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Engineering Division

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ENGINEERING DIVISION

The objectives of the Engineering Division are to provide an association for those having an interest in library and information science as they apply to engineering and the physical sciences and to promote the use of materials and knowledge for the benefit of libraries and other educational organizations.

From the Chair

Accolades to our outgoing Division Chair Sophia A. Smith. Not only did she put together some fine technical programs but she also masterminded a superlative 20th anniversary celebration, a veritable chocaholic's paradise. Details on the Engineering Division 1988 Annual Conference programs will follow in Sophia's report.

Thanks also to our Past Chairman and Long Range Planner, Margaret Bean, and to our other outgoing Board member, Secretary-Treasurer, Nina Arrowood. Both have served the division very well.

Words of appreciation go to the various Committee Chairs. At the annual business meeting Sophia Smith awarded a special commendation to Mary Ann Schmidt. Mary Ann was responsible for putting together the new membership directory. Sophia will have more to say about the directory in her report. Suzi Hayes arranged an excellent humorist/magician to entertain us at that same breakfast business meeting. Suzi also coordinated the 20th anniversary buttons design, production, etc.

On behalf of all members of our Division, I congratulate our newly elected officers: Frances Wood, Chairman-Elect, and Lynn Tinsley, Secretary-Treasurer. Monica Ertel continues in her term as Director. Sophia Smith, in her role as Past Chair, will head the Long Range Plan committee. The names, addresses, and telephone numbers of all my committee chairs and the addresses and telephone numbers of the Board will appear later in the column.

New York 1989 Preview: Mark your calendars — June 10-15, 1989 for the Annual Conference in New York City. Repeat performances will be our Division business meeting, Monday, 7:30 a.m., and the Standards Roundtable, Wednesday p.m. On Monday we will have a four hour technical session co-sponsored with four other divisions. The time will be split between speakers and small discussion groups; the exact

time configuration is yet to be decided. We will invite speakers who represent the professional associations to which our end-users belong such as ASCE, American Society for Metals, and American Chemical Society. Each speaker should address the following. What information products do they promote i.e. online database, CD-ROM, or video cassettes? What has been their training strategy? How do they see our role as information professionals as they target our end-users as theirs?

Tuesday morning another co-sponsored technical session on Translations. We will contact American Society for Metals, Chemical Abstracts, Institute of Paper Chemistry, McElroy, and Plenum. Each will be asked a series of questions addressing cost, coverage policy, and the background of their translators.

Our Thursday Field Trip will be co-sponsored with Nuclear Science and Metals and Materials Divisions. The day's attraction will be Brookhaven National Laboratory, Long Island. Several other sites have been recommended for 1/2 days or less. Nothing is etched in granite yet! Be on the alert for slight changes or for entirely new developments. See you in the Big Apple!

Do any of you know an organization that has engineers doing their own online database searching? If so, please contact me. Possibly one of those engineers would address our group with his/her online searching observations.

Carol Ann Irons
Chair, Engineering Division

Denver 1988 Annual Conference Engineering Division Report

Impressions of Denver

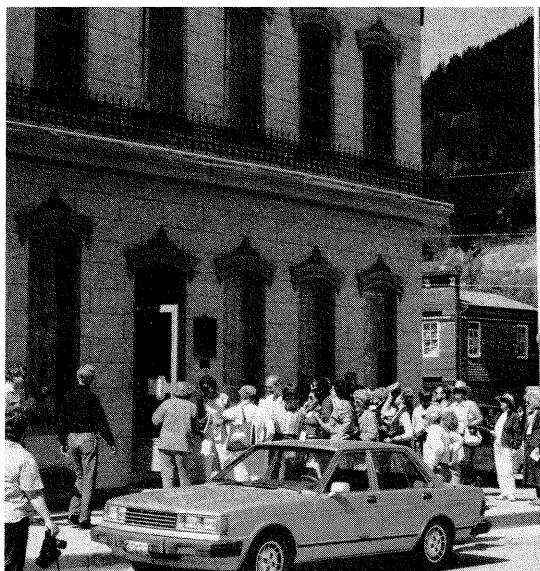
This was a high-energy conference, sparked by exhilarating weather — warm, sunny days with thunderstorms and lightning frequenting the late afternoons, and yes, a TORNADO in downtown Denver — (those who waited in the Conference Center's sub-basement for the "all clear" siren get the "Croix de Denver" award).

