

December 2001

Full Issue: vol. 55, no. 4

Follow this and additional works at: <http://jdc.jefferson.edu/scitechnews>

[Let us know how access to this document benefits you](#)

Recommended Citation

(2001) "Full Issue: vol. 55, no. 4," *Sci-Tech News*: Vol. 55: Iss. 4, Article 16.

Available at: <http://jdc.jefferson.edu/scitechnews/vol55/iss4/16>

This Article is brought to you for free and open access by the Jefferson Digital Commons. The Jefferson Digital Commons is a service of Thomas Jefferson University's [Center for Teaching and Learning \(CTL\)](#). The Commons is a showcase for Jefferson books and journals, peer-reviewed scholarly publications, unique historical collections from the University archives, and teaching tools. The Jefferson Digital Commons allows researchers and interested readers anywhere in the world to learn about and keep up to date with Jefferson scholarship. This article has been accepted for inclusion in *Sci-Tech News* by an authorized administrator of the Jefferson Digital Commons. For more information, please contact: JeffersonDigitalCommons@jefferson.edu.

SCI-TECH NEWS

The Official Bulletin for the Chemistry, Engineering, Materials Research and Manufacturing, Science/Technology, and Transportation Divisions and the Aerospace Section of the Engineering Division of the Special Libraries Association.

Volume 55, Number 4

November 2001



ISSN0036-8059

The INSPEC Database

For Physics, Electrical & Electronics Engineering,
and Computing & Control



The Power of Information

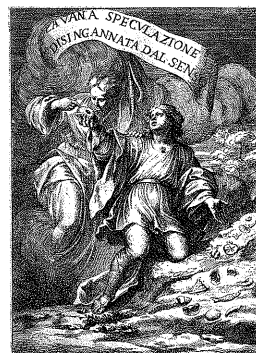
At 6.5 million records and growing weekly, the INSPEC Database is still the most comprehensive English-language database in its fields of coverage, delivering results that are current, precise and relevant. With respected subject experts on its indexing staff, strict quality control practices and meticulous error correction procedures in place, INSPEC ensures that you'll always get the targeted results you expect.

INSPEC offers a wide range of products in both electronic and print formats, with a variety of pricing options to suit both the frequent and casual user - from the individual pay-as-you-go searcher, to multi-campus universities and international corporations.

For more information or a **Free Trial** call 732-321-5575.



INSPEC
THE INSTITUTION OF ELECTRICAL ENGINEERS



Vol. 55, no. 4 November 2001



**Special Libraries
Association**

Feature Articles

- 6 A Call to Action
- 11 I Saw SLA in San Antonio
- 13 The Science Libraries at Carnegie Mellon University:
A Profile

News from the Sponsoring Divisions

- 16 Chemistry Division
- 22 Engineering Division
- 27 Aerospace Section of the Engineering Division
- 31 Materials Research and Manufacturing Division
- 33 Science-Technology Division
- 48 Transportation Division

Departments

- 3 From the Editor
- 55 Web Reviews
- 56 New Science and Technology Journals
- 58 SciTech Book News Reviews
- 78 Directory of Officers

Index of Advertisers

- Advanced Information Consultants.... p.23
- AIAA.... p. 28, 29
- AICHE.... p.42
- ACS.... p.19
- Basch Subscriptions.....p. 10
- CAS..... p.17
- CISTL..... back cover
- EL.... p.39
- Inspec.....inside front cover
- McElroy.....inside back cover
- Ellis Mount..... p.15
- Quest.... p. 21
- Wiley..... p. 5

Prior to 1667, most naturalists believed that fossils, or “figured stones,” grew in the rocks where they were found, and were not at all related to the organisms they often resembled. In 1667, Nicolaus Steno argued convincingly that one kind of fossil, the tonguestone, was actually a fossilized shark’s tooth, and Robert Hooke in the next year made a similar case for ammonites and other fossils. In 1670 Agostino Scilla, on the title page of his treatise on fossils, *La vana speculazione disingannata della senso*, presents an allegory in which Sense, illuminated by the Eye of Reason, demonstrates to Vain Speculation that fossils are indisputably the remains of formerly living things. (Photo and caption courtesy of the Linda Hall Library of Science, Engineering, and Technology, Kansas City, Missouri.)

ISSN 0036-8059
Volume 55, Number 4
November 2001

Editor:
Bonnie A. Osif
Penn State University
University Park, Pennsylvania

Business Manager:
Barbara Parkinson
Chardon, Ohio

Subscription Manager:
Barbara Parkinson
Chardon, Ohio

Advertising Manager:
Bonnie A. Osif
Penn State University
University Park, Pennsylvania

Department Editors

Sci-Tech Book News Reviews

Selector: Ellis Mount
471Emerson Ave.
Teaneck, NJ 07666
EllisMount@cs.com

Web Reviews

Christine L. Holiday
Defense Ammunition Center
McAlester, OK
christine.holiday@dac.army.mil

New Science and Technology Journals;

Editor: Earl Mounts, Alcoa Technical Center
100 Technical Drive, Alcoa Center PA 15069
(412) 337-2396.

David Hooks
MD Robotics Ltd.
Brampton, Ontario
dhooks@mdrobotics.ca

SCI-TECH NEWS (ISSN 0036-8059) is published quarterly (February, May, August, November), available for \$20.00 (U.S. subscribers) and \$22.50 (Foreign subscribers), by the Chemistry, Engineering, Materials Research and Manufacturing, the Science-Technology, and Transportation Divisions and the Aerospace Section of the Engineering Division of the Special Libraries Association, 10919 Wood Hollow Drive, Chardon OH 44024, (440) 285-2327. Periodicals postage paid at State College PA and additional mailing offices. **POSTMASTER:** Send address changes to *Sci-Tech News*, Barbara Sanduleak-Parkinson, 10919 Wood Hollow Drive, Chardon OH 44024, (440) 285-2327. Printed in U.S.A.

Publication Policy: *Sci-Tech News* is the official bulletin of the Chemistry, Engineering, Materials Research and Manufacturing, Science-Technology, and Transportation Divisions and the Aerospace Section of the Engineering Division of the Special Libraries Association. The contents of articles and editorials are not to be construed as being or representing the official position of the sponsoring divisions.

Disclaimer: Special Libraries Association assumes no responsibility for the statements and opinions advanced by the contributors to the Association's publications. Editorial views do not necessarily represent the official position of the Special Libraries Association. Acceptance of an advertisement does not imply endorsement of the product by the Special Libraries Association.

Manuscripts: The editor solicits papers of interest to the community of science and technology-oriented special libraries. Manuscripts of articles should be typed double-space, or sent via E-mail (Microsoft Word or WordPerfect format) to the editor's address: bao@psulias.psu.edu or send by FAX to: (814) 863-5989.

Subscriptions: Special Libraries Association members in the Chemistry, Engineering, Materials Research and Manufacturing, Science-Technology, and Transportation Divisions and the Aerospace Section of the Engineering Division automatically receive subscriptions to *Sci-Tech News*. Their annual subscription fee of \$3.50 is paid from their annual dues to the Special Libraries Association. All others may subscribe for \$20.00 (U.S. subscribers) and \$22.50 (Foreign subscribers). Inquires concerning subscriptions should be sent to the subscription manager.

Address Changes: These should be communicated to either the Special Libraries Association, Membership Department, 1700 18th St., N.W., Washington DC 20009, by those who receive *Sci-Tech News* as a consequence of their membership in one or more of the sponsoring divisions, or to the subscription manager, by all other subscribers.

Offices: *Sci-Tech News*, c/o Barbara Sanduleak-Parkinson, 10919 Wood Hollow Drive, Chardon OH 44024, (440) 285-2327. Editor, Bonnie A. Osif, 325 Hammond Building, University Park PA 16802, (814) 865-3697, E-mail: bao@psulias.psu.edu. Business Manager, Barbara Sanduleak-Parkinson, 10919 Wood Hollow Drive, Chardon OH 44024, (440) 285-2327. Advertising, Bonnie A. Osif, 325 Hammond Building, University Park PA 16802, (814) 865-3697, E-mail: bao@psulias.psu.edu. Subscriptions: Barbara Sanduleak-Parkinson, 10919 Wood Hollow Drive, Chardon OH 44024, (440) 285-2327. Printed by Nittany Valley Offset, State College, PA 16801.

FROM THE EDITOR

When I agreed to become editor of *STN* I did so with no editing experience. I've written my share of conference papers, articles, reports, and book chapters, but editorials? Never. To be honest, as a new editor I was concerned about getting articles to publish, working with the new software, making deadlines, and budgeting. I thought the editorial would be a summary of the issue's contents and a preview of SLA events. Sometimes I might throw in an interesting anecdote; maybe there would be the chance to let the reader know a little about how *STN* is put together.

Recently I scanned three books on editorial writing and learned a great deal. Harry W. Stonecipher (*Editorial and Persuasive Writing*, Mamaroneck, New York: Communications Arts Books, 1990) says editorials are "a 'gyroscope function' serving as a rudder and compass for the reader ... bringing meaning out of the jumble of news and events" (p.14). Well, that doesn't describe the normal role of an *STN* editorial. Chapter Two is titled "The Editorial: An Attempt Toward Defining and Classifying." Sometimes I attempt that. Then we are told "an editorial may be thought of as a journalistic essay that either attempts to (1) inform or explain, (2) persuade or convince, or (3) stimulate insight in an entertaining or humorous manner" (p. 23). Yes, I sometimes try to be humorous, I do try to convince the reader to get involved, and I know I attempt to inform. I'm a librarian; it's in my blood. However, the degree of importance—the burden, shall we say—was not overwhelming. I even asked a colleague if they ever read the editorial and the answer was no, never. So the *STN* editorial was something I wrote to start the issue; hopefully someone would read it. That was my aim. Until September 11. This issue I'm going to write an editorial—a gyroscope, if you will—for myself, at least, because I must.

I can't remember a time when I didn't love science and technology. I was one of those kids who collected insects, birds, bunnies, turtles, and polliwogs—and kept them alive. Other girls wanted Barbie and Ken. I wanted a microscope and telescope. I never got that plastic couple, but I still have my outdated microscope and telescope. I grew a garden and experimented with houseplants. I took my children to every science museum I could find. I never minded the bug collections, animals, or rocks that cluttered the house. They were junior rangers, part of cleanup days. We admired innovative buildings, watched astronauts in training.

As a logical outgrowth of my childhood interests, I earned science degrees, taught biological and physical sciences

at a college, and eventually worked in science and technology libraries. The work never quite took the "gee whiz" from my fascination with both the natural world and manmade achievement. I believe in a Star Trek future—one of phenomenal health care; a safe environment; adequate housing, nutrition, and education; space travel; and astounding technological advances.

Much of this was called into question on September 11. Our technology was turned against us. The strong, majestic World Trade Center was destroyed, the interesting design of the Pentagon marred. And a gentle field in a beautiful area of my adopted state was scarred by a crashed plane. The loss of life was staggering, overwhelmingly numbing. In addition to the horror felt by the vast majority of the world, I had a personal connection. I'm from northern New Jersey. New York City was my city, almost my backyard. I loved going there. Thank goodness I didn't lose anyone, but two of my children live in the city. My daughter was a five-minute walk away from the Towers when the first plane hit and she saw the shower of papers. She saw the buildings that were a part of her everyday life burn. When she came out of class, they were gone. So sure she had been that the fire would be put out and the buildings repaired that she actually thought she was looking from the wrong street. They had to be there; she was mixed up. A second later it hit her, the enormity of what had happened. Not just to buildings, but to people—to hopes, dreams, faith, security. Billions of people changed that day, in different ways, to different degrees.

Dealing with friends calling to check on us; sending e-mails to locate my friends in the Washington area and New York; grieving for a city that I love, a country that I love, and a world in turmoil; praying that everyone had escaped, that there had, please, been enough time; and rescuing my daughter—now a homeless, clothes-less, shaken college student—took up much of my conscious thought. Then we reached northern New Jersey and looked across the river at my favorite skyline, the skyline that would make me sigh and say "there's my city" to my husband every single time I saw it. Then it all became real. There was a smoking gap. Not only an architectural marvel was gone. People. Dreams. Futures. Technology used to destroy. I felt a deep, horrible emptiness and loss.

We took my daughter back to the city five days later. Now I could see the rubble; I could smell the debris—a concrete-y smell. But I also saw the rescue workers, Red Cross workers. I saw the vigil at Union Square, the strength—maybe

a little frightened, weary, but defiantly reclaiming life, reclaiming dreams, rebuilding, if not yet the structures, the spirit of the city, the belief in our twenty-first-century life. The emptiness was filled with hope.

I said earlier I believe in a Star Trek future. The first draft of this editorial read "believed," but it would be a lie. I still believe in that future of technological wonders, human advancement, and achievement for all individuals. Although the events of September 11 and the aftermath brought forth a number of emotions and deep, crushing sadness, it did not destroy my awe of the skyscraper, joy of flying, or belief in people.

The inspirational scenes of the rescue workers at all the crash sites, the courage of the survivors, and the spirit of people around the world did nothing to make me doubt the premise of the career we've chosen as science and technology librarians or the discipline and profession we support. It did not shake my faith or my resolve to strive for a better world. Some do that designing and building towering buildings and aircraft; others by providing lifesaving medical services; still others through the motto "To Serve and to Protect," promoting peace and equality, or providing the information needed for all these endeavors.

