Engineering Libraries Division Newsletter

March 2006

Message from the Chair

Jill Powell

ELD is a division of the American Society for Engineering Education. Its mission is "to promote and strengthen the role of the library as an integral part of engineering education."

http://eld.lib.ucdavis.edu/

The Chicago conference is just 3 months away. Kate Thomes and the planning committee have a wonderful program planned, which is detailed on pages 2-4 of this newsletter. After reading the session descriptions you won't want to miss them! Topics include low-cost journal publishing, mastering the craft of engineering librarianship, new technologies and new tools, assessment of information literacy programs, and faculty/librarian collaborations. There are 19 poster presentations on many topics, such as RefWorks, dissertations, critical thinking, active learning, Google Scholar, coaching, motivation, and much more.

Do you think you know everything about these topics already? Think again. At every ASEE conference I manage to learn something new. The best ideas for teaching in my classes have come from other ELD colleagues. It could also be something small, or those intangibles, like gaining increased confidence and assertiveness. Sometimes it is the little things that wind up mattering quite a bit to our patrons, like installing a wall clock, repainting the walls, or improving signage. Here's a business example of the importance of paying attention to details:

> One customer went to the same gasoline station every week not because of price, but because they offered fresh windshield wiper fluid and a clean squeegee for customer use. *http://www.landingthedeal.com/2006/02/are_you_focused_on_what_your_c.html*

Here are my four top reasons you should attend the conference:

- **Superb networking.** Unprecedented opportunities for you to meet, discuss and debate with your peers. ELDers are friendly, willing to share problems, solutions, and give advice
- **Everything is relevant.** All the technical sessions and poster sessions will be on topics tailored to engineering librarianship and hence of potential use to you in your work. How many other conferences do that?
- **Great learning and sharing opportunities.** You may learn big ideas from this conference or you may learn little things, but sometimes the little details are what matters most to customers. Pay attention to details. Little things can set you apart from the competition.
- **Great social activities** – the networking doesn't stop at the technical sessions. Social activities, such as before and after the conference, ASEE picnic, special interest group meeting, welcome reception, annual banquet, and business meetings provide opportunities to share and learn.

Before the conference be sure to fill out the web form at *http://gemini.lib.purdue.edu/ELDgas* indicating your name, institution, recent activities, and topics of interest. Amy Van Epps has created this form as more automated way of organizing this information. Aleteia Greenwood will be the moderator for the Get Acquainted/Special Interest Group session and define discussion topics based on your input. I look forward to seeing you all in Chicago!

Jill Powell
ELD Division Chair
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Conference Program Update

Greetings from the Operations Deck of ELD Conference Planning Central

There is a lot to look forward to at the ASEE Annual Conference & Exposition in Chicago this summer. Your colleagues in ELD from around the country have been working hard on planning and organizing the many aspects of our program. More than 40 ELD members are contributing their time and energy this year to share information on issues in Engineering Librarianship. We will also welcome 3 outside speakers to bring us fresh perspectives on key issues. We are very appreciative of the continuing support of our generous sponsors who provide food, drink, and the means to make many of the following activities possible. In addition to the sponsors mentioned in session descriptions below, we would specifically like to thank Inspec and CSA for their support of our technical sessions. So, mark your calendars and make your travel plans to be in Chicago from June 18th through June 21st 2006.

Here's some of what you can anticipate:

Receptions/Food/Socializing!

The Society Wide Picnic will kick off at Chicago's Navy Pier with a historical theme related to the Roaring 20's. It's great that we'll all get to find the Navy Pier early in our Chicago stay because that's where you'll need to be on Tuesday the 20th for the ELD Annual Banquet.

Carol Brach, 1st Year Director, has arranged a real treat for us this year. The ELD Annual Banquet will be held aboard a cruise ship out on Lake Michigan! Relax with cocktails from 6-7 pm while boarding the Spirit of Chicago at Navy Pier. Enjoy a classic dinner buffet with assorted beverages and premium open bar on our private deck while cruising and taking in the sights of Chicago from the lake. Sailing time is 7-10 pm. This event is complimentary for ELD members, and $100.00 for guests. Everyone must be registered separately with the moderator, and the ship will sail promptly at 7 pm. Watch for registration details in the coming weeks. We thank Elsevier for sponsoring the ELD Annual Banquet again this year!