Denver proved to be a very friendly city, the Conference Center was just far enough from the hotels to be a brisk daily walk, and there were plentiful good restaurants, with reasonable prices. What a great setting — what more could you ask for? Plenty — an excellent Conference — which is just what the lucky attendees got!

General Conference Impressions

As usual, you had to choose among the many excellent programs — with many concurrent sessions, *and* try to schedule enough time to cruise the vendor exhibits, *plus* leave time for the “*Secret Conference*”, which is so critical — the “networking” aspects of meeting new contacts, exchanging business cards, getting together for a drink or meal to discuss common concerns, or simply taking time to socialize at the Open Houses, etc. — ah, the simple joy of being with colleagues who *Understand What You “Do”* . . . a chance to revitalize yourself.

The keynote speeches and main sessions were excellent. The favorite new library automation buzzword? — it was the year of “Configuration” — selecting the optimal hardware/ software/ network/ combination for your library. “Hot Topics” this year included: *Anything* concerned with environmental information; corporate records management as a Library function; and the practicalities of introducing CD-ROM products into the Library. And how did the Engineering Division Programs fare?



Joint division field trip to Georgetown, “Mining Era in Colorado: You are There”. Touring victorian Georgetown.

Engineering Division Programs at the Conference — Engineering Division’s 20th Anniversary Celebrated in Style —

MONDAY, JUNE 13

Annual Business Meeting/ Breakfast Highlights:

To start off the week celebrating the Division’s 20th Anniversary, members were treated to an eye opener in the form of a delightful performance (a very funny sendup “history” of the glories of engineering) by local magician/ comedian Steve Aldrich.

The Division was pleased to sponsor two student members at this year’s Conference: Mary Angela Foppini, and Donna R. Amjadi — both of whom were introduced and awarded Engineering Division posters.

Mary Ann Schmidt, Publications Coordinator, was given a special “Award of Excellence” for compiling the “20th Anniversary Engineering Division Membership Directory” — which features a geographical index, as well as a description and brief history of the Division. (SEE the excerpt: “List of Engineering Division Chairs”, 1967 — present, printed after this Conference Report.) Members as of March 31, 1988 are listed and Directories were mailed to them after the Conference. (New members since March 1988 will be sent directories as they join.) ***Special thanks go to our generous sponsors for the Directory: DIALOG Information Services, and the Instrument Society of America for the printing of this Directory; Engineering Information, Inc. and the United States Book Company for underwriting the mailing costs; and Hart Crowser, Inc. for cover design and production.***

Another of Mary Ann’s compilations, a listing of bibliographies and information sources pertinent to Engineering, has just been published by SLA as part of a larger compilation titled “Tools of the Profession”. (This title is available for sale by SLA.)

Members left sporting pink “20th ANNIVERSARY” buttons, and savoring mint chocolates (just to whet interest for BIG PARTY!).

“Energy and the Environment: Where Horizons Meet”:

This major technical session, co-sponsored with six other Divisions, brought together nationally known speakers to address issues affecting our increasing needs for both energy and a protected environment.

Fred Stoss moderated this session, which was attended by over 250.

1. "The Megawatt-Revolution" was presented by Dr. Amory Lovins, expert on energy policy from the Rocky Mountain Institute, who stressed the importance of economics in saving both energy and the environment.

Instead of an "energy industry" based on developing new resources, he suggested we replace that concept with an "efficiency industry" based on developing new technologies and products designed to save and extend energy utilized from our present resources. Put simply, his premise is that saving energy through efficiencies is cheaper than developing new energy sources, and saves not only dollars but the environment. Examples of electricity efficiencies were the most dramatic, including the watts and dollars saved through each. The most staggering statistic presented was that the United States could wipe out its entire national budget deficit by implementing \$200 billion per year in electricity efficiencies! Dr. Lovins gave a fascinating and challenging presentation.

