter.

IIb.   **Paige Gibbs** thanked the Extended Executive Committee for its help in drafting a letter to Prism magazine in response to the editorial column in the February issue of Prism.

IIc.   ELD Treasurer **Steve Gass** passed out a revised Treasurer's Report, reflecting the latest financial information from ASEE Headquarters. Steve thanked **Jim Van Fleet**, Membership Directory Editor, **Mel DeSart**, Listserv Editor, and **Nancy Schiller**, Newsletter Editor, and their respective home institutions for keeping costs to a minimum.

IId.   **Karen Andrews** presented an oral progress report on the Accreditation and Standards Committee, which she chairs. A subcommittee, chaired by **Susan Herring**, has been formed to develop a new statistical questionnaire which will include an institutional profile. The group is still discussing the best options for collecting the data. Karen also stated that her group is trying to develop qualitative standards rather than quantitative standards. She will submit a written annual report for the September issue of the ELD Newsletter.

IIe.   On behalf of the Awards Committee **Paige Gibbs** announced that the ASEE Centennial awards would be awarded at the ELD banquet later that night.

IIf.   **Mel DeSart** reported that as of the current week the ELD Listserv had 213 subscribers.

IIg.   Membership Committee Chair **Glee Willis** brought up the issue of whether ELD should support lifetime members who have previously been ELDers but no longer were sending in dues for ELD. **Paige Gibbs** moved that ELD pay the $1 fee for these members. The motion was denied. It was suggested that more information from Headquarters might be useful in determining ELD's response to this situation. Glee will pursue this with HQ.

IIh.   **Jim Van Fleet** announced that he expects the same budget for next year's Membership Directory. He thanked **Mel DeSart** for his help.

IIi.   Nominating Committee Chair **Jay Waddell** thanked his fellow committee members, **Kate Herzog** and **Karen Andrews**, for their help this year. Jay then formally nominated **Robert Schwarzwalder** for Secretary/Treasurer and **Gretchen Sneff** for Director. They were approved unanimously and the Secretary/Treasurer was instructed to cast a single vote for the slate.

IIj.   Publications Committee Chair **Tom Conkling** announced that the Advanced Ceramics Literature Guide was now available, and two more, Telecommunications and Composites, were due soon. The revised Union List of Technical Reports, Standards, and Patents in Engineering Libraries had sold 77 copies, and the new Artificial Intelligence Literature Guide had sold 25 copies. It was suggested that ELD publications be available for sale at the Annual Meeting.

IIk.   **Beth Brin**, Co-Chair of the Subcommittee on Literature Guides, reported that the Subcommittee was revising the guidelines for the guides to make them clearer. She also announced that a subcommittee consisting of **Paige Gibbs**, **Nestor Osorio**, and **Edward Wladas** had been formed to investigate the possibility of electronic publications.

IIl.   **Nancy Schiller** reminded people to submit any revisions to their annual reports for the September issue of the newsletter.

IIm.   **Linda Musser** asked for input on the publication cycle for the Union List. How often should it be revised? Every two years was suggested as the right frequency.

III.   **Announcements**

IIIa.   **Andy Stewart** reminded people to fill out their session evaluation forms.

IIIb.   **Jim Van Fleet** asked people to send any changes/revisions in address, etc., for the next Membership Directory.

IIIc.   **Steve Gass** encouraged people to give him input for next year's program.

IIId.   **Andy Stewart** gave a brief update on Wednesday's Poster Session.

IV.   **Old Business**

IVa.   **Orion Pozo** asked for guidance on the exact status between ELD and the Duplicates Exchange program. It was moved to bring this issue to the Executive Committee.

V.   **New Business**

Va.   **Don Richardson** moved that the bylaws be revised as presented in the May issue of the ELD

Newsletter. The motion passed. **Paige Gibbs** thanked Don and **Dorothy Byers** for their work in revising the bylaws.

Vb.   **Glee Willis** suggested we make an effort to get the input of new members regarding this year's program. **Nancy Schiller** asked whether Headquarters provides us with the information gathered in the session evaluations which people complete.

Vc.   **Larry Clemens** suggested we strive for more visibility for ELD programs during the conference. It was pointed out that the Program index needs to be improved. Flyers and exhibit space were two ideas which were voiced.

Vd.   **Orion Pozo** raised some issues about the Duplicates Exchange. Should it still be moderated? Should it be expanded to ALA/SLA members?