This is not a political column. I wouldn't think of trying to address the who, what, or why. It is a human column, an outpouring of personal emotion, of concern, hope, and encouragement. With these and with dialog, we may someday reach that wondrous scientific and technological future of which I, and many others, dream. Not just of beautiful buildings, health and clean environment, but also of peace and respect.

Please read the article by Roberto Sarmiento, a clarion call to us all for action. This article is taken from the text of his presentation at the International Symposium on Transportation Technology Transfer held this summer. While focused on the transportation professional, it has a great deal to say to all of us. This might be an excellent time to read the challenge, to look to the future of our profession. You may want to share this paper with nonlibrarians in your organizations. We also have a summary of the San Antonio conference from T. N. Prakash, winner of the International Sci-Tech Librarian Award. And do note that my editor predecessor, Ellis Mount, has published his first novel, a mystery with a librarian hero title *Mapped for Murder*. We also feature the first in a series of library profiles.

Until next issue, have a safe and wonderful end of the year.
- BONNIE OSIF

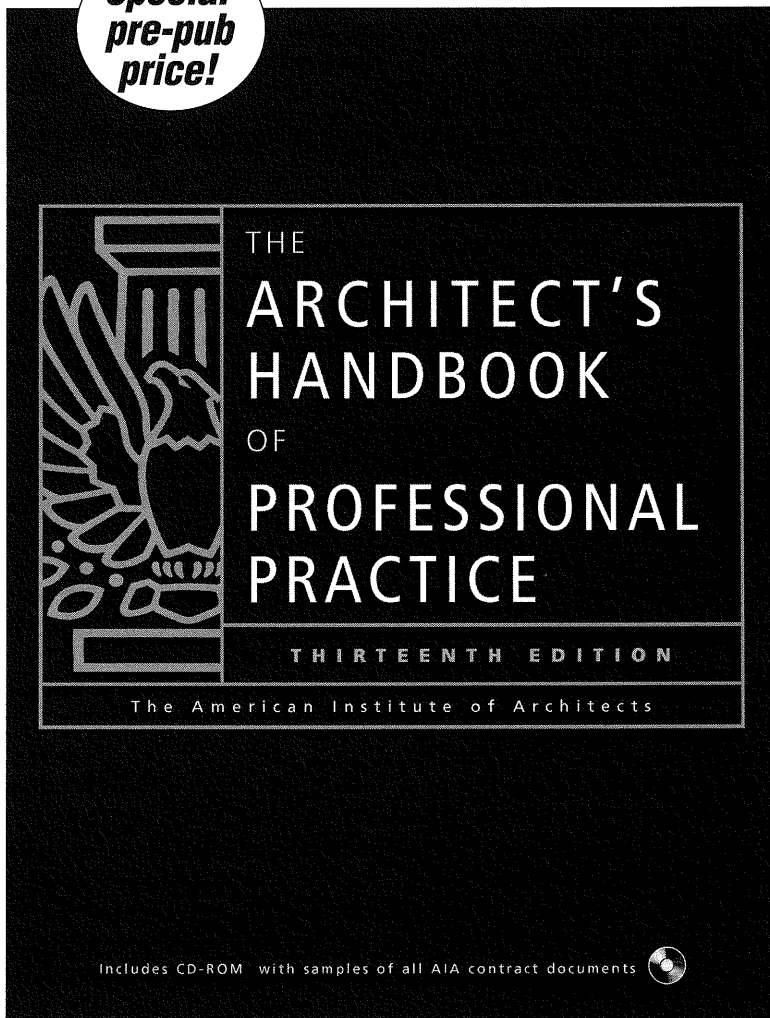
***Putting Knowledge to Work –
Special Libraries Association
Annual Conference, June 2002***

By the time you receive this issue of the *Sci-TechNews*, information on the Transportation Division programs for next year's Annual Conference in Los Angeles will have been submitted to SLA. The planning process began in January of this year at the Winter Meeting, and it continues.

Mark your calendars for these dates: June 8-13, 2002. ***CU - NLA!***

Redefining the practice of architecture

**Special
pre-pub
price!**



A
revolutionary
new
edition!

The Architect's Handbook of Professional Practice has been the definitive guide to architectural practice for almost a century. Now the *Thirteenth Edition* brings that experience to the cutting edge of the profession—with vital information to help architects manage the change from product-based business to a more knowledge/service-oriented approach.

Client-led, service-driven.

Today, best practice means putting the client first—and the new *Handbook* helps architects deliver. Four key sections—on clients, business operations, delivery, and services—offer a wealth of crucial “redefinition” knowledge and tools for designing, building, and maintaining a successful practice.

Authoritative coverage.

Compiled by a team of experts from architecture as well as law, business, and other professions, the *Handbook* is *the* gold standard reference for high-quality professional practice—from understanding how to choose and work with clients to developing expanded, added-value services.

Brand-new format.

The new edition is both easy to use *and* built to last. It features a new CD-ROM with samples of all of the American Institute of Architects' contract documents, plus a sturdy hardcover binding to withstand long-term use.

**Special pre-pub price through 9/30/01: \$195.00 US / \$292.50 CAN
(reg. price \$250.00 US / \$375.50 CAN)**

0-471-41969-9 ■ Cloth w/CD-ROM ■ 1,056 pp. August 2001

Available through your vendor.

 **WILEY**
Independent Thinkers

A CALL TO ACTION

Roberto A. Sarmiento
Head, Transportation Library
Northwestern University

Presented at

Accessing Transportation Information Resources Worldwide
Information Resources: A Tool for Knowledge Management Session
St. Petersburg, Florida, Wednesday, August 1, 2001

Enough of the tired cliché “Information is power”, we all know that. We need to go beyond that. We, the transportation information specialists and managers, need to demonstrate that we know how to use the information, that we know how to trade it and exchange it, and that we can affect deep changes if given the proper tools to disseminate it.

I would like to make a Call to Action to transportation related information specialists, managers, and individuals, as well as government agencies, international organizations, and corporations - to all of us dealing with information as users or producers at the local, national, regional, and hemispheric level.

First, let me call the information specialist to action. It is a call to create and/or expand our networks and communities, not in the physical sense, but in the human and professional context. A call for all of us to be proactive, for us to take the initiative, not to wait for big internal or external “sponsors” or approval or blessings from “upstairs”, but to find efficient ways to develop innovative ways to provide access and exchange information. We need to see our information centers as a local asset while at the same time developing them to become part of a global interconnected network.

A call to document and publish what your information center is doing, whether it is through an e-mail, written report, or oral presentation to people within our organizations or around the world. A call to distribute and disseminate information on our efforts, both successes and failures, to help our colleagues learn from our experiences - to be open to share our knowledge and resources. Through sharing, we will learn more and we will be able to better serve our organizations.

After living in Latin America for more than fourteen years, I developed a strong interest in the training of my Latin American colleagues. I would like to call upon government and international organizations to review and upgrade their commitment to the training of information specialists from developing countries. It should be noted that U.S. librarians must also be included since we also

need it! Big meetings such as ours this week are fine to chart courses, review objectives, develop contacts, and reaffirm our commitment to our stated goals. But the staff in the trenches, the ones that will need to somehow put into practice our policies and try to reach our goals, need to be better trained. We need to provide more hands-on, focused and regional training sessions rather than global, theoretical meetings. We need to ask these specialists what knowledge they need to do the job we are asking them to do and then send someone over there to give it to them.

I would like to call on Asian information specialists and organizations to explore ways to develop joint programs to share information and knowledge with Western countries. I feel this is one of the few places left in the world where our transportation information community is lacking a strong contact base.

As information specialists, we must seize the initiative and make the telephone call, send the email, connect with colleagues and practitioners from near and far when searching for information. Do not give up just because you do not have the information in-house or could not find it on the World Wide Web. There is very little risk in contacting people, but the rewards can be great, as my experience in Panama taught me. The same can be said for the practitioners: contact your colleagues from across town or across the world and then let your information specialist know what you found and how you did it. Share your resources!

One fundamental step to accelerate information exchange is obviously the use of technology: computers, high-speed connections, access to the WWW, etc. And one of the first things an information specialist should do is to automate your information center catalogue. Without having your bibliographic information converted into bits and bytes, access to your data will remain highly localized and somewhat restricted. If already automated, mount it on the web and increase its accessibility. Next, include content specific links or resources that would add value to your web site and will provide benefits to your organization. Think of including high-value content that is not duplicated anywhere. Do not go for the “boutique” effect, where you

have a web page full of pretty things to look at, but nothing of substance. Make sure you have solid content, then advertise! Let your organization and the world know what you have done and how they can benefit from it.

Our world demands for us, the information professionals of the twenty-first century, to think and behave like CEOs, and our information centers to be like corporations. Like any good CEO, we must be totally aware of how we fit in our business world and within our organization. We must know what our strengths and weaknesses are, how to best manage our resources to enhance our capital, and among all other things, how to promote our “company” or information center to maintain and increase our customer base. The old boring days of filing and photocopying are over. To succeed, we must improve ourselves, we must think out of the box. We must strive to be creative and dynamic, either by generating our own new ideas or by “borrowing” them from successful organizations and applying them to our own settings.

Another point very dear to me is that we must seek and develop mutually benefiting partnerships with larger and/or smaller organizations in town or across the globe. We have to realize that perhaps some of the data you consider basic may be of value to someone else and that they may be willing to trade for something you may want. Or perhaps we both have the same problem and if we unite, we can solve it. The key word is partnership; we all need to contribute.

As information professionals:

- We need to commit ourselves to be the best information specialists we can be and provide the best services we can in the most efficient and accurate way.
- We need to think and work outside the box.
- We must become analyzers, interpreters, and managers of knowledge not bystanders or clerks.
- We must challenge ourselves, our information centers, and our parent organizations to provide better services and explore new ones.
- And finally, we have to deliver on our promises.

Now, I would like to talk a little about the part managers and organizations play in my call to action.

Managers and organizations need to reward talent; make sure your information specialists are well paid. For the most part, we all love our jobs but we also need to eat. You need to nourish and support your specialists and centers. Like all human beings, we need to know that we and our contributions to the organization are appreciated and valued. We would like to be treated as partners. You need to

give us the opportunity to take risks; as a matter of fact, every one of us should be taking risks every day. As the former Texas Governor, Ann Richards once said, “If you are not willing to risk your being everyday, then you are not committed to change that flies in the face of the establishment”. Yes, it is scary and yes, sometimes you lose and it hurts. But, if you are not willing to put yourself on the line once in a while, life becomes boring. We must look at risks as opportunities for growth and development.

Managers, you need to realize that your best hope to access information in the digital age is through your local information center- not the World Wide Web and, for most cases, not your college textbooks! Your center, most likely, has the know-how and the contacts to get you the information. You need to realize that most information professionals are born searchers and have had years practicing and honing this skill. Searching comes naturally to most of us; engineers and managers are generally not born searchers. We need each other to do our jobs and to make a living. You need to trust us.

Another important obligation for managers, which I mentioned earlier, is the responsibility to provide adequate training for your information center staff. Without training or exposure to new ideas and methods, we can not perform at our best. Think of us as knives: when brand new, we are shiny and sharp, but after years of heavy use and neglect, we become dull and rusty. But, if periodically sharpened, we can provide you with years of very good service. Training sharpens our minds, and sharpened minds will provide you with better services.

Managers should also look into mentoring their information specialists- taking them under their wings, teaching them about the organization. Don’t just relegate them to their corner of the world and forget about them. Mentoring, sharing, confiding with your librarian about your job and organization will help us better position our information centers and anticipate organizational needs, thus improving efficiency.

We need you, the manager, to be our champion in the organization. You have to speak up for your information center with people at the highest levels. If we are doing something well, you have to let the higher ups know. You need to be our public relations man or women.

I also encourage all managers to have a vision for your information center. What would you like the center to be, to do, and develop? What services should we be providing that would impact the bottom line? You must know what you want. Share this vision with your information professionals. Talk about how to make it come true and then gather the resources to make it happen.

Organizations, you need, and should demand access to, more local and international information. If your information center is not meeting your information needs, you need to figure out why and take the necessary steps to correct this. Be advised, information infrastructure and human capital will not be cheap and the more you want, the more it will cost. So be prepared to pay or do without. But, the bottom line is that you should demand more from your libraries. You should challenge us to do better.

Organizations may also want to support the development of working groups or associations of information professionals at the local, regional, continental or hemispheric level in order to develop a more coordinated approach to information exchange. I encourage you to look at and study the Nordic and Baltic Road Directory Librarians Group as a model of a working regional "consortium" as an example of small, regional, international group of librarians working for a common good.

Another model to consider is the one I am quite proud: the Transportation Division of the Special Libraries Association - a group of about 200 librarians, mostly from the U.S. and Canada, with a strong commitment to international contacts and development. I encourage you to contact us, subscribe to our electronic list, visit our Web page, come to our annual meetings, and help us get stronger and explore ways we can work and develop information exchange programs together.