2. "Methanol — a Win/Win Fuel for Energy and the Environment", was presented by Thomas Reed, from the Colorado School of Mines. Dr. Reed discussed the production, use and politics of methanol.

Methanol could be the ideal future automobile fuel — readily available, inexpensive and pollution-free (unlike gasoline, it doesn't alter the atmosphere's carbon dioxide content). Then why hasn't methanol become a major fuel source? It is caught up in the politics of oil, and the question of when do we run out of oil? — or, when do we run out of money to chase the increasingly expensive (as well as environmentally compromising) sources of oil?

He feels that the 21st century will be the "age of natural gas" since we have a plentiful supply — and since methanol is readily produced from natural gas and makes an efficient automobile fuel, it will replace gasoline. Dr. Reed presents a strong case for methanol as a fuel we can afford, both financially and environmentally.

3. "What's on the Earth Science Information Horizon?", an overview of Geographic Information Systems (computerized mapping), was presented by Gary North of the U.S. Geological Survey.

The U.S.G.S. is moving rapidly towards a system of totally computer generated mapping — data stored in digital format, then computer manipulated through mapping software into

various types of graphic output. How soon? — probably within the next 5 years, according to Mr. North — for example, all maps for the 1990 census will be generated through digital cartographic stations. (He pointed out that the Defense Mapping Agency already has all its maps — worldwide coverage — stored on video disks.)

The ramifications of these developments are mind boggling. All types of data — topographic, historical, soils, geologic, hydrologic, pollution, etc. — can be digitally stored and then manipulated into various map formats to suit users' needs. An elegant example was shown: a computer generated map with soils, geology, hydrology, and pollution sources all superimposed — to help locate sites for future groundwater development for municipal drinking water supplies. This mapping process quickly narrowed down the possible sites to just a few geographic locations.

When will we ("the public") be able to get this information in digital format? This question remains open, so stay tuned.

4. "Energy Related Wastes — Management and Mitigation: Waste Minimization and On-site Cleanup Technology", was presented by John R. Funderburk III, a remedial expert with Hart Crowser, Inc.

Mr. Funderburk gave an excellent overview of waste minimization, reduction and cleanup technologies — and the regulatory and cost factors driving them. He stressed the importance of a waste management plan to control wastes all along the energy production process.

Types of waste minimization/reduction were detailed, including: energy recovery through incineration; metal and solvent recovery; in-plant recycle/reuse; and the use of alternative technologies with less toxic chemicals.

The "waste universe", with its various sources and rousps of wastes, was described and tied in to energy related industries such as municipal power plants. PCB's, typically found as residual wastes from past electric power generation, were an example used to illustrate current cleanup technology options and associated costs.

Mr. Funderburk also gave an outline of the legislative and regulatory incentives which are driving the cleanup market (mainly Superfund and related regulations), as well as the cost incentives which are accelerating waste recovery/reuse (it's simply cheaper to reuse many chemicals than it is to dispose of them as toxic wastes).

Gradually, the use of appropriate technology and waste control practices should significantly

reduce the environmental risks associated with energy production.

Note: This insightful session was taped (Contact SLA for information on how to purchase Conference tapes).

Tuesday, June 14

"Hazardous Materials and Wastes: New Resources for Information Managers"

This session was co-sponsored with Biological Sciences and Environmental Information Divisions, and attendance was strictly standing-room-only.

The featured speaker was Emma McNamara, Program Director at the U.S. Environmental Protection Agency Headquarters Library. She described "The Hazardous Waste Collection Database". Developed as an online catalog of their own collection, it is now available to the public through NTIS (disk format, accessible on IBM PC/AT's with dBaseIII). For more information on "The Hazardous Waste Collection Database", Contact: EPA Headquarters Library reference staff, at (202) 382-5922.

