



Engineering Libraries Division Newsletter



December 2005



Message from the Chair

Jill Powell

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Jill Powell, ELD Chair

Hopefully you're already thinking about Chicago. I've been thinking of touring those Frank Lloyd Wright houses, museums, and of course, seeing all my colleagues again at the ASEE National Conference. Kate Thomes and the program committee have been hard at work organizing the conference. Check out her message on page 3 for the program details. It will have many exciting programs you don't want to miss.

All of us have been keeping busy. ELD officers continue to work on your behalf between conferences. Andy Shimp, past ELD chair, has been successful in getting ASEE website recognition for our ELD sponsors. See http://www.asee.org/about/events/conferences/annual/2006/ELD_Sponsors.cfm and <http://www.asee.org/about/events/conferences/annual/2006/Sponsorship.cfm>. These pages have detailed information on sponsorship opportunities and forms. Many thanks to Andy and the ASEE staff for creating these pages so we can better recognize our sponsors.

Since electronic voting has moved up the process of officer elections, we are also moving up the process of making committee chair appointments. The reason for this is so elected and appointed officers have more time to plan their conference travel (for attending the Executive Committee Meeting which is usually on Wednesday afternoon). We will have two positions open on the Executive Committee (First Year Director and Secretary/Treasurer). The committee chairs whose terms are up in 2006 are Awards, Webmaster, Development, Membership, and Publications.

Several of these committee chairs have only been in their positions since 2004, and will likely be reappointed to another term. However, chairs for Membership and Development have been on longer and we'll be considering replacements. Below is a summary of job responsibilities; for the complete version, go to <http://eld.lib.ucdavis.edu/bylaws.php#addendum1>. The requirements for candidates are current ELD membership and attendance at the Extended Executive Committee meeting at the conference.

Membership Committee Chair [Appointed]

The Chair of the membership committee plans the annual ELD Welcome Reception where new and continuing members meet. Working with the second year Director, the Membership Chair chooses a site and caterer for the event, and welcomes new members. He/she also sends welcome letters to prospective members and reminders to lapsed members. He/she prepares an annual report on the number of members for the May ELD Newsletter.

Development Committee Coordinator [Appointed]

The Development Committee Coordinator has the responsibility of managing our growing list of sponsorship opportunities. He/she coordinates the work of the development liaisons and works with the Secretary/Treasurer, ensuring that all sponsors are contacted and money received for various events.



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/>

Message from the Chair

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First Year Director [Elected]

This two-year position shares in the leadership of the Division by serving on the Executive Committee and Extended Executive Committee. During the first year, the Director will plan the Annual Banquet for the 2007 conference. In the second year, the Director helps the Membership Chair plan the ELD Welcome Reception. This position is voted upon by the membership.

Secretary/Treasurer [Elected]

This position begins a four-year cycle continuing on to Program Chair, Division Chair and Past Chair/Chair of the Nominating Committee. The successful candidate will have the opportunity to organize a national level conference program and lead ELD. While the commitment may seem to be daunting, I can tell you from personal experience that there are many people to assist you along the way, and it is one of the most professionally rewarding activities you'll ever undertake. This position is voted upon by the membership.

If you are interested in volunteering for the **appointed positions, please email Jill Powell at jhp1@cornell.edu by February 3, 2006.** State why you are interested and include a resume (or summary of your background). If you are interested in one of the **elected positions, email Andy Shimp at andy.shimp@yale.edu.**

What if you've volunteered before and weren't selected? Volunteer again. Every year the needs and composition of committees change. Sometimes people volunteer informally or at the conference, but it's easy for the officers to lose track of your inquiry. So, if you're interested, email me a message between now and February 3rd. If you need more information or prefer to call me at work, my number is 607-255-8701.

Candidates for the elected positions will be voted upon during March. Results and appointments will be announced by the first Friday of April for the elected positions and the second Friday of April for the appointed positions.

I encourage you to make nominations for the ASEE ELD Awards to John Teleha. See page 4 for details about the awards and award criteria. The deadline is February 8, 2006.

Please contact me if you have any questions or suggestions for the Engineering Libraries Division.

Jill Powell
ELD Division Chair
jhp1@cornell.edu



Nominations Sought!

Nominations are being sought for the positions of Secretary/Treasurer and Director. You may nominate yourself, or someone else. If you nominate someone else, please check with that person first to confirm his or her willingness to be nominated for the position. Please send nominations to Andy Shimp at andy.shimp@yale.edu.