Some projects I would recommend for development by information centers, either individually or in groups, would include:

- Explore cooperative agreements to establish an efficient and economic interlibrary loan/document delivery service among local or regional information centers, thus providing cheap and reliable access to journal articles and books.
- Produce a union list of journals received by regional institutions and post it on a central web site.
- Develop a union catalog to search online catalogs from several institutions, simultaneously, giving everyone the ability to search across frontiers and time zones.
- Establish collection development policies at the national or regional level so that books or journals are bought by single institutions willing to make them available to others within the "consortium", thus avoiding duplication and saving money.
- Harmonize cataloguing procedures and standards to facilitate efficient transfer of bibliographic data.
- Develop digital projects, such as the scan-

ning of table of contents of unique, worthwhile journals and making them available on the net.

- Explore possibilities of joining TRIS, CEDEX or any other bibliographic utility to index unique journals.

You may have other ideas and I encourage you to develop your own, but would like to stress the need to keep it simple, be realistic and flexible, and continue pushing the envelope. I would like to stress the need to talk, communicate with people - the need to ask, trade and negotiate. You need to develop these skills and put them into practice if you want to move ahead.

So what if your information specialist is not working out after training, nurturing and support? It happens, so, it is better to say goodbye and strive for excellence in your professionals than to continue living with mediocrity. Always be on the lookout for good information specialists. If need be, go ahead and recruit a new one from an organization with a proven successful information center.

Now, if we put all this together we can see that our call to action fits in very well with the knowledge management theme we have been discussing at our meeting for the last couple of days. Let's very briefly explore how information specialists and information centers fit into some knowledge management concepts.

Knowledge management can be defined in several ways, but the definition I would like to use today is: knowledge management is the process to create and share knowledge across an organization to optimize the use of judgment in the attainment of the organization's mission and goals. It is applied to increase effectiveness, responsiveness and produce shorter time cycles.

In order to manage knowledge, we need the technological and human sides. On the technology side, we need computers, networks, high-speed connections, etc. We also need specialized software, databases, search engines, etc. On the human side, we need the engineers, managers, and information specialists.

Knowledge management requires a huge investment in technology, fancy databases, and computers. However, you cannot invest in technology alone and expect a good product. You have to invest in people, especially in the training of your information center staff. Not just training on how to use technology, but training for the development of knowledge processing skills, such as analysis, reasoning and deduction, as well as technical "information" training such as cataloguing, reference, web page design, etc. We need to realize that education in a learning organization is continuous.

Knowledge management stresses the need to be proactive, something we information specialists realize we must be. Also, key factors in the transfer of knowledge are commitment, training, and support - all mentioned above as requirements for managers and organizations to develop good information centers and specialists.

Some knowledge management requirements that fit in very well into our organization's information centers are:

- The creation of knowledge repositories. Organizations need to create, develop, and support information centers, as well as online catalogs, information tools, and resources such as databases, web portals, search engines, etc.
- Improving access and transfer of knowledge. Organizations need to do this not only by improving their software and hardware but also by creating a network of knowledgeable individuals - information specialists fully trained and knowledgeable of what is going on in the organization and in the transportation business.
- Enhancing the knowledge environment. This is achieved by developing an organizational culture or environment that encourages the creation and transfer of knowledge and having the information center become a pivotal part in this transfer.
- Managing knowledge as an asset. Organizations should value their information center collection, Web pages, links, etc., but must also value what is in the heads of their information specialists. The organization must consider the information specialist as a valuable player needed for the overall success of the organization.

Knowledge management must come from above in an organization; it cannot grow and flourish at the information center level. We need the organizational commitment and resources for the information center to do its part. By the same token, knowledge management requires the leadership and professional skills of highly motivated professionals at all levels of the organization; it cannot just be one individual in one department, but a concerted effort throughout. We all need to do our part in the transfer of knowledge, especially information professionals.

Another important concept for knowledge management is that of trust. Trust among individuals is something that develops through time and by working together. The most important way to give and gain trust is by meeting face to face. No matter how many emails, voice mail messages, or videoconferences you receive or attend, we will still need the human connection to develop it. Thus the need for

information specialists to be part of research groups, to be present at meetings, to be part of the organizational team. If we do not gain this trust, we will never be effective, we will never become an effective part of the team.

Another way to develop trust is to encourage your information specialist to participate and grow in professional organizations at the local, regional or international levels. It is at these organizational meetings where contacts and the possibility of working on projects with other information specialists arise. This not only benefits the librarian, but also the organization.

When trust is established, we have more than a network (connected people who acknowledge their connection) but a community, which implies that its members will act in certain ways to help one another. One of our goals these last few days, in my opinion, was to participate in the building of networks and in the very important process of nurturing and strengthening our transportation information community. Your information specialist should be a key component of this great and growing community of ours. Thus, I encourage each one of us, and our organizations, to continue working towards the development of a larger and stronger global transportation exchange network to support our community.

Our goal as information professionals, users and producers is to create a globally wired transportation information community. After meeting so many information specialists and managers from all over the world during the last few days, I feel confident that we are on our way to reach this goal. We have the human resources to achieve it and I encourage everyone to try a little harder; to work a little faster; to be a little smarter in our own information centers to assure that we all do our part to bring this about.

This is my call to action to all of you.

REFERENCES


- Blumentritt, R. and Johnston, R. (1999). 'Towards a strategy for knowledge management'. *Technology Analysis & Strategic Management*, 11, 3, 287-300.
- Cohen, D. and Prusak, L. (2001). *In Good Company: How Social Capital Makes Organizations Work*. Boston, MA: Harvard Business School Press.
- Cronin, B. (1998). 'Information professionals in the digital age'. *International Information & Library Review*, 30, 37-50.
- Cross, R. and Baird, L. (2000). 'Technology is not enough: improving performance by building organizational memory'. *Sloan Management Review*, Spring, 69-78.
- Davenport, T. H. and Prusak, L. (1998). *Working Knowledge: How Organizations Manage What They Know*. Boston, MA: Harvard Business School Press.

- De Cagna, J. (2001). 'Keeping good company: a conversation with Larry Prusak'. *Information Outlook*, 5, 5, 36-43.
- Dixon, N. M. (2001). 'What is true?: looking at the validity of shared knowledge'. *Information Outlook*, 5, 5, 32-34.
- Drucker, P. F. (1999). 'Managing oneself'. *Harvard Business Review*, March-April, 65-74.
- Earl, M. (1994). 'Knowledge as strategy: reflections on Skandia International and Shorko Films' in *Strategic Information Systems: A European Perspective*. N.p.: John Wiley & Sons, Ltd.
- Edwards O. (2000). 'Faux love or money'. *Forbes ASAP*, August 21, 200.
- Giffiths, J. M. and King, D. W. (2001). 'Top 10 reasons to use a special library'. *Informant*, March, 20-21.
- Jackson, M. E. (2000). 'Meeting the challenges of international lending and document supply: learning from the Global Resources Program'. *Interlending & Document Supply*, 28, 2, 279-85.
- Krackhardt, D. and Hanson, J. R. (1993). 'Informal networks: the company behind the chart'. *Harvard Business Review*, July-August, 104-111.
- Lamb, C. M. (2001). 'Creating a collaborative environment: The human element'. *Information Outlook*, 5, 5, 21-25.
- Lyles, M. A. and Schwenk, C. R. (1992). 'Top management, strategy and organizational knowledge structures'. *Journal of Management Studies*, 29, 2, 155-174.
- Mak, C. ((2001). 'OCLC works with libraries and vendors to implement international standard for ILL'. *OCLC Newsletter*, March/April, 12-13.
- Marshall, L. (1997). 'Facilitating knowledge management and knowledge sharing: new opportunities for information professionals'. *Online*, September-October, 92-98.
- McQueen, H. (2001). *Maximizing the Power of Your Intranet: Procurement, Content Management, eCommunications*. N.p.: Inmagic, Inc.
- Peters, T. (2000). 'A brawl with no rules'. *Forbes ASAP*, February 21, 155.
- Townley, C. T. (2001). 'Knowledge management and academic libraries'. *College & Research Libraries*, January, 44-55.

REMEMBER WHEN?

Subscription Agencies were *service* businesses and your account was as important as any other account your agency handled?

Basch Subscriptions, Inc. provides serial *service* that saves you and your library both time and money. Any agency will take your order, only **Basch Subscriptions, Inc.** will prove its commitment every day with the personal service you deserve.

 Services for Libraries and Publishers
Basch Subscriptions, Inc.

88 N. Main Street
Concord, NH 03301

Phone: (603) 229-0662

Fax: (603) 226-9443

E-Mail: Subs@Basch.com

I SAW SLA IN SAN ANTONIO

Dr.T.N.Prakash

Chief Manager, Information Technology
Aeronautical Development Agency
Post Box No.1718, Bangalore –560017, India

The Special Library Association is one of the greatest associations of librarians having maximum membership representing almost all countries. The important event of this association is its annual conference, which facilitates all the librarians to meet in one place. This annual meeting is an opportunity to exchange views and network among us. I never dreamed that I would be attending such a meeting, which was made possible by the Science and Technology Division of the SLA.

I was extremely happy that I was invited by the SLA to attend and receive the International Librarians Award at its 92nd annual conference at San Antonio, Texas, USA. I planned well in advance for my travel from India to USA. The travel was a great experience of meeting people on the flight and being in the sky for a long time. I left India on June 7, 2001, and the travel took nearly 35 hours to reach San Antonio from Bangalore. I traveled by United Airlines, which was offering a discounted fare, and found it a comfortable flight. My journey started from Bangalore via New Delhi, London, and Chicago to San Antonio.

I landed at San Antonio at 23.30 hrs. In a new place, I was a little confused, but the welcome by member of S&T Division Ms. Janifer Meldrum and her husband made me feel at home. I reached my accommodation with them and settled comfortably. I am indeed grateful to them.

The next day, June 9, 2001 I traveled by trolley, a local transport, saw San Antonio and reached the Convention Center. The annual conference was scheduled here. The Convention Center, a huge nice building surrounded by the Riverwalk, could accommodate thousands of people. The registration counter was organized so well there was no problem for registration. The staff of SLA guided us and made us feel comfortable.

The conference program and other materials received at registration counter were very useful. The program contained all the sessions' information as well as general useful information and was a self-guide. I could plan systematically my entire program.

This was the first international conference I have attended

and I was observing everything. The conference was very well organized, systematic and punctual. I had planned well in advance the programs to be attended. Most of the programs I attended were of the Science and Technology Division, to which I belong. I also attended other Divisions' programs which were of interest to me. I had planned in advance to attend various programs, but had to change some of them when the conference was in progress. Many a time I had to leave in the middle of a session to attend other events. This is because of overlapping sessions and my interest was to cover the maximum with limited time. I felt that I should have attended more programs since many more were of interest to me, but I had to skip them due to a shortage of time. This happened because this was my first international conference and I am quite new to organizing in such a way that maximum coverage is possible in the time slot available.



These sessions helped me in establishing the network among the librarians and I learned many new things. The open sessions, the group discussions, and decision making were of interest in these sessions. I got a better idea of how to organize the seminars. This has enriched my knowledge. I established contact with number of librarians and registered with a number of information providers who are of direct use to my organization.

The subject of the conference "An Information Odyssey: Seizing the Competitive Advantage," was timely and opened my eyes to leadership in the information world. Besides being educational, this provided me an opportunity to learn the technology. The session of the first-time conference attendees where I met all the newcomers helped to exchange our views. The opening general session and the closing general sessions created an opportunity to meet all the librarians under one roof. The award ceremony by the S&T Division, where I received my International Librarians Award, was very important to me and made me feel great. Here I could interact with everyone and became very close with all the members of the S&T division. I am grateful to Ms. Nathalie Thirlwall, the chair of the S&T Division award committee for selecting me for the award for the year 2001 and honoring me on

this occasion. This event will remain in my memory forever. The financial support by the S&T division, which helped with my travel, is acknowledged gratefully.

The information board set behind the registration counter was important for communicating among ourselves. The computers had complete information on all attendees, and helped in communicating with each other easily and quickly. Many desks around the registration counter, including the information counter were of use not only for guidance to conference technical sessions but also for many general information and queries.

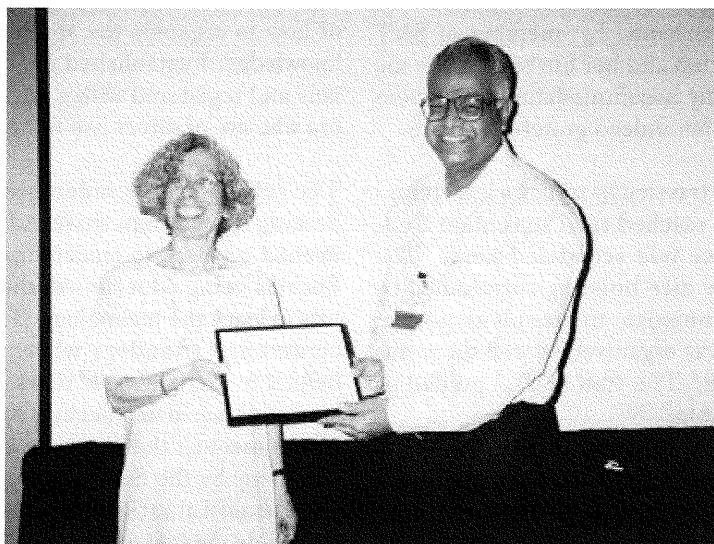
The cyber connection provided by Lexis-Nexis was very useful for my e-mail communication. Even though I was far away from my country, I could attend to some of my official work online, communicate with my family, and keep in touch with what was happening. This has made me feel at home and happy. I could talk to India through e-mail without incurring any expense.