Ms. McNamara then introduced 7 EPA Librarians from different regions throughout the country, and each gave an overview of their library collections and the specialty programs and services they offer.

This was an extremely informative and lively session!

Engineering Division's 20th Anniversary Celebration!

At last — and "what a swell party it was . . ." Revelers toasted the Division's 20 year legacy and future, and were treated to a chocoholics fantasy: chocolate dipped strawberries, the "battle of the chocolate truffles" — featuring Godiva vs/ local truffles, and a beautifully decorated chocolate mousse Anniversary cake (champagne was sipped between "courses" to clear the plate).



Conference Center, Denver.

The piano player provided a delightful ambience, and everyone had an enormously good time! (The celebration even got an honorable mention next day at the SLA Annual Business Meeting.)

Special thanks go to our Anniversary Celebration's generous sponsors: Engineering Information, Inc.; Mead Data Central; and Information Access Company.

Wednesday, June 15

Standards Roundtable

To be reported on by our moderator Pat Ricci in a later issue.

Thursday, June 16

Field Trip: "THE MINING ERA IN COLORADO — YOU ARE THERE"

We had a busy day touring part of the Old West — In Georgetown, center of a booming mining area in the late 19th Century, our walking tour of the historic town included lovely Victorian homes and the Hotel de Paris. A real treat was the ride on the Georgetown Loop, a reconstructed narrow-gauge railroad between Silver Plume and Georgetown, with great views of the Colorado high country. There's a special fascination with the sound and sight of a steam engine — and this route was quite an engineering feat, curving up a steep mountain grade. Along the train route, we stopped to tour inside the workings of an old silver mine for another fascinating glimpse of engineering history.

We had a very worthwhile and pleasant trip.

Field Trip: "Information Handling Services"

Co-sponsored with Sci-Tech Division — see their report on this event.

(STN Editor's Note: This report will appear in the October issue.)

From:

The 1988 Membership Directory of the Engineering Division Special Libraries Association

20th Anniversary Edition

*List of Engineering Division Chairs,
1967 - 1989*

1967-1968

Robert E. Fidoten

1968/1969

Russell Shank

1969/1970	Ada M. Sullivan
1970/1971	Ralph C. Simon
1971/1972	Carmela Carbone
1972/1973	Joe C. Rees
1973/1974	Mary Evalyn Clough
1974/1975	Elizabeth R. Bates
1975/1976	Arlene Louton
1976/1977	Barbara L. Burke
1977/1978	Lydia O. Johnstone
1978/1979	Thomas T. Rogero
1979/1980	Nancy E. Lem
1980/1981	Elizabeth L. Tanner
1981/1982	John R. Moore
1982/1983	Phil Kitchens
1983/1984	L. Susan Hayes
1984/1985	Karen Bell
1985/1986	Linda Mullins
1986/1987	Margaret Bean
1987/1988	Sophia A. Smith
1988/1989	Carol Ann Irons

The following is a draft of the Division's Long Range Plan (LRP). I would like to emphasize that this document is a draft and that your comments and suggestions would be most welcome in finalizing it. Please contact Sophia Smith, the Engineering Division Long Range Plan Committee Chair, 1988-89 if you would like to contribute your thoughts and ideas to our LRP.

**Special Libraries Association
Engineering Division
Long Range Plan
Draft**

June, 1988

Mission Statement: "The objectives of this Division shall be those of the Special Libraries Association: to provide an association of individuals and organizations having a professional, scientific or technical interest in library and information science, especially as these are applied in the recording, retrieval and dissemination of knowledge and information in areas such as the physical, biological, technical and social sciences and the humanities; and to promote and improve the communication, dissemination and use of such information and knowledge for the benefit of libraries or other educational organizations (SLA Engineering Division, Bylaws, Article I, Section 2). The [Engineering] Division encompasses diverse subjects that re-

present the interests of disciplines of engineering practice; it is concerned with the broad spectrum of technical knowledge pertinent to industry, engineers, and engineering education. (Bylaws, Article I, Section 3)."