Meeting Minutes Submitted August 9, 1993, by:

--*Steve Gass*, Outgoing Secretary/Treasurer

ELD Committee Reports

1992-93 Annual Report of the Accreditation and Standards Committee

A Subcommittee on Statistics was formed. **Susan Herring** and **Locke Morrisey** co-chair this group; **Deborah Kegel** is the additional member. The charge to the Subcommittee is appended. It was decided that statistics will be gathered from a questionnaire, to be distributed electronically whenever possible. Respondents will be asked to utilize institutional characteristics taken from published ASEE statistics.

The questionnaire previously used was revised and updated. Areas changed include: the section on automated functions was revised; the Interlibrary loan section was expanded to include questions about document delivery services, Ariel, faxing, expedited service; the part on collection budget will include ABET-type statistics for engineering and related areas for the past three years; under "Special Services:" revise section; add Internet/Gopher capabilities, access to other library catalogs, new book lists (paper and electronic), e-mail reference service; under "Index and Abstracts:" section will be enhanced with indication of electronic or CD-ROM versions and gateway access.

The Subcommittee recommends that Foxpro be used for the data input and analysis. Foxpro has a "run-time" version, so that the program can be distributed and used by individuals who do not have the actual Foxpro software on their machine. The Subcommittee will investigate whether Foxpro makes a Macintosh version as well as the DOS version.

The goal is to mail out surveys by 10/1/93 with a requested return date of 12/1/93. Back-up date is 1/1/94 with a return date of 3/1/94. The survey will be conducted biennially, i.e., every two years.

The Committee will try to have the report distributed as an ASEE publication in paper copy with a disk copy of the data included. The report will include an introductory summary and analysis. The Subcommittee will poll listserv members to determine what summary reports ought to be included in the final publication. The Statistics Subcommittee recommends that the cost of the report include adequate compensation to cover database development, maintenance, data input, software acquisition, and any other costs incurred.

The Committee as a whole, plus interested members, met during the conference to discuss a draft document of standards. Members present were: **Kate Herzog, Wendy Culotta, Christy Hightower, Karen Andrews, Jay Waddell, Susan Herring,** and **Locke Morrisey.** The draft documents were adaptations of standards for medical libraries and architecture libraries, with the wording changed to suit engineering disciplines. These standards are qualitative statements about the objectives to be met by librarians who manage engineering libraries or collections. Suggestions for changes were made and a reworded draft will be distributed electronically for comment.

A session on standards, to be moderated by **Karen Andrews,** will be held at the 1994 ASEE Conference. This will allow adequate discussion time by members. In addition to the standards, it is hoped that results from the statistical survey will be available for discussion.

The Chair wishes to thank the members of the Subcommittee on Statistics for their extensive efforts to revise and prepare the new questionnaire for distribution. The Chair also wishes to acknowledge the committee members and other attendees who contributed to the development of a draft statement of standards. A full report of the Standards Committee meeting will be forthcoming.

Appendix: Charge for Subcommittee on Statistics Evaluation

(1) Using "Academic Engineering Library Statistics, 1985-86" as a base document, evaluate which categories of information ought to be automated from the following categories included in the publication:

Library Characteristics; Functions Performed by Other Library; Automated Functions; Branches, Square Footage, Seating; Volumes in Collection, Volumes Added; Volumes Withdrawn, Volumes in Off-Site Storage; Serials Titles in Collection, Serials Titles Added Expenditures (Acquisitions); Personnel; Building Use and Service Hours; Circulation Periods: Undergrads, Grads, Faculty; Collection Use, Photocopies, and Interlibrary Loans; Information Services and Database Access; Special Services; Bibliographic Instruction; Service to Industry; Engineering Library Committee: Role and Composition; Indexes and Abstracts.

(2) Evaluate and select an appropriate software which will allow the membership to either receive a comparison of statistical data or generate such a comparison themselves. As part of the software evaluation, determine what capabilities the software should have. Ideally the software should be commercially and widely available, and should be able to run on a PC or Mac (ideally versions would exist for both.)

(3) After the software is chosen, determine the structure for data, which has impact on data gathering and input.

(4) Make recommendations on how to distribute the statistical data that people will request. Should the Subcommittee write one or several generic programs to do data comparisons that anyone could adapt? Should the Subcommittee have trained members who will rotate the job of generating custom software on demand for each data comparison request?