The INFO-EXPO was a very appropriate name for the exhibition. This was organized very attractively with a good coverage. This activity is important for any conference. Here I was able to interact and practically learn many things which are quite new to me. A number of products were introduced to me and the exhibitors provided good information with brochures of their products. They also took our addresses for future communication. I came across a number of new companies displaying their products that were important to me. This exhibition area provided me an opportunity to meet a number of people and establish contact. The only thing I felt is that the time

was not sufficient to cover all the exhibitors and spend enough time with them. The effort they have put in to organize so nicely deserves appreciation. The contact remains with me for my information requirements of the future. The entrance of the exhibition hall was occupied by our SLA market place, which helped me to know all the products of SLA and the books published by them. I could interact with the staff of SLA to know more about the Association. The offers of discount for the books were very helpful.

The tour organized by SLA was an entertainment for us. We, the librarians from different countries, could see together the historical city, its famous Alamo, Riverwalk, etc. The group became closer in this tour. The tour guide gave us the full picture of the historical events of the city. We saw San Antonio fully and comfortably in a nice bus. Later we went on a boat tour along the Riverwalk, a famous landmark of the city. I enjoyed both trips.

The Convention Center is a comfortable building for such a huge conference and SLA deserves our appreciation for organizing in the best manner. The conference, from registration to the conclusion, was very well organized and systematically conducted without any problem. I have learned more than what I expected in this conference. This has benefited me personally, enriched my knowledge, which in turn helps my organization and also the library associations in India. We are proud to be the members of SLA and this event is a feather in the cap of the librarians. I wish to attend again. To conclude, I say the USA is a great country with the great people who made us feel great.



Nathalie Thirkwall presenting the award to Dr. Prakash

Library Profile: The Science Libraries at Carnegie Mellon University

The Professional Staff:

G. Lynn Berard, Head, Science Libraries
Diane Covington, Chemistry and Biology Librarian
Melissa J. Harvey, Computer Science Librarian
Matthew R. Marsteller, Physics and Math Librarian
Lisa M. McCartney, Engineering and Science Librarian

Carnegie Mellon is a national research university of about 7,500 students and 3,000 faculty, research and administrative staff. The institution was founded in 1900 in Pittsburgh by industrialist and philanthropist Andrew Carnegie. The University today consists of seven colleges and schools and the Science Libraries mainly serve two, the Mellon College of Science and the Carnegie Institute of Technology (the Engineering School). The Engineering & Science Library and The Mellon Institute Library officially joined forces in 2000 to create a cooperative unit known as the Science Libraries.

Recently rated the “Most Wired University” for a second year in a row, Carnegie Mellon truly is a place that has incorporated network technologies into campus life. As can be expected, the University Library Systems’ mission is to “go digital” in the building of our collections and to lead in the development of tools and techniques needed to achieve the digital future. In this profile of our science libraries, we would like to introduce you to the physical facilities and to highlight some of the special services that we offer.

The Engineering & Science Library is situated in Wean Hall, centrally located for most of its clientele (see photo). The collection supports study and research in computer science; chemical, civil, computer, electrical, and mechanical engineering; environmental topics; mathematics; physics; and materials science engineering; robotics; and related fields including astronomy, pure chemistry, and medicine. The paper based collection numbers approximately 300,000 items which include books, journals, and technical reports and we have a growing digital collection as well (<http://www.library.cmu.edu>).

We are a full service library and provide reference assistance most days from 9 a.m. to 9 p.m., with email refer-

ence service 24/7. While undergraduates come here to study and to utilize reserve materials, graduate students and researchers keep us busy at the reference desk. We often go into the classroom to do library instruction, and we are always on the look out for new digital resources to explore.

The Mellon Institute Library resides in the Mellon Institute located at 4400 Fifth Avenue in Pittsburgh, Pennsylvania. This building was erected in 1937. The library was

established in 1913 as the Mellon Research Institute Library, supporting industrial researchers in chemistry, with an appropriation of \$20,000 to invest in chemical reference books and chemical and technical journals. In 1967, Mellon Institute merged with Carnegie Institute of Technology to form Carnegie Mellon University, making the library a part of the University Library System. Mellon Institute is best known for its air pollution and industrial hygiene collection. This “special” library’s main clientele today are the Chemistry and Biology departments of the Mellon College of Science, supporting the University’s curriculum in the areas of study and research in chemistry, biochemistry, bio-

physics, and biological sciences. The library stacks, consisting of three floors, hold the pre-1992 bound issues of journals and the book collection, for a total of more than 92,000 items.

The Main Reading Room (see photo on p. 14) of the library maintains its original décor and the university strives to maintain it. Computers and carpeting are the only changes to the original setting. This room houses the current bound volumes of the periodical collection from 1992- present and serves as the reference and public service area for patrons.



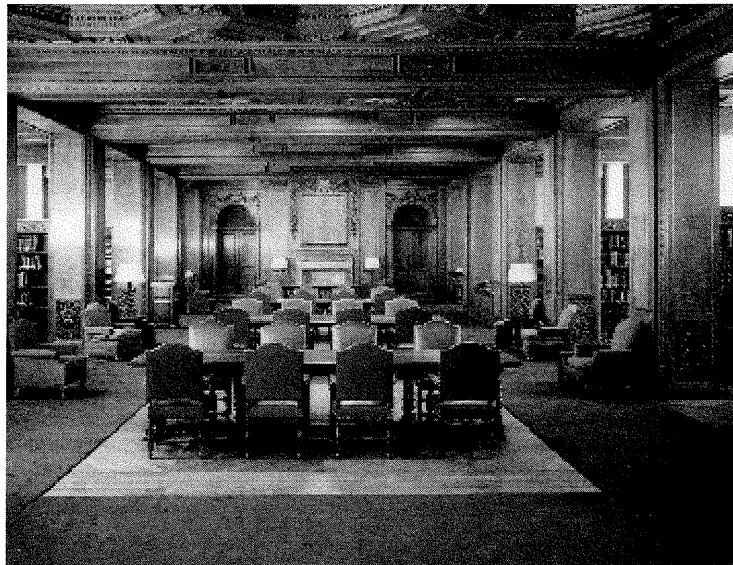
Digital Initiatives

The Carnegie Mellon University Libraries, including the Science Libraries, are forging ahead with the vision of a digital environment for library services. The directive to 'go digital,' handed down by Carnegie Mellon president, Jared Cohen, presently takes many forms, ensuring the libraries are moving toward a strong digital environment.

One project currently in development is the Universal Library, the vision of which is "access to all human knowledge - anytime, anywhere." It reminds one of the ancient Alexandria Library only in electronic format. This is certainly no small undertaking and will be an ongoing endeavor. The Million Book Project is one of the initiatives within the Universal Library. Even now there are approximately 1,000 books available digitally through the Universal Library. Feel free to visit the Universal Library at <http://www.ul.cs.cmu.edu> and catch a glimpse of the digital age of library collections.

The Science Libraries also are consciously acquiring greater amounts of materials in electronic format to build our digital holdings. Though we still have CD-ROM tools, some 'permanently' on public computers and others available for circulation, we are now actively opting to build our journal and, to a lesser extent, reference collections with Internet tools. For instance, just this year, we shifted to digital format for all of our IEEE subscriptions with IEEEExplore and cancelled the print. It has been very well received (and, so far, preferred) by our patrons. Also, links on the University Libraries home page give patrons the option of a Virtual Reference Shelf with online dictionaries, encyclopedias, etc. or Subject Research Guides listing subject specific links to materials for such things as patents and trademarks or standards.

Digital initiatives have transformed our inter-library loan service as well. Patrons now submit requests for items via ILLiad, the InterLibrary Loan Internet accessible database. This means more accurate tracking of our requests and processing time as well as elimination of paper request submissions! In addition, Ariel software allows us to electronically send and receive journal articles in PDF format



that quickly land in a patron's email account. This software is very beneficial for the Science Libraries as they receive a high volume of requests for journal and conference proceeding articles for both lending and borrowing purposes. Certainly, relying on digital formats hits a snag when equipment is out of commission, but the benefits of a digital environment far outweigh the alternatives. Our patrons seem to agree.

Chat Service

The librarians of the Science Libraries staff seven of the twenty hours per week of a chat reference service offered Monday through Friday from 1pm to 5pm. Carnegie Mellon began providing this service on October 2, 2000. We currently use LivePerson's Web contact center software for providing chat reference service, but a Chat Reference Task Force is reviewing other possibilities. The impact on us has been an additional one to two hours per week of reference duty. We have each stepped forward to provide a scheduled hour of chat reference per week, with two of the librarians providing a second hour on a temporary basis. Two temporary graduate student employees from the nearby University of Pittsburgh School of Information Sciences will staff the two extra hours when we feel they are ready.

Providing the chat reference service has brought additional challenges. Because the person providing the chat reference service is the sole provider during their hour, we have

to field questions from any subject area. This has caused the University Libraries as a whole to consider cross-training. Currently the librarians of the Science Libraries are preparing the first of the reference cross-training sessions. We intend to let our colleagues in the other libraries know about the more heavily used reference tools, the basic databases, and the new digital reference tools we've been acquiring.

Technical Report Collection

Carnegie Mellon Libraries have developed a reputation for our outstanding technical report collection. These reports are housed in the Engineering & Science Library. We have the second largest computer science technical report col-

lection in the nation. Our collection currently includes approximately 68,000 reports (66,000 individual titles)

Our technical report collection dates back to 1966, covering the history of modern computer science. Our collection is especially distinct for two major reasons:

- We have the largest nationwide collection of international computer science reports, totaling about 60 percent of our collection.

- We provide the greatest degree of access to our reports. We are the only library system to provide full cataloging of technical reports, including subject headings, in a nationwide catalog such as OCLC.

The international computer science community has been especially grateful for the ability to locate and borrow reports through interlibrary loan from Carnegie Mellon that cannot be located electronically or by other means. We hope you will visit our library catalog at: <http://www.library.cmu.edu>. You can limit your search to technical reports by performing a "complex search" and choosing "TECH-REPT" as the location. If you have any questions, feel free to contact: Missy Harvey, Computer Science Librarian, harvey@andrew.cmu.edu.

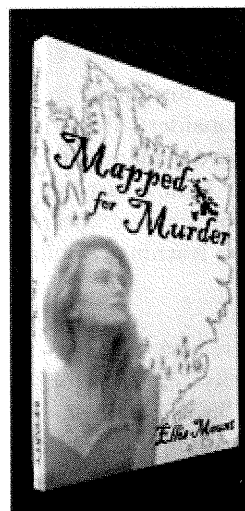
Papers of the Co-Founders of Artificial Intelligence Now Online

The Allen Newell Collection and the Herbert Simon Collection represent the work of pioneers in the fields of artificial intelligence and cognitive science. It's a rare opportunity to browse through the papers of renowned scientists whose work has had such a major influence on the state of the field today. The University Libraries now offers electronic access to portions of the research and teaching papers of Allen Newell and Herbert Simon. You can search, browse and view more than 200,000 digital images from the collections.

Newell and Simon played a pivotal role in creating Carnegie Mellon's School of Computer Science and elevating it to world-class status. The fields of artificial intelligence and cognitive science emerged in part from their idea that computers could process symbols as well as numbers and solve problems in the same way humans do if programmed properly. In the 1960s Newell and Simon created computer models of human problem solving which became significant in shaping the "cognitive revolution" in psychology. So take a few minutes and have a look at the collections at <http://heinz1.library.cmu.edu/Newell/> and <http://heinz1.library.cmu.edu/Simon/>. We hope you find the collections to be noteworthy, interesting, and helpful with your research. We also hope you will develop an appreciation for two men who left an important mark on our institution and whose influence continues today.

The 21st century is an exciting time to be an information professional. The staff of the Science Libraries invite you to come visit us, in person or electronically, and share with us our dream of providing information digitally. Our door is always open.

A New Mystery Novel by Ellis Mount



Mapped for Murder

A special librarian in New York City and her husband find a valuable Viking map, which a crafty villain seeks to steal. Their intelligence and courage enable them to win out despite murderous attacks.

**Available from
INFINITY PUBLISHING
Call toll free 877-289-2865**

\$13.95 + \$3.95(s&h)

CHEMISTRY DIVISION

The Chemistry Division is concerned with chemistry and chemical technology, and the economics, educational advances, and information handling of developments in the field of chemistry and related subjects

FROM THE CHAIR

M J DUNKER

As I prepare this, Nancy Simons & I are working on plans for next year's annual conference to be held in Los Angeles on June 8-13, 2002 and trying to meet a few deadlines. By the time you read this, we'll have a full exciting schedule in the works and will be taking a short breather before the next round in January.