Liz Mengel, 2nd Year Director, and Amy Van Epps, Membership Chair, are organizing the Welcome Reception, which is an opportunity for new and established ELD members to meet and talk in a relaxed environment with food and drink. Watch for registration details for this event in the coming weeks. IEEE will provide dinner of Chicago style deep-dish pizza at this Monday, June 19th evening event. Thanks IEEE!

Informative Technical Sessions!

Kicking off our Monday morning will be the ELD Special Interest Group Meeting at 10:30. Aleteia Greenwood is organizing this session that will provide ELD members the opportunity to get acquainted with colleagues and discuss issues affecting academic engineering libraries and librarians. Our thanks to Knovel for providing a quick portable lunch for us at this session so we can fuel up before the first technical session of the afternoon.

The Technical Session line up for the conference includes:

1. Taking Back What is Ours:
Liz Mengel, Moderator

Join Charles Steele, professor emeritus of mechanical engineering at Stanford University, as he explains what led nearly all the members of the editorial board of a commercially published structures journal costing over $7000 per year to leave that journal and start their own low-cost alternative. The new journal, published by a not-for-profit publishing organization, costs $500 per year and allows authors to retain far more rights (such as their copyright) than is allowed by most commercial publishers. A panel made up of librarians and publisher representatives will react/respond to Prof. Steele's talk.

2. Engineering Librarianship 101: Mastering the Craft
Karen Andrews, Moderator - Panel Discussion

The ELD group is a cohort of experienced and new-to-the-discipline engineering librarians. Come hear tips of the trade from those in the know. Learn how to smoothly make progress and deal with challenges common and unique to engineering librarianship. From favorite reference tools or techniques for researching difficult questions, to communication with faculty, capturing the interest of students, maintaining good relations with peers and library staff, managing the collection, getting a fair share of the budget and career advancement opportunities, this session will offer pointers as well as a chance to ask questions and see how others do it.

- Bob Schwarzwalder, Strategies for Success in Engineering Librarianship
- Anita Colby, Mentoring the Mid-Career Engineering Librarian
- Deborah Kegel. Everything Old is New Again: Traditional Services in the Digital Age

3. Staying Relevant to Our Users: How New Technologies are Redefining the Role of the (Engineering) Librarian
Darcy Duke, Moderator

New technologies and new tools are changing the face of what information professionals do and perhaps even redefining what it means to be a librarian. This issue is particularly relevant to engineering and science librarians since our users tend to be early adopters of new technologies, and often expect us to support these technologies and/or incorporate them into our services. In this session, the speakers will provide specific examples of new roles for engineering librarians such as providing GIS support and developing innovative web services, as well as discuss the broader context of how technology is (or isn't) changing our profession.

Conference Program Update (cont'd)

Following the presentations, the session will be opened up into a discussion with the attendees.

- Anne Graham, GIS in the Realm of Engineering and Science Librarianship
- Amy Van Epps, A Systems Approach to Designing a Customized Information Delivery System
- Michael Stephens – guest speaker, Special Projects Librarian, St. Joseph County Public Library, South Bend, IN.

4. Assessment of Information Literacy Programs for Engineers
Linda Musser, Moderator

Assessment is an intrinsic part of the accreditation process yet obtaining useful assessment data can be a challenge. How well do we assess the efficacy of engineering information literacy programs, particularly as they relate to the criteria outlined by the Accreditation Board for Engineering and Technology? In this session, speakers will give an overview of efforts to develop effective and efficient ways to improve measures of students' information literacy skills, and share examples of how assessment has been incorporated into information literacy programs through faculty/librarian partnerships.