(5) Make recommendations on how and when to do the next data survey, and how to get the data input. Your analysis should include an evaluation of the possibilities of utilizing any survey instruments (e.g., the ABET questionnaire) or published information that already exists.

--*Karen Andrews*, Accreditation/Standards Committee Chair

Update to the 1992-93 Annual Report of the Subcommittee on Literature Guides

A subcommittee meeting was held Monday, June 19, 1993, at the ASEE Annual Conference in Champaign-Urbana. We will be revising the guidelines for compilers and contacting our current compilers to present the new guidelines (compilers who are already working on their guides can still work under the old guidelines, if they choose). A list of topics which need compilers will be listed in the newsletter and on ELDNET-L. If you know of someone who would be interested in compiling one of these guides, please encourage them to volunteer! Several guides are in need of updating, and **Godlind Johnson** and **Beth Brin** will be contacting the original compilers to see if they are interested in doing the update. A subgroup was formed--**Paige Gibbs, Edward Wladas**, and **Nestor Osorio**--to look into the issues and concerns of publishing the guides in electronic format including cost recovery, copyright, platform, package and delivery.

--*Beth Brin and Godlind Johnson*, Literature Guides Subcommittee Co-Chairs

Quarterly Report of the Publications Committee

Three new literature guides have been published in the last several months and are now available from ASEE, 11 Dupont Circle, Suite 200, Washington, DC, 20036-1207. They are:

"Selective Guide to Literature on Advanced Ceramics"
　　　Godlind Johnson
　　　ASEE, 1993.
　　　ISBN 0-87823-144-7
　　　$12 (members); $13.80 (non-members)

"Selective Guide to Literature on Telecommunications"
　　　Jill H. Powell
　　　ASEE, 1993.
　　　ISBN 0-87823-146-3
　　　$12 (members); $13.80 (non-members)

"Selective Guide to Literature on Composites"
　　　Steven Gass
　　　ASEE, 1993.
　　　ISBN 0-87823-149-8
　　　$12 (members); $13.80 (non-members)

--*Tom Conkling*, Publications Committee Chair

Quarterly Report
of the Membership Committee

As you all know, new subscribers to ELDNET-L are our primary targets for recruitment to ELD these days. Just since the conference in Urbana, 32 recruitment packets have been sent out (as of 8/16/93)! Also, a VERY heavy emphasis on Canadian recruitments will be made this year by Liz Watson, the Membership Committee's Liaison to Canada, who will be making visits to several of the Canadian institutions (and especially the University of Edmonton!), to promote ELD membership to engineering librarians there. Liz will also be scouting out Edmonton for appropriate gathering spots for early arrivers and leftovers, as well as softball players and spectators! Any questions regarding membership or membership directory matters should be addressed either to **Glee Willis** (willis@unssun.scs.unr.edu) or **Jim Van Fleet** (vanfleet@jade.bucknell.edu).

--Glee Willis, Membership Committee Chair

National Engineering Education Delivery System Update

Synthesis: A National Engineering Education Coalition was officially born on September 30, 1990, when the NSF funded its first two Engineering Education Coalitions. A cornerstone of the project is the National Engineering Education Delivery System (NEEDS). NEEDS is made up of: (a) a distributed multimedia database of curricular materials consisting of data elements ranging from simple text to full motion video, connected to (b) courseware development studios for faculty; and (c) high-technology classrooms connected through high speed networks, both on campus and internationally through the Internet.

The Executive Summary of the annual report for the 2nd year of the project is available via gopher at (gopher.englib.cornell.edu port 70) in the /Synthesis Coalition/ Annual Report folder. Another good summary of the architecture of the NEEDS database through the first 2 1/2 years is on the same gopher in the /Synthesis Coalition/ Standards Study Report folder. The section on the NEEDS database states:

"The NEEDS Standards Advisory Group unanimously recommends that a prototype NEEDS national database system be implemented according to the following guidelines:

(1) The NEEDS database must appear to users as a unified library of courseware modules and data elements for building courseware. The NEEDS database will actually consist of specialized public and private databases distributed around the world; even so, it must appear to be a simple, unified system.

(2) The NEEDS database will follow the Library model in which a catalog is used to find an object (courseware module, graphic images, etc.) of interest. The user will then enter a simple command to start an immediate electronic (or physical, in the case of video-cassettes or CD/ROM) transfer of the object from its actual storage location to a destination specified by the user. Access to the catalog will be free and open to all, although acquisition of some objects listed in the catalog may be controlled by particular rights holders. Imposing such controls will be the responsibility of the rights holders.