One of the highlights will be the Trisociety Symposium, a joint effort of the Chemical Information Division of ACS, the Scientific & Technical Information Special Group of ASIST, and the SLA Chemistry Division. You'll find the call for papers in this issue. This symposium's theme will be "Electronic Chemistry

Collections: Dealing with Chemistry Resources in Electronic Formats." I hope you will consider submitting an abstract. It would be wonderful to have so many great ideas that we have a hard time choosing. I know that there are many talented people in this Division who are working on these types of projects. Sharing your learnings would be a great help to all of us.

I know that there are people out there who would like to be more active in the Division. I think you are wonderful! We'll try to find you something to do. Here's one idea - we'd really like to have more articles to print in this publication or put up on our Web version. Now I can hear many of you gasping and saying "but I hate to write" - I often feel the same way, which is why I usually wait until the last minute. Many of you have loads of information and experience you can share. Perhaps it could be about your top five Web sites/sources for chemical pricing questions. Your favorite tips on *STN*, Dialog or search system of your choice. How you handle the influx of questions of the organic chemistry students. Perhaps a profile of your library/information center. And it doesn't all have to be practical. If

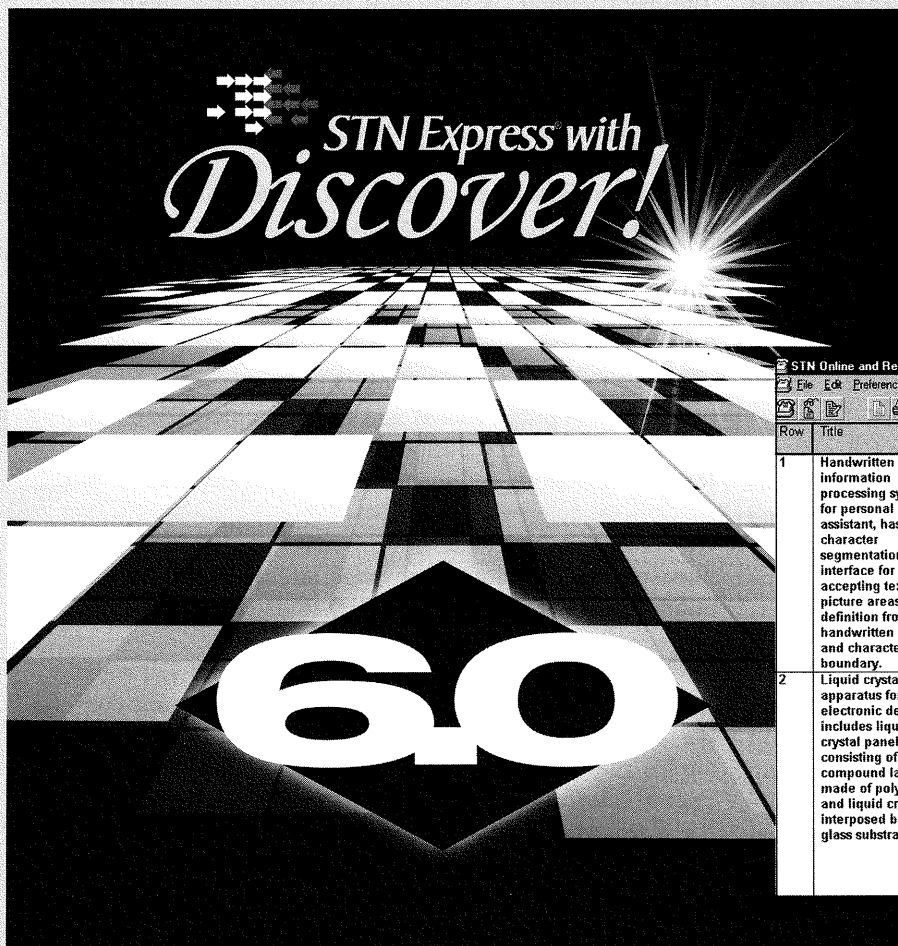


you have an interest in scientific history, how about sharing something interesting you've come across? Since the next conference is in L.A., my mind turned to Hollywood - how has chemistry influenced the film industry? (Somebody had to invent Technicolor!) Think about make up or special effects, or how chemists are portrayed in movies. The list goes on. If you are interested in contributing, please drop a note to our newsletter editor, Jim Oliver at oliver@msu.edu

And it's never too early to start thinking about whether you'd like to be an officer. Dana Roth is looking for nominations for Chair-elect and Treasurer. If you don't want to do it yourself, perhaps you can recommend someone who will do a great job.

If neither of these ideas tickle your fancy, please let me know what would. Suzanne Fedunok, our Chair-elect, and I would both love to hear ideas about what the Division can do for the membership. It would be nice (but not necessary) if you can give us suggestions on implementing those ideas. Since the Chemistry Division really is as strong and as active as its members, please give some serious thought to what the Division can do for you and let me know your ideas. We may not be able to do them all, but we can see what can be done.

If your search results look good, you look good.



New-V6.0

- the Table Tool
- the Report Tool
- the Predefined Reports feature

STN Online and Results - Table (Untitled)

Row	Title	Patent Assignee	Patent Information	Graphics
1	Handwritten information processing system for personal digital assistant, has character segmentation user interface for accepting text and picture areas definition from user, handwritten line and character boundary.	(IBM) INT BUSINESS MACHINES CORP; (IBM) IBM CORP	2000227941 A 20000815 (200054) * 9p 606K009-62 CN 1260526 A 20000719 (200055) 606F003-02	
2	Liquid crystal apparatus for electronic device, includes liquid crystal panel consisting of compound layer made of polymer and liquid crystal interposed between glass substrate.	(SHI) SEIKO EPSON CORP	JP 2000227586 A 20000815 (200054) * 10p 602F001-1334	

Get the most from scientific databases – **STN Express with Discover!** Version 6.0 offers new post processing tools to present data in the most effective form:

- **Table Tool** – helps you create a table of data graphics and chemical structures from STN answer sets for easy analysis of search results;
- **Report Tool** – helps you create customized, easily readable reports from search results;
- **Predefined Reports feature** – helps you to create patent reports with a professional-looking predefined format.

Using STN Express to search the wealth of scientific databases on STN, you'll quickly identify the literature and patents vital to your research. And you can link to the full-text article or patent on the Web!

To add this great tool to your desktop, visit our Web site at

www.cas.org/ONLINE/STN/discover.html

Or contact your STN Service Center:

In Europe:

STN International
c/o FIZ Karlsruhe
Phone: (+49) 7247-808-555
Telefax: (+49) 7247-808-259
E-mail: helpdesk@fiz-karlsruhe.de
Internet: www.fiz-karlsruhe.de

In Japan:

Japan Association for International
Chemical Information (JAICI)
Phone: (03) 5978 3601
Telefax: (03) 5978 3600
E-mail: cas-stn@jaici.or.jp
Internet: www.jaici.or.jp

Japan Science and Technology Corporation (JST)

Phone: (03) 5214-8414
Telefax: (03) 5214-8410
E-mail: helpdesk@mr.jst.go.jp
Internet: pr.jst.go.jp/db/STN/index.html

Elsewhere:

Chemical Abstracts Service (CAS)
Phone: 800-753-4227, 614-447-3700
Telefax: 614-447-3751
E-mail: help@cas.org
Internet: www.cas.org



CAS is a division of the
American Chemical Society®

A Note From the Past Chair

In moving from Chair to Past-Chair, I wanted to express my appreciation for the wonderful support I received this past year from the Division's Board and Functionaries, as well as from the volunteers who worked on the Annual Conference program. Marilyn Dunker, who is a great incoming Chair, and Susanne Redalje, who spent untold hours on the redesign of the Division's Web page and the electronic newsletter, are deserving of special acknowledgment.

I was also very encouraged to have had so many sponsors and volunteers participate in making the annual conference program a real success.

The program began on Sunday with our CE course, "Chemistry and Chemical Librarianship for Non-chemists" presented by Bartow Culp, Judith Currano and Dana Roth. This was followed by a Board meeting (sponsored by ACS Publications, and moderated by Dana Roth), a no-host dinner on the Riverwalk, and the ACS/CAS Dessert Reception (sponsored by ACS Publications and CAS).

Monday began with the Annual Business Meeting/Breakfast (sponsored by the Royal Society of Chemistry), and was followed by the Academic Science and Engineering Roundtable (sponsored by ACS Publications and moderated/reported by Jennifer Kostelnik), the well-attended poster session on "Innovative Web Pages" (sponsored by ACS Publications and moderated/reported by Ted Baldwin), the Chemistry Vendor session (sponsored by CAS, moderated by Roger Beckman and reported by Vicky Gray), and the Corporate Roundtable (sponsored by the RSC, moderated by Marilyn Dunker).

Tuesday's Winner Circle of Best Web Sites (sponsored by ACS Publications and moderated/reported by Claudia Lascar) included a dynamite presentation by Judith Currano. The "GIS, Toxicology and Agriculture" program co-sponsored by the Chemistry Division, won an award for Broad Category Appeal and was followed by "Chemistry Business Resources" (sponsored by John Wiley & Sons, moderated by Kevin Lindstrom and reported by Vicky Gray).

Wednesday featured a Board meeting (sponsored by Academic Press and moderated by Marilyn Dunker), the co-sponsored session "Crystallographic Databases" (sponsored by ACS publications) and the "Chemical Reaction Databases" session (co-moderated by Gary Wiggins and Jennifer Kostelnik, and reported by Robert Powers).

We are in the process of posting many of the presentations on the Division's web page and appropriate announcements will be made on CHMINF-L.

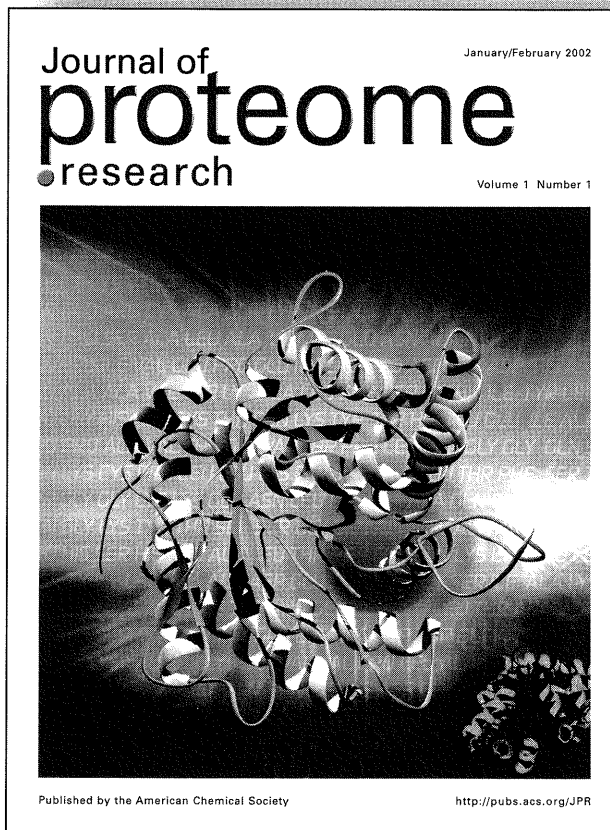
In closing, I would strongly encourage those of you who were not able to volunteer this year to seriously consider the opportunities for next year's meeting (which also includes the Trisociety (ACS CINF/SLA CHEM/ASIST Special Interest Group on STI) Symposium in Los Angeles. It will give you an excellent opportunity to work with an outstanding group of librarians and help you get quite a bit more out of your attendance.

Dana L. Roth
Millikan Library / Caltech 1-32
1200 E. California Blvd. Pasadena, CA 91125
626-395-6423 fax 626-792-7540
dzrplib@library.caltech.edu
<http://library.caltech.edu/collections/chemistry.htm>

125 Years of Great Chemistry

New in 2002!

ACS Publications is pleased to announce the *Journal of Proteome Research*, a new journal published by the American Chemical Society.



Edited by William S. Hancock, *Thermo Finnigan*

Volume 1, 6 issues

ISSN: 1535-3893 (Print) • ISSN: 1535-3307 (Web)

\$725 North America; \$750 Outside North America

<http://pubs.acs.org/JPR>

Primary Topics

- New approaches to sample preparation, including 2-D gels and chromatographic techniques
- Advancements in high-throughput protein identification and analysis
- Array-based measurements
- Structural genomics data related to protein function
- Research on quantitative and structural analysis of proteins and their post-translational modifications
- Metabolic and signal pathway analysis, including metabolomics and peptidomics
- Protein-protein, protein-DNA, and protein-small molecule interactions
- Computational approaches to predict protein function
- Use of bioinformatics/ cheminformatics to mine and analyze data
- New tools in proteomic analysis
- Studies on proteomics with an impact on the understanding of disease, diagnosis, and medicine

Promoting a multi-disciplinary approach to the understanding of biological systems, this new research journal from the ACS will integrate the fields of chemistry, biology, applied physics, and computer science.

Journal of Proteome Research will publish original research papers, communications, technical notes, perspectives, and reviews showcasing the advancement of science in the post-genomic era.

In addition to these peer-reviewed submissions, the *Journal of Proteome Research* will present research highlights, current events, book and software reviews, plus a calendar of upcoming short courses and symposia of interest to proteomic scientists.