Election to the position of Secretary/Treasurer begins a four-year commitment. In the second year, the successful candidate will serve as Program Chair for the 2008 annual conference in Pittsburgh, then Division Chair, and finally Past Chair/Chair of the Nominating Committee.

The Director serves a two-year term. During the first year, the Director organizes the ELD banquet for the 2007 annual conference in Honolulu. In the second year, the Director organizes the ELD Welcome reception for the 2008 conference in Pittsburgh.

For more information about the duties and responsibilities of these positions, please consult the ELD Bylaws at <http://eld.lib.ucdavis.edu/bylaws.php>.

Becoming an ELD officer is a great opportunity to share in the leadership, development and planning activities of the division by participating on the Executive Committee and Extended Executive Committee.

A slate of candidates will be announced by the Nominating Committee no later than Friday, February 17, 2006. The members of the Nominating Committee are Andy Shimp (chair), Beth Brin, and Mary Steiner.

Andy Shimp
Nominating Committee Chair
andy.shimp@yale.edu

Your Name Here!



Program Chair's Update

ELD Program for Chicago, June 2006

Thank you to everyone who has contributed so far to next summer's conference program. We had a total of 40 abstracts submitted for ELD technical sessions, a couple of which were referred from other divisions, but most of which came from ELD members. I think that's great!

Last year, ASEE Headquarters told the program chairs from all the divisions that time and space would be very tight, and that some tough choices would need to be made for the Chicago program. Nonetheless, following my review of abstracts submitted, I went ahead and requested 6 technical sessions. ASEE actually gave us all the sessions I requested, but one of them was scheduled for 7:00 am Wednesday: the morning following our Annual Banquet. In consultation with the Executive Committee I decided to cancel that session and move presentations from it into the ELD Poster Session. We didn't think it would be fair to the presenters, or the rest of the membership, to hold a session at that hour, on that day.

On balance, I think we have an excellent schedule to look forward to in Chicago. One point I'd like to start making early is that Wednesday, June 21st will be an important day in the ELD program, with the division's Poster Session at 8:30 am, and then a large panel discussion on Collaborative Information Literacy Programs at 2:30 that afternoon. Both of these events involve the participation of lots of ELD members, making Wednesday a busy day in our Chicago conference.

I know that many people traditionally leave early Wednesday, so I'm putting the word out ASAP that it would be great if folks could stay through until Thursday this year. Mel has raised the specter of finding some particularly captivating CUEBALLS events for Wednesday evening for those who can arrange to stay until Thursday. Tantalizing, eh? It would be fun to stay just to see what he can come up with. (Mel "I Love a Challenge" DeSart, are you reading this?)

For the rest of the program, expect to hear a stimulating discussion on scholarly publishing issues, a panel on engineering librarianship to mentor both the beginning and veteran librarian, a look at technologies that are changing what we need to learn and how we do our work, and a session focusing on assessment of information literacy efforts.

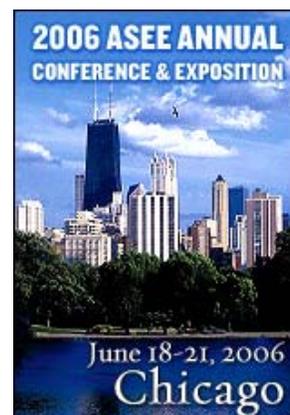
In addition to our technical sessions we will have the full complement of business meetings and receptions to allow new and long-time members to meet and converse, to conduct the business of the division, and to allow committees to meet face to face for a scheduled period on Tuesday afternoon.

The coming months will be filled with logistical and catering issues, with communication with our generous sponsors, and

continuing contact with presenters in our technical sessions and the ELD Poster Session, as everyone works on their portion of creating what I hope to be another stimulating and rewarding program. Again, my thanks to everyone who has helped me so far in planning our program.

Please mark your 2006 calendars from the Society-wide Picnic on June 18th to the Forum on Information Literacy Collaborations on June 21st, and who know what CUEBALLS activities the evening of the 21st... Chicago, here we come!

Kate Thomes,
ELD Program Chair 2005/2006
kthomes@pitt.edu





Awards Committee "Call for Nominations"

The ASEE/ELD Awards Committee is seeking nominations for three annual awards. Nominations are an essential part of the awards process. The committee welcomes input from engineering librarians and other colleagues.