- Kevin Drees, Aiding and ABETing: Assessment of Information Literacy in the Context of ABET 2000 Criteria
- Anne Parker and Norma Godavari, Information Literacy and the Art of Doing Research within the Context of an Engineering Technical Communication Class
- Judith Collins, TAC of ABET Criterion 2, Faculty/Librarian Partnerships, and Information Literacy: Results of a Big 12 Inter-Institutional Workshop

5. Forum on Collaborative Information Literacy Programs
Angie Locknar, Moderator

Increasingly engineering faculty are called on to teach students about the social and ethical responsibilities of engineers, as well as a host of skills related to the use of information. Librarians can be key partners in developing and delivering such training. Brief presentations in this session describe a range of examples of faculty/librarian collaborations on information literacy training. Discussion following the presentations will focus on identifying key attributes of successful programs.

- Lisa Bullard & Honora Nerz, The Literate Engineer: Infusing Info Lit Skills throughout an Engineering Curriculum
- Christine Drew, Integrating Info Lit Concepts into an Upper level Biomedical Engineering Design Course

- Lawrence Schmidt, Info Lit and Learning Outcome Analysis of Freshman Engineering Course
- Diana Wheeler, Engineering Professional Development 151: an Extended Engagement
- Scott Warren, Undergraduate Instruction and the Scholarly Publishing Crisis: Shaping Discussion with Future Scholars

6. Poster Session
Nancy Linden, Moderator

For a complete list of poster sessions, see page 4.

Getting Down to Business:
Annual Business Meeting
Please plan to attend the ELD Annual Business Meeting. Morgan & Claypool will provide breakfast to sustain ELD members during this important meeting, which is open to ALL ELD attendees of the conference. Jill Powell, ELD Chair, will lead the meeting which provides an opportunity for members to come together to discuss issues relating to the workings of the division, as well as needs, ideas, and plans for the future. All ELD members at the conference are encouraged to attend because it is here that the Division Awards will be presented. Thanks to M&C for the breakfast!

Committee Meetings
Time and space will be provided on Tuesday 20th for ELD Committees to meet and discuss their work. Committee members report on progress, work together on current initiatives, and plan objectives for the coming year. This could be a good time for newcomers or those looking for a new challenge to talk with committee members about their work.

Extracurricular Fun!
As always, for early birds and leftovers Mel DeSart identifies, announces and facilitates participation in fun adventures in our host city. Be sure to watch for details on the CUEBALLS line up in the coming months!

Chicago! Chicago!
My thanks to everyone who has provided ideas, assistance, and support to me over the past months. It is amazing and exciting to see all the various aspects of the ELD Program come together for the ASEE Annual Conference & Exposition. ELD is a great group of people, loaded with hard workers and good thinkers. Whether you come to the conference for the technical sessions, the networking, or just the change of pace from daily activities, I hope you'll be able to join us for the 2006 ASEE/ELD program. It promises to be memorable!

Kate Thomes
ELD Program Chair and Chair-Elect
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Conference Program Update (cont'd)

ELD Poster Session:

Nancy Linden is the moderator for this session with 19 poster presentations! This year's ELD Poster Session will be held at a new time, Wednesday, June 21st at 8:30 am. So grab your coffee and head to the Exposition floor for what's shaping up to be a lively and informative morning of presentations on a broad range of issues and ideas. Look for the following posters:

- Susan Boyd, Future City: More than a Competition – it grows into a campus collaboration project!
- John Napp, PE Exam Scores and Info Lit Skills – Is there a correlation?
- Amy Kindschi, Managing Information Using RefWorks: Beyond the "Wow" factor
- Mysore Narayanan, Attributes, Characteristics and Codes of Conduct of a Critical Thinker
- Linda Musser, Use of Color in Dissertations and Theses
- Tom Volkening, The Spartan Engineer: a unique information resource for the MSU College of Engineering
- Daureen Nesdill, The Western Waters Digital Library: a New Resource for Water management, policy and scholarship
- Megan Sapp, An Outreach Experiment: Partnership with Academic Student Organizations to Provide Reference Service