Included in the following ACS Package Plans: ACS Biochemistry & Biotechnology, ACS Pharmaceuticals, and ACS All Publications.
For more information and Web subscription rates, please contact your Agent or an ACS Account Manager

ACS PUBLICATIONS

HIGH QUALITY. HIGH IMPACT.

<http://pubs.acs.org>

Chemistry Division – Member Profile Marilynn Dunker

Because we see each other so seldom, we do not always get the opportunity to know much about the other members of our Division. In each future edition of the Chemistry Division Member News we hope to be able to publish one or two member profiles that will introduce some of our members – new, veteran, and leaders of the Division. We are kicking off this series with a profile of the current Chair, Marilynn Dunker.

OCCUPATION: Information Scientist for the Procter & Gamble Company

PETS: Two Cats – Larry & Shemp. I'm not a Three Stooges fan but I was too lazy to change their names when I adopted them.

FAVORITE ACTIVITY: Reading – what else do you expect?

FAVORITE FOOD / FOOD GROUP: Pretty much a tie between bread, chocolate and caramels.

WHAT I CONSIDER MY GREATEST ACCOMPLISHMENT: hasn't happened yet.

MY FAVORITE WEBSITE: for fun is www.topfive.com — because everyone needs a daily laugh.

BEST VACATION I'VE EVER TAKEN: was a weeklong cruise of the Mediterranean that started with 3 days in Monte Carlo.

LAST GOOD BOOK I READ: *Seven Up* by Janet Evanovich

IF I WEREN'T IN MY CURRENT POSITION, I'D BE: in graduate school though I'm not sure what I would study. I've always wanted a PhD so I could open Dr. Dunker's Donut Den

I DECIDED TO GO TO LIBRARY SCHOOL BECAUSE: The part of my first job as a chemical engineer I enjoyed was a patent search and I've always loved books. It may also be genetic – both my sisters are librarians.

THE ONE THING I REALLY LOVE TO DO AT WORK IS: find that tidbit of information that is really needed and no one else could find.

I AM A MEMBER OF SLA BECAUSE: I've always thought it was important to join professional organization (yes, I wanted to get a job when I finished graduate school). The reason I stay in SLA is because I always manage to learn something and have met many wonderful people who have been very helpful.

Chemistry Division Welcomes the Following New Members

June - September 2001

Sonya L Donoghue
University of Auckland Science Library
Auckland, New Zealand
Phone: 649373759
s.donoghue@auckland.ac.nz

Kristian Kurz
Thieme Publishers
New York, NY
Phone: 1-212-584-4667
kkurz@thieme.com

Kathryn C. Stapleford
Air Products & Chemicals Inc
Allentown, PA
Phone: 1-610-481-8520
staplekc@apci.com

William F. Bartelt
Chemical Abstracts Service
Worthington, OH
Phone: 1-614-888-8217
wbartelt@cas.org

CALL FOR PAPERS

The **7th Quadrennial Trisociety Symposium*** will be held Sunday, June 9, 2002 during the Special Libraries Association Annual Conference in Los Angeles.

The theme for the symposium will be:

Electronic Chemistry Collections: Dealing with Chemistry Resources in Electronic Formats

Possible topics include:

- Migration of chemistry references sources and journals from print to electronic;
- Digital library operations;
- Electronic resources — presentation and instruction;
- Structure searching of WWW databases;
- User perception and acceptance of electronic resources
- Transitioning from print to digital library;
- References Service issues;
- Archival issues related to electronic materials — years, decades or centuries.

Researchers are invited to submit proposals for a paper to be presented at the Trisociety Symposium. Submit a 200-400 word abstract which includes the paper's topic and scope by January 15, 2002. Presenters will be notified by March 1, 2002 if their paper has been selected.

Abstracts, e-mail preferred, should be sent to :

Marilynn Dunker
The Procter & Gamble Company
6300 Center Hill Avenue
Cincinnati, OH 45224
dunker.mj@pg.com

*The Trisociety Symposium is a joint venture of the American Chemical Society Division of Chemical Information, Chemistry Division of the Special Libraries Association and the American Society for Information Science and Technology Special Interest Group on Scientific and Technical Information Systems. Its aim is to advance co-operation among the chemical information professionals of the three participating societies by holding a joint one day symposium on a topic of mutual interest every four years. This will be the seventh symposium.

QUEST TECHNOLOGY, INC.

Technical Translation Service

Your Source For Translations

Dedicated to furnishing timely, accurate technical translations for over 30 years, Quest Technology provides:

- ◆ all languages
- ◆ competitive pricing
- ◆ fast turn-around time
- ◆ typesetting and document retrieval

All translators are professionals with advanced degrees. *Estimates are provided free of charge.*

**1603 S. Highland Avenue
Arlington Heights, IL 60005
TEL 800-323-8707
FAX 847-437-9869
questtrans@aol.com
www.members.aol.com/questtrans**

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

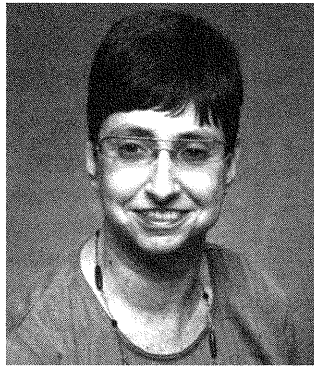
FROM THE CHAIR

CAROL REESE

No matter how much we try to “get back to normal,” things are no longer the same since the events of September 11th. On a personal level, we will all remember where we were when we heard about the attacks. I was at a local hotel attending what was supposed to be all-day workshops on Web searching. Once I found out about the tragedies, I left the workshops and went back to my office at the American Society of Civil Engineers (ASCE) where I ended up watching the news with my colleagues – in total shock.

On a professional level as Engineering Librarians, we will be asked to help our clients – whether students, faculty, practicing engineers, or lay people – to understand what happened to these structures and why. The day after the attacks, I was asked to help locate experts in various areas of forensic engineering. ASCE has since established two groups of volunteers that will gather data from both the Pentagon and World Trade Center sites. I am sure that this is only the beginning. In the upcoming months and years, engineers will have many questions regarding these events, and I know that each you will use your expertise in information and knowledge management to guide your clients in their search for answers.

As for SLA news, the planning for the Los Angeles conference continues. The Engineering Division will be sponsoring several programs in addition to the usual networking meetings. We kick off the conference with an all-day CE Course on business intelligence for science and technology. A half-day course was given in San Antonio and there was such a great response to it that we decided to expand it for Los Angeles. The Aerospace Section will be holding a combination breakfast meeting and presentation again this coming year. Later the same day (Monday, June 10th), the entire Division will have its luncheon and



business meeting where we present our awards. A program on information literacy follows. With our clients being inundated with information, it is up to us to help them “cull the wheat from the chaff.” The Environment & Resource Management Division is co-sponsoring this program with us.

Tuesday will be a busy day for the Division. First thing in the morning, we are co-sponsoring a breakfast and program on GIS with the Geography & Mapping Division, which is doing the planning for this program. Then, we are putting on a program on the future trends in electronic journals and how these trends might affect collection development and management. In the afternoon, we will be hosting two programs on the issue of standards. The first will be our usual roundtable discussion co-sponsored with the Science & Technology Division. This will be followed by a program on Standards Developing Organizations (SDOs).

Wednesday morning will be the first meeting of the new board. All Division members are welcome to participate. If you wish to get involved with the Division, this is a good place to start. The new Division Chair will be working on selecting Chairs for various committees. Attending this meeting is a good way to signal your desire to get involved.

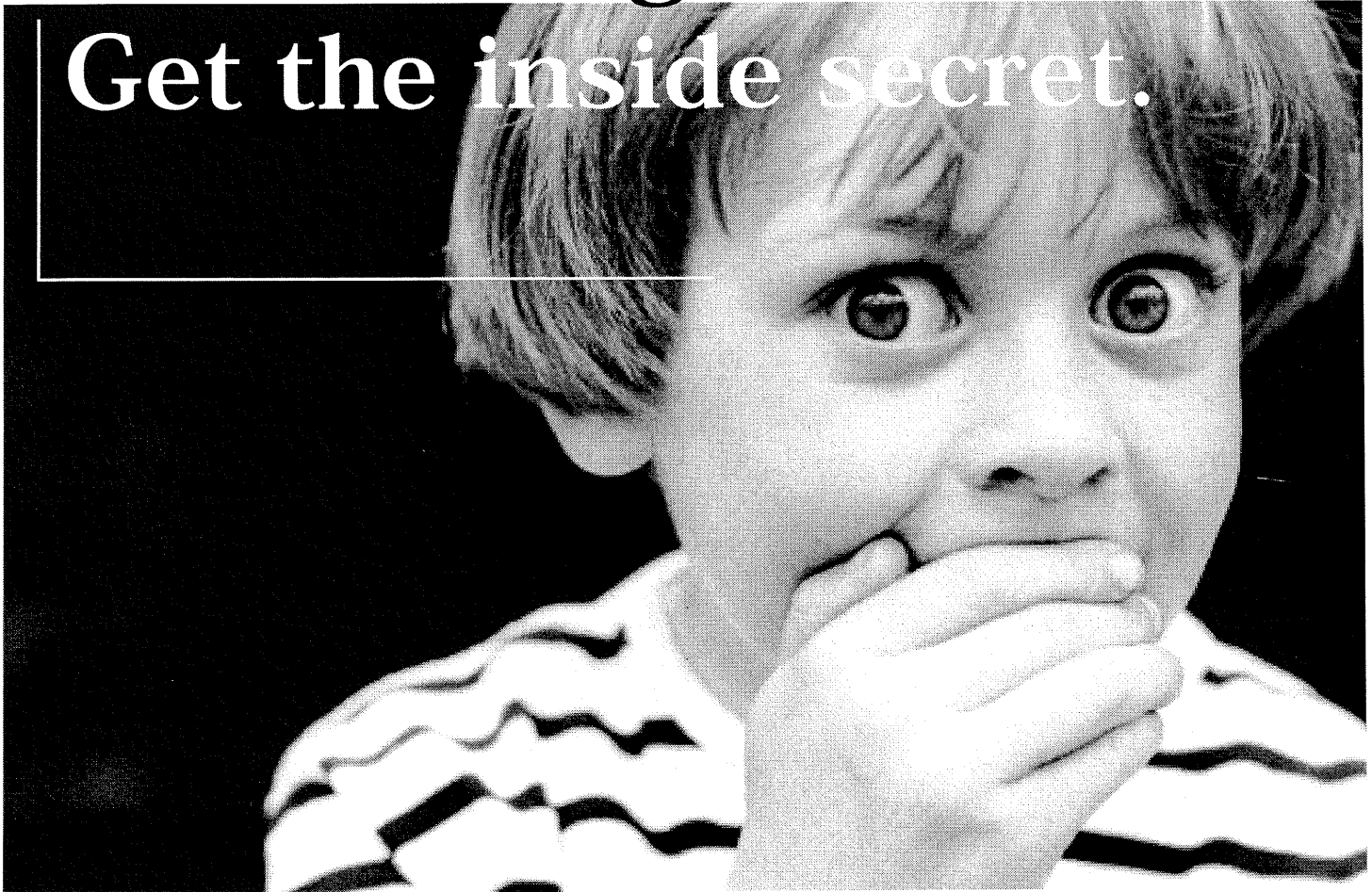
On Thursday, we will be co-sponsoring a trip to the Jet Propulsion Laboratory with the Physics, Astronomy & Mathematics Division.

That brings you up-to-date on our plans for the L.A. Conference.

Remember *Sci-Tech News* is your publication. Use it to let others know what is happening in your world. Send in write-ups about your library. If you don't work in a library, let us know how you are using your knowledge and experience. I'm looking forward to hearing from you. The next issue will come out in February; the deadline for copy is January 15, 2002.

Outsourcing?

Get the inside secret.



For nearly 20 years, the libraries of the world's largest corporations have trusted Advanced Information Consultants, Inc. to handle projects they didn't have the time, budget or staff to do. For hundreds of clients—and thousands of projects—our professionals have discreetly and diligently handled assignments that range from cataloging and onsite document delivery to acquisitions management and contract staffing.

Our experienced staff understands your priorities. As consultants, we listen to your needs, develop custom-tailored solutions, and deliver them quickly, accurately and cost-effectively.