(3) The NEEDS database must be available to users with minimal hardware, software, and expertise. The first version must have a simple, text-oriented interface that requires only common hardware and public domain or common communication software so we need not distribute or maintain software nor train people in its use. Note that we are talking about catalog access. A more elaborate base of hardware and software will be needed to browse the material. As graphics-oriented catalog interfaces for browsing visual images (probably built on X-Windows) become available, they will be introduced in a timely fashion.

(4) The NEEDS database will be built on a base of communication and networking standards such as TCP/IP used over the Internet (evolving to the NREN). Use will be made of open standards communication software such as Telnet and FTP whenever it is practical in order to minimize programming and maintenance burdens. Close attention will be paid to centralizing and minimizing maintenance needs as a general strategy.

(5) Library cataloging standards and practices will be used from the outset. This strategy will insure transportability between diverse catalog systems and greatly simplify the transition to multimedia-based catalog systems such as VTLS when they become available. USMARC rules for cataloging computer data files have been under development for many years; it is only prudent to take advantage of that accumulated expertise by adhering to those rules and enlisting the support of library cataloging experts in our endeavor.

The NEEDS database group expects to participate in the future development of these standards and practices.

(6) The NEEDS database should be integrated with an existing university on-line catalog or catalogs to make use of the robust, powerful search engines associated with them. This strategy looks forward to a future in which library professionals consider the NEEDS database to be an important part of their mission to connect the public with high quality information. The long term viability of the NEEDS database will surely be enhanced if a major university library assumes part of the responsibility for it. Integration into an existing on-line catalog also ensures that most users will already be familiar with how to use the catalog; the few who need help can obtain it from library user support personnel and documentation, thereby relieving the Coalition of a significant training and user support responsibility."

Currently, the meta-database for NEEDS is located at the Parks Library of Iowa State University. A professional cataloger funded by Synthesis and working at Cornell is sent "pre-MARC records" describing objects that Synthesis faculty and their associates have produced. The cataloger transforms the "pre-MARC" record into a MARC record in the ISU OPAC. The record also has a field with an ip address of one of five Coalition servers around the country that have "objects" on them, along with the path to get to that "object." Copies of the pre-MARC records are also on the gopher server mentioned above if anyone would like to see them in the "raw." Since the database is open to anyone, there is telnet access to it. Telnet to needs.iastate.edu and login as "needs." Currently, all 40 or so MARC records are in a test portion of ISU's OPAC. You'll eventually come to:

```
+ + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + +
        Welcome to SCHOLAR (Iowa State University Library)   CD10
                    DATABASE SELECTION MENU

To select a database, type one of the following labels and press <ENTER>.
You may also select ICAT (the ISU Library Catalog) by simple pressing
<ENTER>.

  Type:    To access the following:

  ICAT     ISU Library Catalog
           (Books, periodicals, etc. held by ISU Library)

  INDEX    Indexes to periodical articles
           (Citations to articles in periodicals that may or may not be held by ISU
           Library)
-------------------------------- + Page 1 of 3 --------------------------------
  HELp       Select a database label from above    <F8>  FORward
             NEWs (Library System News)

Database Selection:
+ + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + +
```

Type: **ICAT**. And, if you're on a Macintosh, search for a = tolomeo:

```
+ + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + +
Search Request: A = TOLOMEO              ISU Library Catalog
Search Results: 2 Entries Found             Author Index
-----------------------------------------------------------------------------
        TOLOMEO MIKE
  1       BLACKOUT A CASE STUDY  <----> datafile
  2       CIRCUIT SIMULATOR  <----> datafile
+ + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + +
```

Select one of these two items and you get the brief view of the record:

```
+ + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + +
Search Request: A = TOLOMEO                    ISU Library Catalog
COMPUTER FILE - Record 1 of 2 Entries Found         Brief View
-----------------------------------------------------------------------------
Title:              Blackout   A Case Study

Author:             Tolomeo, Mike

Edition:            Version 1.2.6,  NEEDS-03-02-0001

Publisher:          655 Engineering & Theory Center, Ithaca, NY 14853,
                    Engineering Multimedia Research Laboratory, 1992
-----------------------------------------------------------------------------
LOCATION:              CALL NUMBER:        STATUS:
NEEDS System          Use GET command to   Circ. info not
(Non-Circulating)     receive file         available

+ + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + +
```