- Lisa Dunn & Patricia Anderson, When Engineering Students get what they Want: Unmediated borrowing in an engineering university library and reflections on collection development
- Nestor Osorio, Women in Engineering Programs: an analysis of the Published Literature
- Bruce Reid, Coaching Styles: How they help manage and motivate librarians and their staff more effectively
- Sheila Young, Literature Resources for bioinformatics
- Eric Resnis, 1st Year Engineering Students Invading the Library: Integrating Outreach, collaboration, and Info Lit
- Paula Storm, Google Scholar, How useful is it in finding Scholarly info in the Sciences and Engineering?
- Scott Warren, Using Circulation Data to build Subject Guides: a case study
- Anita Colby and Sharon Shafer, Active Learning of Library Skills in the Engineering Classroom
- John Forys, Luring them Back: How we used everything short of sex, drugs, and violence to bring engineering students back into the library
- Julie Cook, Linda Whang, and Theresa Barker, Desperately Seeking information: How and where engineering students find the information they need
- Audrey Jackson, Tracking the "Elusive" e-resource

A preliminary calendar for the ELD Conference Program in Chicago is available at *http://eld.lib.ucdavis.edu/conf/conf06.php*.

It's not too early to think about getting your presentations, papers, and/or poster sessions mounted on the ELD web site. Please send your files to Bob Heyer-Gray, ELD Webmaster, at rheyer@ucdavis.edu.

Election '06: Slate of Candidates

The ELD Nominating Committee is pleased to announce the slate of candidates for 2006:

Director:
John Forys
University of Iowa

Michael White
Queen's University, Kingston, Ontario

Secretary / Treasurer:
Alice Trussell
Kansas State University

Amy Van Epps
Purdue University

The official ballot with candidate statements is now available at *http://gemini.lib.purdue.edu/ELDvoting/* to current ELD members only. You can also access the ballot from the ELD home page at *http://eld.lib.ucdavis.edu/*. Voting will conclude on March 24. Results will be announced no later than April 7, 2006.

I'd like to thank the candidates for their willingness to stand for election. I'd also like to thank the members of the Nominating Committee, Beth Brin and Mary Steiner.

Your vote is important!

Andy Shimp
ELD Nominating Committee Chair
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New Members

Christine Drew has been Instruction Coordinator at Worcester Polytechnic Institute in Massachusetts since October 2005. Christine is leading the information literacy initiative at WPI, and provides instruction and reference for all undergraduate and graduate departments on campus. She also works on the library's instruction technology projects such as podcasting, use of blogs, and helping to maintain the library's web site *http://www.wpi.edu/ +library*. She holds a BA from Worcester State College, and an MLS from Southern Connecticut State University. Prior to WPI, Christine has worked as instruction/reference librarian at Babson College, Wellesley, MA and St. Norbert College in De Pere, WI. Interests include beekeeping and blacksmithing.

People & Places

Mel DeSart, Head of the Engineering Library at the University of Washington, has been named Acting Head of the Science Libraries from March 16, 2006 through June 2007. He replaces Steve Hiller, who has assumed a new position as Director of Assessment and Planning. Mel will continue as Head of the Engineering Library.

Committee Reports

Accreditation and Standards Committee

The Accreditation & Standards Committee continues to investigate ways to impact on ABET Criteria 3a-k, (also known as Engineering Criteria 2000, ABET engineering criteria, ABET 2000 Criteria or ABET Outcomes) using information literacy standards and library instruction. The driving interest here for engineering educators is assessment, that is, proving whether the ABET Criteria/Outcomes are successfully addressed in the curriculum pertaining to each engineering program at a given university. At the 2006 ASEE Conference in Chicago, ELD's Accreditation & Standards Committee plans to illustrate that engineering faculty and librarians have a common interest in information literacy components designed to address any of the "soft" or "professional" outcomes which constitute the ABET Outcomes. More to come in the May 2006 ELD newsletter.

Kevin Drees
ELD Accreditation & Standards Committee Chair
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Committee Reports

STS Publisher/Vendor Relations Discussion Group Meeting at ALA Midwinter

On Sunday morning, January 22nd, the ACRL Science and Technology Section Publisher/Vendor Relations Discussion Group held a session (almost entirely Q&A), with the focus being on the Punch List of Best Practices for Electronic Resources (see *http://eld.lib.ucdavis.edu/punchlist/* for a link to a pdf of the Punch List text, three one-page flyers to introduce people to the PL, and a Web form for submitting comments). Congratulations go to Ibironke (Ronke) Lawal of Virginia Commonwealth and George Porter of Cal Tech for organizing the session.