Pop Quiz! Ask yourself the following:

- Did you write an engineering information related paper in 2005?
- Have you read an excellent engineering information related paper written in 2005?
- Did you write an engineering information related book in 2005?
- Have you read an excellent engineering information related book written in 2005?
- Have you purchased or reviewed a significant engineering information related reference work written in 2004 or 2005?
- Do you know someone who deserves to be recognized for his or her "Distinguished Service" to ELD and/or engineering information?

If you answered "Yes!" to any of these questions, please take the time and effort to nominate each item you said "Yes!" to. Please feel free to nominate more than one worthy candidate! The awards are listed below along with basic summaries and their respective requirements. A link to the ELD Awards web page is also included. Send all nominations via regular mail and/or e-mail to:

John C. Teleha
 Chair, ASEE/ELD Awards Committee
 F.D. Bluford Library
 North Carolina Agricultural & Technical State University
 1601 East Market Street
 Greensboro, NC 27411
 teleha@ncat.edu

Please take note of the February deadlines. Prior to 2005, the committee began their work after nominations were received at the end of March. The change to the middle of February reflects the need to have the committee finish its work on these three Awards *before* March 15th.

1. HOMER I. BERNHARDT DISTINGUISHED SERVICE AWARD

Each year at the ASEE Annual Conference, the Engineering Libraries Division presents an award, consisting of a plaque that recognizes work that contributes to the advancement and development of excellence in engineering libraries. Membership in ASEE is not a requirement for this award.

Award nominations must include the name, title, and contact information of the nominee and nominator, nomination rationale statement, and curriculum vitae of the nominee. The rationale statement should not exceed 700 words and should

clearly indicate why the candidate is being nominated for this award. Letters of support from individuals besides the person making the nomination may be included.

Deadline for Nomination: February 8, 2006

2. BEST PUBLICATION AWARD

The purpose of this award is to honor the best new paper or non-reference monographic work in engineering information published during the year 2005.

Criteria:

1. Single or multiple authors are eligible. Works authored by Awards Committee members are ineligible during the members' term of service.
2. Work must have been published during the year prior to the year in which the award will be made.
3. Work should represent a significant contribution to the field of engineering information. Work should be scholarly, show evidence of thorough research, documentation, and critical evaluation. It should be clearly written and well organized.

Deadline for Nomination: February 8, 2006

3. BEST REFERENCE WORK AWARD

The purpose of this award is to honor the best new reference work in engineering information.

Criteria:

1. Single or multiple authors are eligible. Works authored by Awards Committee members are ineligible during the members' term of service.
2. Reference works must have been published/released during the previous two years prior to the year in which the award will be made.
3. Reference works should represent a significant contribution to the field of engineering information.
4. Works in all media are eligible.

Deadline for Nomination: February 8, 2006

The ELD Awards web page (<http://eld.lib.ucdavis.edu/awards.php>) has this detailed information on each award as well as a listing of past recipients.

Remember! Your participation in the nomination process is essential to keeping the Awards a vital part of ELD. Without your nominations, we run the risk of missing the "Best of the Best!"

Thank you all for your time and effort.

John C. Teleha
 Awards Committee Chair
 teleha@ncat.edu



New Members



Sarah Jane Dooley is a Reference and Instruction Librarian at the Sexton Design & Technology Library at Dalhousie University in Halifax, Nova Scotia. A native Nova Scotian, Sarah Jane is a 2005 graduate of the Dalhousie University School of Information Management. Her subject specialties include Chemical, Biological, Environmental, and Petroleum Engineering. Other opportunities include collection development and instruction for those areas. Sarah Jane enjoys painting watercolors, and she recently achieved her 10K running goal. She plans on joining the half marathon clinic with her local running club in January. She looks forward to the opportunities that exist through the ASEE Engineering Libraries division, and hopefully will see you all at the conference this summer.

Amanda Werhane is currently a Reserves and Information Services Librarian at Kurt F. Wendt Library at the University of Wisconsin-Madison. She acts as a liaison to 12 departments in order to coordinate print and online reserves, supervises student circulation workers and performs circulation services, provides reference services, and assists with instruction. She is also working on a digital archive initiative and an e-book database analysis project. Before beginning her job at Wendt Library in August, she gained six years of library work experience in academic, public and school libraries. Her BS in Biological Aspects of Conservation, and MA in Library and Information Studies, were both earned at the UW-Madison (with a six year break in between). She's a science fiction and non-fiction fan, and her husband, brother-in-law, and father-in-law are all engineers!