From here you can also look at the LONg view of the record to see an abstract and more information about the file. At this point, you have the option to download (i.e., set up an ftp transfer) this file to your machine. Type the word: **GET**. This will set up an ftp session between the remote host where the full file actually resides and your machine. (You have actually previously telnet into the ISU OPAC via another server that is explicitly listening for this command - **GET**.)

```
+ + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + +
The file will be sent by "FTP"              (file transfer software);
to the user named "anonymous"               (destination user name);
on computer:
"DIRECTOR.ENGLIB.CORNELL.EDU"               (destination computer name);
as a file named "Blackout.bin"              (destination file name).

Would you like to change any of these parameters (y/N) ?
+ + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + +
```

The security negotiations are then made between the remote host and the user. The meta-database or catalog does not have to keep track of security restrictions if there are any in place.

There is a klugy way of seeing all the NEEDS records in the ISU OPAC by searching:

k = needs 01

or k = needs 02... up through 05.

```
+ + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + +
Search Request: K = NEEDS 01              ISU Library Catalog
Search Results: 8 Entries Found           Keyword Index
----------------------------------------------------------------------------
  DATE   TITLE:                                  AUTHOR:
1 1993   NEEDS SERVER <datafile>                 Chen Yue
2 1993   Rules in Design <datafile>              Seif, Mohamed A
3 1993   Slider-crank <datafile>                 Gillette, Jason C
4        Aedificium <datafile>                   Valenzuela, M L
5        Bipolar junction transistors <datafile> Woody, Steve
6        Engineering Problem Solving and <datafile> Genalo, Lawrence
7        Notch in Concrete, Stress distr <datafile> Anonymous
8        Rene Descartes, a Short Biograp <datafile> Hiemcke Christoph
+ + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + +
```

What this does is let you see the records for the full items on each of the five remote ftp servers.

Remember that at this point this is a demonstration and proof-of-concept project. There are future plans for: (1) migrating all the records into a separate file so that one does NOT have to search through all of ISU's library holdings--this should be done within a month; (2) upgrading the interface--there are research projects going on within the Coalition to improve the baseline VT100 telnet interface that now exists; (3) we are working on a potential collaborative project with WAIS Inc. and others to improve the client and server access to the materials; (4) and more....

Dave Martin of Iowa State, Co-Principal Investigator of the Standards Study Project and the principal designer of what currently exists, and/or I will be giving a full update at this Fall's CNI meeting.

Please feel free to try this out. I am more than happy to help anyone who has problems or questions. I can be reached by phone at (607) 255-4134 or on e-mail at jms1@cornell.edu.

--John Saylor, ELD Member and Co-Principal Investigator of the NEEDS Standards Study Project

New ELD Member Bios

Submitted by **Larry Clemens**, Membership Committee Member, and **Nancy Schiller**, Newsletter Editor

One of the new members that spoke at the ASEE Annual Conference this past June in Urbana-Champaign was **Dorothy (Dottie) Smith** from the University of Washington. If you missed the session, Dottie did a great job in discussing Internet resources of interest to engineers. Dottie is the Assistant Head of the Engineering Library, which she considers an exciting job. Her duties include exploring the Internet, online searching, and collection development. Like many of us, she has a varied background, working as a cataloging technician at the University of New Mexico and in the Rare Book Room. Dottie earned her MLS at the University of Maryland. Her undergraduate degree is in language studies (Portuguese and Spanish). Dottie's husband, Burton, is a computer scientist by profession and designs supercomputers. They live in Seattle and have two children. Dottie's hobbies include reading mysteries and singing in the choir.

Jim Ottaviani, who also presented at the ASEE Annual Conference in June, has a BS and an MS in nuclear engineering from the University of Illinois, Urbana-Champaign, and the University of Michigan, Ann Arbor, respectively. He attended library school at Drexel in Philadelphia, but received his library degree from the University of Michigan. Jim has worked for electric utilities as both an employee and a consultant, in both the U.S. and Japan on government research projects, and on various odd jobs in between. He has had his current position as engineering librarian at the University of Michigan--or half of it, anyway--in some capacity for three years. The other half of his time directly supports a research group in mechanical engineering working on improving auto body fit and finish. Jim has published articles in <u>Macintoshed Libraries</u>, <u>Annals of Nuclear Energy</u>, and the <u>Journal of Irreproducible Results</u>. He has done research on computer interface design and relevance--two areas that continue to interest him.