Because the session was almost entirely questions and answer, there are no papers or presentation slides. The session was audio recorded, and word has it there will be an attempt to transcribe that audio, but given that the session ran for an hour and a half, that transcription will likely take some time to complete. In the meantime, I offer this brief synopsis, based on some very sketchy notes I took (plus a little info from the end of the session noted and forwarded by George).

Eleven panelists represented nine publishers of sci-tech content in electronic form. In many cases that e-content is primarily journal-based, but at least one publisher's primary e-content is monographic, while for two others the primary e-content takes the form of bibliographic or other databases. The publishers and their representatives were:

American Institute of Physics - Douglas LaFrenier and Christine Orr
CSA - Patrick Julius and Kendall Bartsch
Elsevier - Tony McSean
IEEE - Judy Brady
Institute of Physics Publishing - Melanie Faithful
Springer – Oona Schmid
Taylor & Francis - Steve Wells
Thomson Scientific - James Pringle
Wiley Interscience - Christopher McKenzie

Ronke started the session by asking me to provide a brief history about how the Punch List came to be. That was followed by Ronke asking the panel members about specific sections of the Punch List and their degrees of compliance with the best practices outlined in those sections. In some cases compliance was nearly universal across the publisher represented, while in other cases there was a wide degree of variance.

One point raised initially as a question, then addressed by virtually all of the panelists, was that different degrees of compliance with various portions of the Punch List related, in part, to the type of material that formed a particular publisher's primary form of electronic content, be that journals/articles, monographs, or databases, and the different requirements and needs that related to each of those formats. One

Committee Reports (cont'd)

panelist indicated that many of his publisher's access-related policies were based almost entirely on the publisher's usage stats – that few changes would be made that might adversely affect those statistics.

A couple different panelists commented on how the access (and other) rules have sometimes changed because of one publisher's sale to / purchase of another.

Publication of third party content was also discussed. In the case where a publisher is offering e-content, by contract, on behalf of a third party, that contractual agreement often dictates the terms for many of the topics covered by the Punch List. In some cases, those terms may vary considerably from the publisher's standard policies.

One panelist commented that the Punch List appeared to have been written with a focus on issues related to content that originally appeared in print and was later converted to electronic form [which is correct, that WAS the focus of the PL when originally written – Mel], and that perhaps some tweaking of at least some of the sections to focus on content that was born digital might be in order.

A number of questions later in the session focused on the deposition of content into institutional (or other) repositories. Focuses included whether or not deposition was allowed at all (in at least one case it is not) and on what version of a publication each publisher allows to be deposited (author's preprint/ postprint, publisher's postprint, etc).

A point made by a number of people in the audience was that all of the publishers represented should expose their metadata and fulltext to crawling by Google and other similar services. A number of publishers reported that they were already doing so, and that their statistics on where people were arriving and their content from indicated that a large percentage of the access to their content was originating from such services.

Finally, near the end of the session, Mel asked those assembled for their thoughts on what might be missing from the Punch List document/content. Suggestions included:
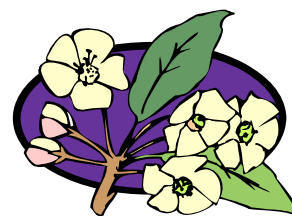
- accessibility (ADA) issues
- how some of the PL content would apply to search engines
- issues related to secure PDF
- digital rights management
- cookies, tracking vs. privacy, etc. (mentioned by multiple individuals)
- format friendliness of electronic reprints (e.g. for use in course reserves)
- usability/functionality of platform interfaces

To all reading this synopsis, please be advised that the subgroup of ASEE ELD's Scholarly Communication Committee that is involved with the care and feeding of the Punch List will be taking these suggestions under advisement, and on be-

half of that group and the SC Committee as a whole, I want to thank all the publisher reps and librarians who participated in the session.