People & Places

Nestor L. Osorio was the moderator of the session: "The role of subject specialists in academic libraries: What they do and how" at the Illinois Library Association Conference in Peoria, IL., October 14, 2005. He also presented the paper: "Bibliographic subject analyses: Strategies and methods" at the same conference.

Nestor L. Osorio has been selected as a member of the Executive Vice-President and Provost Search Committee of Northern Illinois University.

Committee Reports

Membership Directory

Our Webmaster Bob Heyer-Gray has provided a very elegant solution for the distribution of the Membership Directory. The 2005/2006 Engineering Libraries Division Directory of Members is now available in PDF format. Members should have received a notice via ELD-L with a web address and password information. Please contact the Directory Editor if you would like to review your entry in the ELD Membership Directory, or send any corrections or changes to the Editor.

Thank you!

James Van Fleet
Membership Directory Editor
vanfleet@bucknell.edu



JSTOR Task Force

The JSTOR Task Force is continuing its work on a prioritized list of engineering journals to submit to JSTOR. We have used the ISI Journal Citation Reports to create an initial list of engineering journals, which was supplemented by publisher based lists. We are now in the process of adding additional information such as current availability of online volumes and where the journals are indexed.

This information will be used to determine which journals are in our top priority list submitted to JSTOR. After JSTOR reviews our list, they will negotiate with the publishers to determine which titles can actually be added to a JSTOR collection. We're hopeful that by next summer we'll have an indication of some of the titles which will be included in a JSTOR collection.

Larry Thompson
JSTOR Task Force Chair
larryt@vt.edu

ELD-ILit Update

ELD-ILit, an electronic discussion list designed for exchanges addressing issues related to information literacy and library instruction within engineering libraries or engineering disciplines, was discontinued on November 1, 2005. To discuss these important issues with your colleagues, please use ELDNET-L.

Angie Locknar & Stephanie White
ELD-ILit Co-moderators
locknar@mit.edu & Stephanie.White@olin.edu

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Liaison Reports

American Chemical Society Chemical Information Division

I was at the American Chemical Society (ACS) 230th National Meeting in Washington D.C., August 28th-Sept. 1, 2005.

Education committee

1. At the Education committee meeting, there was an extensive discussion on how to promote the workshop, *Teaching Chemical Information: Tips and Techniques*. Ideas that were floated included:

- Staging the workshop at conferences such as ACRL National; Charleston Conference in Charleston, South Carolina, Trisociety Symposium (co-sponsored by the American Society for Information Science and Technology (ASIST), American Chemical Society (ACS) and Special Library Association (SLA) in Austin, Texas, November 3-9, 2006; Chemical Education Conferences and American Society for Engineering Information. The latter was a point that came from me as a possible collaborative effort between ACS-CINF and ASEE-ELD. The workshop description can be found at: <http://www-sul.stanford.edu/depts/swain/hosted/cinf/index.html>
- The workshop currently holds at ACS regional and national meetings. If it works out that ASEE could host the workshop then it would hold at an ASEE national meeting.
- Fees for the workshop are \$125 for National and \$25 for Regional Meetings.
- The feasibility of this venture needs to be investigated and the logistics could be ironed out after that.
- Other possibilities discussed included online class possibly to be hosted by Indiana University.
- An option to put it online was also discussed. It might be an opportunity to learn more about CINF. Questions raised about this option were:
 - where will it reside, could it go on the ACS portal?
 - how much work will be involved?
 - will it be fee based?
 - could the online version be a teaser for marketing the full version?
 - will it be fee based?

Efforts are underway to reinvent the workshop, reach out to the chemical engineering community and possibly tailor the workshop towards meeting specific needs of faculty. The focus will be on the important issues:

- purpose
- audience
- content
- venue

2. Other possible collaborative venture between ACS-CINF and ASEE-ELD is the *Intellectual Property, Patents Workshop*. If there is interest on the ASEE side, plans could be

drawn to hold this workshop jointly at one of our conferences.

Executive meeting

The ASEE-ELD Punchlist of Best Practices for Electronic Resources

This is the second year in a row that I have presented the punchlist to this group. Before the meeting, I sent a message to the Chair of CINF to disseminate the URL for the Punchlist to all the members. At the Executive meeting, I passed around printed copies and presented the highlights of the document. Even though CAS, a division of ACS, a highly sensitive publishing enterprise has members present, there was a positive response to the punchlist. My successor, Patricia Kirkwood could follow up with answers if there are questions.