After graduating from Northwestern University with a BS in environmental engineering, **Karen Grieg** worked as an environmental engineer for over 10 years, first at the Environmental Protection Agency in Chicago, and then for several consulting firms in California. Although her training is in water/wastewater treatment, her experience has been primarily in hazardous waste site investigations and clean-ups. In 1989, Karen started library school at the UC Berkeley. While in library school, Karen worked in three different libraries: the Museum of Northern Arizona Library in Flagstaff (Karen is a Grand Canyon fanatic), Failure Analysis Associates library in Menlo Park, CA, and the Bancroft Library at UC Berkeley. After obtaining her MLIS, Karen was offered her current position in the Engineering Library at Stanford University, where she has been since 1991. At Stanford, she is in charge of reference services, document delivery, and

shares collection development responsibilities with her boss, **Steve Gass**. In addition, Karen is currently serving as convener for a Task Group that is investigating and making recommendations for how Stanford will incorporate electronic journals into its collections.

People & Places

Vladimir Borovansky, Arizona State University, **Joe Boykin**, Dean of Libraries at Clemson, and **Julia Gelfand**, UC-Irvine, attended the 15th biennial meeting of the International Association of Technological University Libraries (IATUL) on July 19-22, 1993, at the Technological University of Hamburg-Harburg, in Hamburg, Germany. Joe Boykin and Vladimir subsequently took a tour of German university libraries in Dortmund, Muenster, Osnabrueck, Oldenburg, and Braunschweig organized by the German Library Association. Julia submitted the following report on the IATUL conference:

Nearly 70 librarians from Western, Central and Eastern Europe, the UK, US, Australia, and Asia joined exhibitors in discussing the themes of the conference: Library Buildings and Architecture, Scholarly Publishing, Library Management, and Library Networks and Systems. Until recently, IATUL was composed of directors of technological university libraries, but is encouraging membership from all levels of library staff in science and technologically rich collections and services. The meetings take place annually, with a large biennial conference alternated by a less formal series of seminars. The schedule for the next several meetings is: July 4-8, 1994, in Sheffield, England; 1995 - University of Twente, Netherlands; 1996 - University of California, Irvine, and Beckman Center of the National Academy of Sciences; and 1997 - Trondheim, Norway. Membership is open to all librarians at institutions which offer courses in engineering or technology to doctoral level. For membership and general information, contact **Julia Gelfand**, Applied Sciences Librarian, Main Library, UC Irvine, CA 92713; telephone: 714-856-4971; fax: 714-856-5740; e-mail: jgelfand@uci.edu.

Tom Conkling, Pennsylvania State University, and Bonnie Osif have had the article "Tapping On-line Information Resources in the Nuclear Industry" published in <u>Nuclear Plant Journal</u> 11(1), Jan.-Feb. 1993, pp. 70, 72-73. The article presents an introductory survey of online resources for nuclear engineers and managers.

Wichita State University Aviation and Engineering Librarian **Tom De Petro** is mentoring a volunteer student intern, Kevin Drees, who has an undergraduate degree in mechanical engineering and who is currently enrolled in Emporia State University's MLS program. Drees is preparing a bibliography/finding guide to library reference sources on materials including composites in support of the courses and assignments on the topic in the mechanical engineering department.

Orion Pozo, North Carolina State University, received honorable mention for an innovative application of the DIALOG RANK command and won $50 of online search time in the ISI databases using the RANK command to rank journals by the number of articles from a particular institution that cited them. The results of the contest will be announced in an upcoming issue of the CHRONOLOG.

Bob Schwarzwalder sends us the following news from the University of Michigan:

The University of Michigan brought up the image-based TULIP file this June. This file covers materials science journals published by Elsevier and Pergamon and includes citations and 300 dpi images, cover-to-cover, of these titles. Michigan is hosting the TULIP file on the Library's NOTIS system (as an MDAS file, allowing users to request offline laser prints) and on the College of Engineering's CAEN network (which allows users to view the images on-screen). Initial results have been very successful.

Library representatives have been meeting with architectural teams from Albert Kahn Associates, Inc., this summer to complete the design of the new Engineering Library at the University of Michigan. Current plans envision a united Engineering/Art and Architecture Library with a heavy emphasis upon electronic information resources. Plans are to break ground on the new North Campus building late this fall, with occupation estimated by the summer of 1996.

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