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Follow-up (1 March 2006) – As a result of this session, Doug LaFrenier of AIP has asked Mel to speak, in part about the Punch List, at the annual meeting of the Council of Science Editors in Tampa in late May. Mel will be one of three speakers in the session: Metrics and More: How Librarians Decide to Purchase or Cancel Your Journal.
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Mel DeSart
ELD Scholarly Communication Committee Chair
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Liaison Reports

Digital Archives for Science & Engineering Resources (DASER) II Summit

ASIST in cooperation with the SLA, Sci-Tech Division presented Digital Archives for Science & Engineering Resources (DASER) II Summit December 2-4, 2005. The title of this summit was "Challenges & Opportunities: Digital Libraries, Institutional Repositories, Open Access". DASER's website, http://www.daser.org/ includes the program and Powerpoint presentations. A good blog of the proceedings *http:// christinaslibraryrant.blogspot.com* is by Christina Pikas, U.of Maryland.

This was a great meeting to go to if, like me, you are jumping into institutional repositories (IR). I met some of the "names" (Jan Velterop, Vivian Siegel and Stevan Harnad) and ended up writing a six page conference summary on the background and practical information presented and discussed. It was a boisterous crowd (often lead by Stevan Harnad) of 50-60 librarians, publishers, vendors and one brave NIH representative.

My introduction to the group received a vociferous response because I mentioned that the University of Utah (UU) was loading URLs and not actual publications into our repository. "You can't call that a repository!" was the general consensus. I mentioned my conversation with ACS, i.e. ACS will allow authors to submit only URLs to their IR because ACS wants to

Liaison Reports (cont'd)

control the "copy of record" to maintain consistency. Logical. The audience's response was loud and negative. (NOTE: ACS was not represented at the summit.) Later, I cornered Stevan Harnad, who insisted there was no reason why a publisher's version, an author's version and an IR version of the same research paper cannot exist. It is up to the reader to decide which one is appropriate. Even later, someone told us that drug companies are requesting inclusion of a provision in their subscription contracts that all publications authored by their researchers and published in the publications covered by the contract be allowed deposited said paper in the IR. We have actually initiated this approach at the UU. Last but not least, a new business model at APS was presented by Bob Kelly. They are allowing authors to deposit their APS publications (not the preprint) in their respective institution's repository and selling the accompanying XML. This would provide less work for IR builders, uniformity in metadata, and solve the problem of "copy of record".

The most practical session included Jeff Riedel, ProQuest discussing open access, IR and ProQuest's Digital Commons (DC); and Mary Steiner, University of Pennsylvania (UP) discussing her two years of experience in implementing an IR using DC. Most entries in IR are gray literature (and here UU gets two points for not adding gray literature into our IR). Users access IR content mainly by search engines (74% and of these 90% is via Google) and never by OAIster. OAIster, start marketing to users!

The School of Engineering and Applied Science at UP wanted to raise their profile on campus and in the world. Mary used this to initiate UP's IR, ScholarlyCommons@Penn *http:// repository.upenn.edu*. In other words, she did not start with the problem most IR are facing, i.e. the challenge of recruitment and explaining to authors the benefits of depositing their papers in the IR. Mary suggests that IR staff take the burden off

the authors. Librarians should be dealing with the copyright, uploading, metadata, etc. Ninety-three percent of publishers of engineering research did not have problems with including the paper in IR. The library should have oversight of the repository with a management team consisting of subject selector, cataloguer, electronic acquisitions person for handling copyright, and an IT person. Before going public with your IR be sure you have something to show. Register the repository with search engines and directories to draw people in. Assess its progress quantitatively. In addition to the usual number of submissions and users, measure the impact of the repository on the university's research by comparing IR growth with growth of the research budget and output. Use *http://www. webometrics.info.com* to compare with other universities.

That brave NIH representative, Timothy Hays presented an overview of NIH's public access policy and then discussed the first six-months of the project. Between 2.25 and 3.56% of potential submissions were actually submitted. Reasons given for the low number are the 6-month embargo and confusion over copyright and version control. Time and priorities of the researcher were also listed as factors for not submitting. Tim had to endure comments from the audience since the main reason for the low submission rate was NIH backing off from mandatory submissions.

David Osterbur, Harvard University discussed the changing roles of librarians and how we must be ready to learn and teach new skills, e.g. bioinformatics, cheminformatics. He's correct, but haven't we been learning and teaching new skills forever?

Daureen Nesdill
SLA/Engineering Liaison
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See you in Chicago!