The executive committee examined the issue of dwindling membership and discussed efforts to recruit new members. Reaching out to other divisions and other organizations were mentioned as possible strategies.

With this report, I sign off after four years of ACS-CINF liaison. I thank ASEE for giving me the opportunity to serve and to bridge the gap between scientists and engineers.

Thank You

Ibironke Lawal
ASEE/ELD Liaison to ACS/CINF
ilawal@vcu.edu

IFLA Science & Technology Section

Conference Report from 2005 Annual Meeting in Oslo, Norway.

The World Library and Information Conference was considered a great success. Oslo and the Norwegian library community pulled out the red carpet treatment for excessive hospitality, great weather and a good time was had by all August 12-19. One could not forget the Nordic explorers of the past with an overall conference theme of "Libraries: A Voyage of Discovery." This was a bittersweet conference for me as I passed the reins having served two terms as Section Chair from 2001-2005 but I feel so confident about the dedication of this group and the commitment to effect widespread global library services that I look forward to completing my term engaged in program development on the Standing Committee. Working in an international environment like IFLA is a very rewarding activity.

The Science & Technology Section was extremely active at this conference exploring the general themes of open access/open source. It co-hosted with the Health & Biosciences Section a satellite meeting on August 13 at the Rikshospitalet University Hospital and speakers from around the world addressed issues ranging from institutional repositories, open access

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Liaison Reports, cont'd

sponsored research papers and different experiences regarding that; the range of models different scholarly societies and commercial publishers have in launching open access publications and products; trends in scholarly publishing and what readers and the scientific and medical community think about open access in broad strokes and concerning specific issues. Papers and presentations from this conference are hosted at http://www.ub.uio.no/ifla/IFLA_open_access/programme_abstracts.htm

The Science & Technology Open Session was devoted to "Open Source Literature: Widening the Scope to Serve Science and its Disciplines." Four speakers delivered three papers all available in several languages at <http://www.ifla.org/IV/ifla71/Programme.htm> (scroll down to program 101 for the papers). The first speaker was Keith G. Jeffery, Director of Information Technology at the Rutherford Appleton who addressed "CRIS + Open Access = The Route to Research Knowledge on the GRID." The industrial R&D communities are embracing this direction of metacomputing in a distributed environment and academic and research libraries are finding this very attractive to support all the programs and digitization underway. A presentation by two librarians at the University of Oslo, Anne-Mette Vibe and Arne Jakobsson highlighted the relationship between impact factors and the new budgeting model for research introduced in 2005 by Norway's Higher Education Sector documents rewarding scientific quality through publication output. The final paper was delivered by Mary-Deirdre Coraggio, Chief of the National Institute of Standards and Technology (NIST) in the US. She described the formation and implementation of the Publications Knowledge Management Program at NIST.

The Study Tour this year was to Kongsberg, the cradle of science and technology of Norway, about 75 minutes west of Oslo, where the silver mines were functioning from 1623 to 1958 and evolved into one of the largest silver mines in Europe. After an extensive tour of the mine with a ride on a tiny train and a sense of different waves of mining technology we had a better understanding of the rather remarkable system of artificial lakes connected by channels to power the mines. Nearby we visited the Norwegian Mining Museum and had the chance to not only view instruments used to mine but got to see an extensive Kongsberg silver display, which was not only beautiful and aesthetic but almost magical with different abstract shapes and colors. Adjacent there was another technology museum and the National Ski Museum, reminding us again of how the mountains provide opportunities for recreation and competition.

The overall conference has many wonderful social and cultural events. The opening of the newly remodeled Norwegian National Library took place, the King of Norway attended several events, attendees had the chance to see many historical buildings and enjoy the natural setting of Oslo on the fjords while getting exposed to the regional literature and culture of this beautiful land in Scandinavia. Every night

there was a soiree where cultural norms were explored by artists, musicians, authors, poets, and playwrights and people in the media.

In terms of business transacted by the Standing Committees, there was great interest in the ELD Best Practices for Electronic Resources and continuing to share information. About one fourth of IFLA STS members are applied sciences or engineering librarians working in academic, research or national libraries.