Now that the secret's out, contact us today for help with your outsourcing needs: 800 611-6801.

www.advinfoc.com
info@advinfoc.com



Advanced Information Consultants
An Infotrieve Company

Engineering Division Welcomes the Following New Members

October 15, 2001

Center for Transportation Research
Attn: Jose Hernandez
3208 Red River St
Ste 200
Austin, TX 78705-2659

Ms. Patricia Adorno
8300 Manitoba 313
Playa Del Rey, CA 90293

Ms Kristin F Anderson
Malachite Technologies
5 Branch St
2nd Fl
Methuen, MA 01844-1947

Ms. Susan G. Braun
19541 Tuba St
Northridge, CA 91324-1037

Ms Suzette Broussard
6042 Willowbend Blvd
Houston, TX 77096-4731

Mr. Chester S. Bunnell
St. Louis University
Pius Library
3650 Lindell Blvd
Saint Louis, MO 63108-3302

Mr Dale Copps
Creare Omc
Etna Rd
PO Box 71
Hanover, NH 03755

Ms Anna Davidovich
Booz Allen & Hamilton
IPC Research Svcs
101 Park Ave
New York, NY 10178-0002

Ms. Marlene E. England
Underwriters Laboratories Inc.
Technical Reference Center
333 Pfingsten Road
Northbrook, IL 60062-2096

Ms. Nancy G. Faget
14143 Castle Blvd #102
Silver Spring, MD 20904-4744

Ms. Gale Harris
4044 Standerling Rd
Fort Worth, TX 76116-7210

Mr. Roman Koshykar
Binghamton Library
Science Library
P.O. Box 6012
Vestal Pkwy East
Binghamton, NY 13902-6012

Ms. Nicole D Lawton
8181 Holanda Ln
Dublin, CA 94568-1435

Ms. Pamela A. Lee
10265 Haledon Ave
Downey, CA 90241-2703

Ingar Lomheim
NTNU Library
Trondheim, 7494
Norway

Ms Robin McBride
Univ of CA – San Diego
Science Engineering Library
9500 Gilman Dr
La Jolla, CA 92093-0175

Mr. Carlos Medina
Exponent Failure Analysis Assoc.
Info Resources
149 Commonwealth Dr.
Menlo Park, CA 94025-1133

Ms. Doris M. Olker
Schoor DePalma
Central File – Library
200 State Highway 9
Manalapan, NJ 07726

Ms. JoAnne Rocker
8 Hawthorne Pl
Hampton, VA 23666-6800

Mr Larry O Schmidt
1820 NW Garfield Ave
Corvallis, OR 97330-2536

Ms Amy E Tursky
DOT Library Aviation Branch
Public Svcs
800 Independence Ave SW
Rm 931
Washington, DC 20591-0001

Ms. Vicki A. Valleroy
10727 206th SE
Snohomish, WA 98296-4924

Ms Carolyn N Warnica
Hatch
Infocentre
2800 Speakman Dr
Mississauga, ON L5K 2R7
Canada

Ms Joyce L Weaver
1700 Merry Oaks Rd
Charlotte, NC 28205-3824

Mr. Jeffrey P. White
Transport Canada
Tech Reference Ctre
330 Sparks St.
Rm 465
Ottawa, ON K1A 0N8
Canada

Engineering Division News

Sara Tompson, SLA Engineering Division Chair-Elect, and Packer Engineering Library Director (<http://www.packereng.com/html/pelibrary.html>), has been appointed as one of two special library members of the DuPage Library System (<http://www.dupagels.lib.il.us/>) Long Range Planning Committee.

**Special Libraries Association Engineering Division Announces
INSPEC's \$500 Travel Stipend AWARD
To Attend the 2002 SLA Annual Meeting in
Los Angeles, CA, June 8-13, 2002**

INSPEC sponsors an award of a \$500.00 travel stipend for library school students toward payment of expenses incurred while attending the annual Special Libraries Association conference, June 8-13, 2002, in Los Angeles.

The INSPEC Award will be given to the qualified student who submits an essay of three or less double spaced typed pages that is judged to be the best essay submitted describing HOW IS YOUR LIBRARY EDUCATION PREPARING YOU TO PUT KNOWLEDGE TO WORK?

Qualifications for Entering Award Competition:

1. Be a student member of the Special Libraries Association.
2. Be attending his or her first SLA Conference.

Special Instructions:

1. Give your full name, address, telephone number, e-mail address, and a statement, on one page, of your qualifications, as given above, for entering the award competition. Include the name of your library school.
2. Type your full name (without any additional personal information) at the top of each essay page. Double space the typing on all pages.

Deadline for Submission: March 31, 2002.

The recipient of the INSPEC Award will be notified by the first week of May, 2002.

Submit Entries for the award to:

Bette Finn (Chair, SLA Eng. Div. Scholarship Committee)

Georgia Tech Library and Information Center
Georgia Institute of Technology
Atlanta, Georgia 30332-0900
Voicemail: (404) 894-1790
Fax: (404) 894-8190
E-mail: bette.finn@library.gatech.edu

AEROSPACE SECTION OF THE ENGINEERING DIVISION

The Aerospace Section of the Engineering Division encourages communication and cooperation among information professionals concerned with aerospace, aeronautical and related technologies. In addition, it fosters dialog with entities such as NASA, the AIAA and other important sources of technical data and bibliographical services.

FROM THE CHAIR

THOMAS DE PETRO

Let me start with a follow-up to my article about ESDU, the Engineering Sciences Data Unit, that I published in *Sci-Tech News* last November. I would then like to share some of my thoughts on recent events and their effect on the aerospace sector.

The ESDU online Web product is now available to academic institutions from IHS at a discounted subscription price of \$7,500 per year. ESDU has both commercial and educational uses in aerospace, structural, mechanical, and process engineering, plus in environmental technology.



The tragic events of September 11th affected the entire world. The loss of life and the destruction of property in New York City and Washington, D.C. saddened and stunned people everywhere. In all areas of engineering, including the aerospace realm, there is a need for additional effort on many levels to assist in the aftermath and the recovery. The biggest goal for the entire aerospace industry will be to contribute on all levels to the prevention of such incidents in the future.

As the Section's members know, every segment of the aerospace industry has been affected. It is a long and growing list including airlines, aircraft companies, rocket and engine manufacturers, defense companies, air transportation facilities and the industries that support them, governments, and educational and research institutions. As the engineers, managers, technicians, researchers, politicians, professors, students, military personnel, and others begin to grapple with the resulting challenges, they will have an even greater need for reliable information resources. As always, that is where we as aerospace information professionals come in, by continuing to contrib-

ute our expertise. Providing comprehensive access to aerospace information is not a new task to us. It is a continuation of our mission and that of the entire SLA in "putting knowledge to work."

The current situation, however, adds a certain edge to that work. One example of this is the Jane's Information Group sources. Looking at that company's printed *Catalogue 2001*, the reality of the post-September 11th situation for aerospace is more apparent. The *Catalogue* lists not only the familiar aircraft sources, but also others in the related defense, military, and security arenas. Keywords such as warfare, targets, weapons, radar, imaging, security, insurgency, and terrorism occur in the titles of some Jane's products. Even the introduction written earlier this year by managing director Alfred Rolington, weighs heavy. He stated that, "As global geopolitical issues increasingly dominate world business and security, it has never been more important to evaluate all of the complex factors that influence the dynamics of world economic and political global stability." That statement further emphasizes how information sources are a key element in addressing the tremendous challenge the aerospace industry now faces.

Jane's is just one of many publishers in our industry. AIAA, ASME, SAE, IEEE, CRC, Wiley, McGraw-Hill, and others also come to mind. Just knowing that there are relevant and reliable information sources available from publishers is important in our work. Our awareness of information can be its beginning link for our users, be they clients, customers, patrons, students, faculty members, etc. For us, that awareness often begins at our annual conference, where publishers are present as exhibitors and sponsors of the Aerospace Section or the Engineering Division. Our conference programs also provide opportunities for awareness of relevant aerospace information sources through our speakers, presenters, panels, and discussions.

On a personal note, I have never been to the Pentagon, but I saw the program about it on the Discovery Channel the week before it was tragically hit. In 1996, I had the opportunity to visit New York City and the World Trade

AIAA ONLINE

Explore a Universe of

The screenshot shows the AIAA website interface. At the top, there is a navigation bar with links for Register, Purchase, Submit, Join / Renew, Contact, and Search. Below this is a header section with the AIAA logo and the text "RESEARCH and TECHNICAL INFORMATION ONLINE TECHNICAL MEETING PAPERS". A sidebar on the left contains a "Return To Main Menu" button and the text "American Institute of Aeronautics and Astronautics". The main content area lists several categories: General Information, Online Technical Journals, Online Technical Meeting Papers, Book of Acronyms, Presentations, and Meeting Papers Searchable Citations Database.

AIAA Technical Meeting Papers

Transactions – Search the Meeting Papers Citations Database to find the papers published from 1996 to present. Find just what you want and order the complete paper for online delivery straight to your desktop.

Archives – AIAA meeting papers for the years 1996 through 2000 are now available online. Choose a 1996-1998 package, a 1999-2000 package, or an All Publications Package that includes conference papers and journals.

Yearly Subscriptions – Subscribe to all papers presented at more than 15 conferences. Available in print, CD, microfiche, online, and in combination packages.

AIAA Journals

Table of Contents Alerting Service – A free alerting service is now available for all AIAA journals. You will receive the latest contents right at your desktop.

Yearly Subscriptions – Every AIAA journal is now available in print and online. AIAA members gain free online access when they purchase the print journal.

Archives – Four years of back issues –1997-2000 – for all journals are now available online. Purchase them individually, as an All Journals Package, or as an All Publications Package that includes journals and conference papers.



American Institute of Aeronautics and Astronautics
1801 Alexander Bell Drive, Suite 500 • Reston, VA 20191-4344

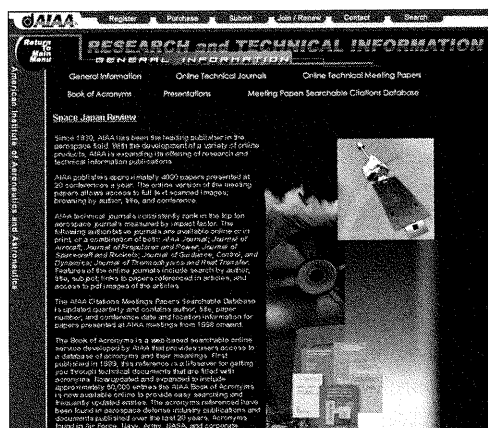
Aerospace Research from your Desktop

AIAA and ISO Standards

Accredited by the American National Standards Institute (ANSI), AIAA provides national and international aerospace standards publications. More than 30 AIAA and 15 ISO space standards are now available online.

Space Japan Review

Space Japan Review is one of Japan's preeminent journals on space technologies and policies. Published bimonthly, recent topics include: digital satellite broadcasting, broadband satellite communications systems, loop heat pipes for space satellites, risk management in space programs, high-temperature superconductor materials.



Acronyms in Aerospace and Defense

Fernando B. Morinigo and
Peter Landecker

This online database service is a lifesaver for getting you through technical documents that are filled with acronyms. It includes more than 50,000 acronyms that have been found in aerospace defense industry publications and documents since 1982.

**View details and order online
24 hours a day at www.aiaa.org.**

Center, one of many things I owe to my membership in SLA. I was there to see an SLA colleague whom I knew from our university's student group. She was working for the Linda Hall Library in its acquisition of the Engineering Societies' Library, located across the street from the United Nations. We visited the New York Public Library Business and Technology branch in Midtown Manhattan, an impressive special/public library. I went to the WTC by myself on a clear, fall day. Buying a ticket and riding to the top of Tower 2 was a breeze. I nearly forgot about the engineering marvels of the place when I stepped out on the observation deck and was surrounded by the clear blue sky and the fabulous view in all directions. It was one of those neat moments, now a significant memory. I hope one day to return to the site of the World Trade Center when it is finally cleared and has a memorial to the memory of all those who died in New York, Washington and Pennsylvania.

**Aerospace Division New Members as of
October 15, 2001**

Ms Anna Davidovich
Booz, Allen, & Hamilton
IPC Research Svcs
101 Park Ave.
New York, NY 10178-0002

MATERIALS RESEARCH AND MANUFACTURING DIVISION

Members of the Materials Research and Manufacturing Division share information concerning all phases of materials procurement production, applications and handling by means of educational activities, cooperative programs, publications and Division sponsored events at annual conferences.

FROM THE CHAIR

MARTHA WALUNIS

September 11, 2001 – This date will forever be etched in stone for all our members. The very freedom and foundation of our country was violated and attacked. As Americans, we came together as a united group to assist those injured in the devastation. As Chair of the MRM Division, speaking on behalf of all our members, our hearts go out to those who lost loved ones on this infamous day.

As the new Chair of MRM, I want to thank our past Chair, Chuck Wenger. Chuck did a great job of planning programs for our Division that were excellent and well-received. One of the main challenges facing our division is that our membership continues to drop. Chuck addressed this challenge last year by sending a mailing to prospective members. Our first Open House in years was held in San Antonio where we concentrated on networking. We will be having one in Los Angeles and are looking for sponsors.

One of the suggestions at the Annual Meeting was to have more Round Table discussions. So in Los Angeles we will have three.

- *Materials Properties Information Blitz* moderated by Laurie Allen, Raytheon Systems Co. This roundtable will be held during the lunch hour and we are looking for a lunch sponsor. If not, we can bring our lunch with us.
- *Manufacturing Information Blitz* moderated by Betsy Aldridge, PACCAR Technical Center.



- *Basics of Polymers and Plastics: How to Get Information on Them.* This is co-sponsored by the Chemistry Division and a moderator has yet to be named. We may also get a speaker for this roundtable.

The main program planned for our Division is on materials science and how work environment and research influence the use of library resources. Paul Kotula, Sandia National Laboratories will be the speaker. As an added bonus at this session, Paul Hlava, also from Sandia, will give a presentation on "The Causes of Color in Minerals and Gemstones".

We are also co-sponsoring a program on Intellectual Property Research with the Communications Division and the Legal Division.