Objectives: The Division aims to serve its members through conference planning, information dissemination and professional development activities. The Division strives to serve the needs of members able to attend the annual SLA conference as well as those unable to attend the annual conference.

GOALS (arranged by category):

Membership

Goal:	Encourage student member participation
Action Plan:	Offer conference funding to two students and mentor these students at the annual conference
Time Plan:	Annually
Responsibility:	Student Coordinator
Goal:	Encourage new members to become involved in Division activities
Action Plan:	Make phone contact with new members based upon new member questionnaire
Time Plan:	On-going
Responsibility:	Chair-Elect
Goal:	Encourage new members to become involved in Division activities
Action Plan:	Mentor new members at the annual conference
Time Plan:	Annually
Responsibility:	Past Chair, Membership Committee, Director
Goal:	Encourage member participation at a regional level
Action Plan:	Prepare a membership directory with regional and type-of-library indexes
Time Plan:	Annually
Responsibility:	Director
Goal:	Attract new members

Action Plan: Prepare and keep up-to-date Division brochure
Time Plan: Every two years
Responsibility: Public Relations Committee

Responsibility: Chair and Chair-elect
Goal: Encourage members to write articles for ***Sci-Tech News***
Action Plan: Follow up on responses to member survey for members who wanted to write articles to *STN*
Responsibility: ***Sci-Tech News*** Committee

Dissemination of Information

Goal: Keep members abreast of conference and other news
Action Plan: Write articles for ***Sci-Tech News***
Time Plan: Four times/year
Responsibility: Chair
Goal: Publish articles written by Division members about engineering libraries for ***Sci-Tech News***.
Time Plan: Four times/year
Responsibility: ***Sci-Tech News*** Committee
Goal: To give members starting new engineering collections assistance
Action Plan: Prepare a "bibliography of bibliographies" for engineering literature
Time Plan: One year
Responsibility: Publications Committee

Division Organization

Goal: Insure proper utilization of the Division board members
Action Plan: Develop job descriptions for each position. Review responsibilities every three years to make sure they are up-to-date. Change job descriptions when appropriate.
Time Plan: Every three years
Responsibility: Division Board Members
Goal: Keep the Division long range plan and bylaws up-to-date
Action Plan: The long range plan will be updated on a three year schedule: Year 1 — update and distribute member questionnaire; Year 2 — tabulate and analyze results of the questionnaire; Year 3 — update the long range plan and Division bylaws if necessary based upon these results.
Time Plan: On a three year cycle
Responsibility: Past Chair

Professional Development

Goal: Encourage conference participation by members
Action Plan: Provide timely, relevant and interesting conference sessions and activities, provide opportunities for members to present papers at the annual conference and to serve on conference session panels.
Time Plan: On-going

Margaret Bean
Engineering Division
Long Range Planning Committee
Chair (1987-88)

Engineering Division Officers

1988-1989

Chairman

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 Library — 15th Floor
 150 S. Wacker Drive
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 (312) 236-8010 — telecopier

Chairman-Elect

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 Kurt F. Wendt Library
 University of Wisconsin-Madison
 215 N. Randall Avenue
 Madison, WI 53706
 (608) 262-5913

Secretary-Treasurer

G. Lynn Tinsley
Engineering & Science Library
Carnegie-Mellon University
Schenley Park
Pittsburgh, PA 15213
(412) 268-2427

Director

Monica Ertel
Apple Computer Inc.
Corporate Doc. Libr. Svc.
20650 Valley Green Drive
Cupertino, CA 95014
(408) 973-2552

Past Chairman

(Long Range Plan)
Sophia A. Smith
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Cheryl A. Hansen
Triodyne Inc. Consulting Engineers
Information Center
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Niles, IL 60648
(312) 677-4730 Ext. 114

Long Range Planning

(see: Past-Chairman)

Membership Chair

Mary Ann Schmidt
Milwaukee School of Engr.
Walter Schroeder Library
P. O. Box 644
Milwaukee, WI 53201
(414) 277-7182

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345 East 47th Street
New York, NY 10017
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Procedure Manual

(see: Director)