IFLA STS is already planning its meeting in Seoul August 20-25, 2006. A call is out for papers on the theme of the "Workings of the Ubiquitous Library: Will all library services and content be available to anyone, anywhere at anytime?" This promises to be another exciting adventure in science librarianship and I invite you to visit and monitor the Section website at <http://www.ifla.org/VII/s7/index.htm> where one can find the newsletter, progress reports about ongoing research projects and plans for future conference activity.

Julia Gelfand
ASEE/ELD Liaison to IFLA STS
jgelfand@uci.edu

Committee Reports

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New ELD Scholarly Communication Committee

Formed this fall, the ELD Scholarly Communication Committee is now up and running. Members are: Karen Andrews, Mel DeSart, Deborah Helman, Bob Heyer-Gray, Judy Luther, Alesia McManus, Liz Mengel, Beth Mohler, George Porter, Don Richardson, John Saylor, Mary Steiner, Tom Volkening, Scott Warren and Mike White. The Committee's new web page is at <http://eld.lib.ucdavis.edu/scc.php>.

Five subgroups will be working on a variety of projects. One group is organizing a session for next summer's conference while a second continues work on the Punch List of Best Practices for Electronic Resources. A third group will be working on an annual review of scholarly communication-related activities in engineering, the fourth will be compiling a list of copy/distribution/archival rights offered to authors by engineering publishers, and the fifth group is in the process of setting up an engineering scholarly communication blog. More info about each of these activities will appear on ELD-L and on the new blog in the coming weeks. For info on the membership of each subgroup and who is coordinating the work of each group, please see the Web page at the URL above.

Mel DeSart
Scholarly Communication Committee Chair
desart@u.washington.edu

ELD is #1!

The Engineering Libraries Division is the leader among all ASEE divisions in conference attendance, according to statistics from the 2005 ASEE conference compiled by Dwight Wardell, Manager of ASEE Member Services.

Out of 227 total ELD members (at the time of the conference), we had 101 attendees, or a 44.5% turnout. A distant second is the Software Engineering Constituent Committee, with 31.7% of their members attending the conference. Next is the Educational Research and Methods Division with 31%.

Former ELD Chair Larry Thompson prompted the question that resulted in this analysis of attendance by division.

ASEE 2005 Conference Attendance:

Division	Attendees	Total Division Members	Percentage
Engineering Libraries	101	227	44.5%
Software Engineering Constituent Committee	19	60	31.7%
Educational Research and Methods	352	1137	31.0%
K-12 & Pre-College Engineering	122	416	29.3%
Engineering Technology	220	771	28.5%
Engineering Economy	44	156	28.2%
Freshman Programs	167	607	27.5%
Multidisciplinary Engineering	85	309	27.5%
Women in Engineering	203	741	27.4%
Liberal Education	68	251	27.1%
International	59	234	25.2%
Manufacturing	101	418	24.2%
Engineering Ethics Constituent Comm.	81	337	24.0%
Engineering Design Graphics	65	278	23.4%
Two Year College Division	95	409	23.2%
Design in Engineering Education	175	769	22.8%
Information Systems	182	815	22.3%
Minorities in Engineering	94	421	22.3%
Entrepreneurship	139	633	22.0%
Computers in Education	159	726	21.9%
Continuing Professional Development	47	216	21.8%
Industrial	62	287	21.6%
New Engineering Educators	68	326	20.9%
Mechanics	95	457	20.8%

Division	Attendees	Total Division Members	Percentage
Engineering Management	77	376	20.5%
Experimentation & Lab-Oriented Studies	262	1287	20.4%
College Industry Partnerships	341	1718	19.8%
Architectural	50	260	19.2%
Engineering and Public Policy	28	147	19.0%
Instrumentation	47	251	18.7%
Nuclear and Radiological	20	108	18.5%
Electrical and Computer	196	1085	18.1%
Mechanical	188	1053	17.9%
Graduate Studies	74	418	17.7%
Materials	141	841	16.8%
Construction	24	145	16.6%
Systems Engineering Constituent Committee	13	79	16.5%
Chemical Engineering	113	689	16.4%
Civil Engineering	102	637	16.0%
Energy Conversion and Conservation	127	873	14.5%
Aerospace	61	420	14.5%
Biomedical	80	565	14.2%
Environmental Engineering	56	422	13.3%
Cooperative Education	25	191	13.1%
Mathematics	33	262	12.6%
Ocean and Marine	28	228	12.3%
Biological & Agricultural	24	217	11.1%
Physics	25	259	9.7%