There will be a change in the preliminary conference program. It will be fine-tuned into a slimmer, more streamlined marketing piece so that conference attendees can see the value of the wonderful programs that are planned. More to come on this later.

I am already receiving input from some of our members but would like more to help solve some of the challenges facing our Division. I will be looking forward to hearing from you.

**The Materials Research and Manufacturing Division
Welcomes its New Members**

Betsy L. Aldridge
PACCAR Inc., Tech. Ctr.
12479 Farm To Market Rd.
Mount Vernon, WA 98273-9671
360-757-5234
betsy.aldrige@pacar.com

Virginia A. Baldwin
Univ. of NE, Engineering Library
4 Nebraska Hall, W20
Lincoln NE 68588
402-472-3412
vbaldwin@unl.edu

Donald D. Chatten
Elsevier Engineering Info., Sales
352 Fairfax Ln.
Grayslake, IL 60030-3702
847-223-1811
dchatten@ei.org

Ann Hullihan Lee
Factiva, Business Information Services
One S. Wacker Dr., Suite 2200
Chicago, IL 60606
312-750-4023
ann.lee@factiva.com

Katherine P. Longaberger
Goodyear Tire & Rubber, 450D
142 Goodyear Blvd.
Akron OH 44305-3375
330-796-4981
klongaberger@goodyear.com

Anna W. Ren
Northwestern Univ., Science & Engineering Library
2233 N. Campus Dr.
Evanston IL 60208-3530
annawu@northwestern.edu

Thomas E. Robinson
Michael Baker J. Inc., Library
3601 Eisenhower Ave., Ste 600
Alexandria VA 22304-6425
703-317-6531
trobinson@mbakercorp.com

Mary D. Steiner
Princeton Univ., Engineering Library
Engineering Quadrangle
Princeton NJ 08544
609-258-3237
marys@princeton.edu

SCIENCE-TECHNOLOGY DIVISION

The objectives of the Science-Technology Division shall be to draw together those members of the Special Libraries Association having an interest in the role of library and information science as applied to the recording, retrieval and dissemination of knowledge and information in all areas of science and technology, and to promote and improve the communication, dissemination and use of such knowledge for the benefit of libraries and their users.

FROM THE CHAIR

JANET A. HUGHES

As I write this missive, the events of September 11, 2001 are just a few weeks past. I have no profound insights to impart, no adequate words of comfort. All I can say is that I hope all our members, and their institutions, colleagues, families, and friends, suffered no devastating losses. As we strive to return to normalcy, let us be mindful of the toll these acts and their aftermath have taken, but let us not allow them to prescribe our actions. We must continue the Division's normal activities, even when it is difficult to focus on issues that seem trivial by comparison.



The issues before our Division were outlined in my last column. Membership is down, and we need to understand the underlying causes for this, to circumvent further losses. The membership situation may yet worsen, if the economy continues its downward spiral, and more of our members' employers downsize or cut budgets. We must make membership even more beneficial, so continued participation will always be valuable. Your thoughts and ideas about ways to increase the value of Division membership are always welcome.

We must make effective use of our resources. We have always been thoughtful in our expenditures, whether monetary or in time spent, but some of our projects have been less successful than others. The Projects and Publications Committee, led by Dale Riordan, is charged with investigating how other Divisions encourage and reward publications by their members. That data will enable us to reassess the Division's publications grant and other potential projects. If you have any comments to make about how we should allocate our resources or what projects we should consider, please let me know.

We must plan a wonderful conference that will entice those reluctant to come to Los Angeles to join us there for wonderful programming, great learning experiences, fun social activities, and tremendous networking opportunities. Already, Leila Fernandez, our Professional Development Chair, has planned a wonderful CE course on competitive intelligence for sci-tech librarians. Sue Brewsagh, our Conference Program Planner, is busy now expanding on program ideas and seeking speakers for such diverse topics as surviving and thriving when companies consolidate, conducting an information audit, how to do e-commerce, new paradigms of information access, and the perils and problems of UCITA. And Joe Kraus, our Contributed Papers Session Chair, is currently gathering submissions for a session entitled, "Getting The Word Out: Innovative and Effective Marketing of Library Services to Your Scientific and Technical Patrons". If you know of a good (and hopefully inexpensive) speaker who could contribute to any of the above topics, please let me know. Also, those of you who attend conferences know how rewarding they can be, so please, do your utmost to encourage other SLA members to attend the 2002 Annual Conference. This should be a terrific conference, so get the word out.

I look forward to hearing from you all. Remember, my email box is open for your suggestions, thoughts, comments, gripes, etc. Feel free to contact me at jah@psulias.psu.edu or 814-865-3705.

2002 Nominations for Chair-Elect and Treasurer

Below is a list of candidates. The Nominating Committee would like to thank these outstanding individuals who are willing to run for the Division Offices this year. Biographical information is published unedited.

Chair-elect

Virginia Baldwin

Virginia Baldwin joined the faculty of the University Libraries at the University of Nebraska in Lincoln as Associate Professor and Head of the Engineering Library on September 1, 2000. On September 1, of 2001 she additionally was appointed Head of the Physics Library. Ms. Baldwin obtained a Master of Library and Information Science degree from Indiana University, a Master of Science degree in Mathematics from the Florida Institute of Technology, and a Bachelor of Science degree in Mathematics from the University of North Carolina. Her prior work experience includes 3 years as a Scientific Programmer at Patrick Air Force Base in Florida and 13 years as an Engineer Specialist at Vandenberg Air Force Base in California. For 9 years at Eastern Illinois University she was responsible for collection development and specialized reference and library instruction in the Engineering, Mathematics, Computer Science, and Physical Science disciplines. She was awarded academic tenure at Eastern Illinois University in 1997 and promoted to Professor in 1999.

Since 1996 Ms. Baldwin served as Special Library Association Science and Technology Division (STD) *liaison* to the Science and Technology Section (STS) of the Association of College and Research Libraries. During this time period she participated in several committees and attended both sessions of the STS Council at two ALA conferences each year. During each of those years since 1996, Virginia gathered information about STS activities, reported back to STD Board members and suggested ways the two organizations might coordinate activities. In 1999 her position was added to the reporting structure at STS meetings. In addition to these associations, she is a member of the American Society for Information Science and the American Society for Engineering Education. She is also the Editor of the journal *Science and Technology Libraries*.

Ms. Baldwin has given a presentation at the national level on cooperative collection in the sciences, and at the statewide level on library staff development, the development of a formula for the allocation of library budgets by discipline, and evaluating user interactions with WWW documents. She has authored an article on cooperative collection and co-authored articles on staff development and student learning styles related to technology education.

She has also authored a chapter, "Collection Development in the New Millennium – Evaluating, Selecting, Organizing for Ease of Access, Reevaluating, and Updating Electronic Resources" in the Haworth Press monograph, *Electronic Collection Management*. Her articles have appeared in *Illinois Libraries* and *College and Research Libraries*, with a forthcoming article in *The Journal of Technology Studies*. She has been awarded numerous grants for cooperative collection in the sciences and a grant for information literacy.

Virginia has two sons. Carl, a graduate of the University of Illinois with a degree in Computer Science Engineering, now works in California as a manager with Accenture. Eric recently graduated from the University of Illinois with a degree in Management Information Systems from the College of Business and Commerce.

Additional information:

Virginia Baldwin
Associate Professor
Engineering Library
W204 Nebraska Hall
University of Nebraska, Lincoln
Lincoln, NE 68588-0516
Phone (402) 472-3412
vbaldwin2@unl.edu

James E. Manasco

Employment:

- University of Kentucky: Head, Shaver Engineering Library; November 1999-present.
 - University of Kentucky: Acting Head, Chemistry/Physics Library; February-October 2001.
 - Colorado College: Natural Sciences Librarian; December 1996-October 1999.
 - University of Kentucky: Head Technician, Chemistry/Physics Library; January 1992-November 1996.
- ##### Teaching:
- University of Kentucky: Instructor, UK101-Academic Orientation, Fall 2001.
 - Colorado College: Instructor, NS307-Library Resources in the Biological and Chemical Sciences, Spring 1999.
 - Instructor, GS126-Library Research Methods, 1997-1999.
 - Lexington Community College: Part-time Faculty,

LB299-Introduction to the Internet, 1994-1996.

Education:

- MSLS, University of Kentucky
- BA, University of Kentucky, American History

SLA Activities:

Member since 1994.

-Science-Technology Division: Member since 1994. Government Relations Committee, Chair, 1995/96. Student Relations Committee, member, 1996-present (Chair, 1998/99). Membership Committee, member 1999-present (Chair 2000-2002). Program Planning Committee, member, 1999-2001. Contributed Papers Session group, member 1999-present (Convener, 2000/01).

-Physics-Astronomy-Mathematics Division: Member since 1996. Awards Committee, member, 1996-1999. Vendor Roundtable co-moderator, 1997/98. Professional Development Committee, member, 1999-present (Chair 2000-2002).

-Information Technology Division: Member since 1997. Awards Committee, Chair, 1997-2000. Digital Content Section, Chair-Elect, 1999/00; Chair 2000/01. Member Services Committee, member, 2001-present.

-Kentucky Chapter: Member since 1994. Columnist for the Kentucky Chapter Special Libraries Association Newsletter, 1995/96; Assistant Editor, 1996/97, 2000-June 2001; Editor, July 2001-present. Director-at-Large, July 2000-June 2002.

Other Professional Memberships:

-Kentucky Library Association (KLA), Academic Section, 1994-1997; January 2000-present. Special Section, January 2001-present.

-Colorado Libraries Association (CLA), Academic/ACRL Section, 1997-1998.

-American Society for Engineering Education (ASEE), January 2000-present.

Presentations/Publications:

- October 2001. "Meeting the Needs of Students and Faculty of the UK Engineering Program at the Paducah Community College: An Adventure in Distance Learning," a presentation with Sandy Farrell of the Paducah Community College Library at the KLA Fall Conference.

- "Contributed Papers: Managing the Delivery of Electronic Journals: Issues for a Science-Technical Library," *Sci-Tech News*, vol. 55 no. 3 page 48 (August 2001).

- "Electronic Journal Management: A Selected Bibliography," in *Managing the Delivery of Electronic Journals: Issues for a Science-Technical Library*, Proceedings of the Contributed Papers Session Science Technology Division, Special Libraries Association, June 2001

- April 2001. "Selection and Evaluation of Web Sites in Science and Engineering," a presentation with Ann Davidson at the SLA Kentucky Chapter/KLA Academic and Special Sections Joint Spring Conference.

- "Odds and Ends from Savannah," *Kentucky Chapter Special Libraries Association Newsletter*, vol. 25 no. 4 pages 4-5 (2001).

- "Remote Information Services: A Selected Bibliography of Recent Publications," in *The Distributed Sci-Tech Librarian: Models for Remote Information Services*, Proceedings of the Contributed Papers Session Science Technology Division, Special Libraries Association, June 2000. Also published on the Special Libraries Association Science-Technical Division's website (<http://www.sla.org/division/dst/2000papers.html>).

- "Minneapolis Conference Program Write-Ups for Sci-Tech Division Events," *Sci-Tech News*, vol. 53 no.4 pages 44-45 (November 1999).

- "From the Hinterlands, Or a Kentucky Wildcat in General Palmer's Town," *Kentucky Chapter Special Libraries Association Newsletter*, vol. 24 no. 1 page 7 (1999).

- Co-authored with Bryan D. Gillespie, James Purks and Maggie D. Johnson, "Duties of Student Assistants in Carnegie I Branch Academic Libraries," *Kentucky Libraries*, vol. 62 no. 4 pages 14-18 (1998).

- Co-authored with John H. Sandy and Mary Frances Lembo, "Preparation for Sci-Tech Librarianship: Results of a Survey," *Sci-Tech News*, vol.52 no.1 pages 16-17 (1998).

- "Evaluation of Web Sites" a presentation with Robin Satterwhite to the staff of the Air Force Academy's Library and Academy faculty, April 1997.

- "Use of Students in Academic Branch Libraries" a presentation with Maggie Johnson and Bryan Gillespie at the Kentucky Library Association, Academic Section/Special Libraries Association Joint Spring Conference at Jenny Wiley state Park in Prestonsburg, Kentucky, April 1996.

Treasurer

Roger Beckman

Employment: Head, Indiana University Life Sciences Library April 15, 2000-present. Assistant Head/Reference Librarian Indiana University Chemistry Library 1988-2000.

Various other library positions at Indiana University including Consultant to University of Indonesia Libraries MUCIA Project May 1985-April 1986.

Education:

M.A. degree (biology) Indiana University.

M.L.S. Indiana University.

B.A. Anthropology Indiana University.

SLA Activities:

Member since 1986.

Member Science & Technology Division since 1997. President/President-elect Indiana Chapter SLA 1993/95. Past-Chair/Chair/Chair-Elect Chemistry Division SLA 1996/99.

Science & Technology Division Archivist 2000-.
Sci-Tech Contributed Papers Session Committee for Los Angeles 2001-.

Publications/Presentations/Teaching:

C400 Chemical Information Sources and Services (1 semester hour) (twice)

C401 Computer Sources for Chemical Information (1 semester hour) (once)

In Summer Session II, 1998 and 1999, I was part of a team of science librarians that taught L624 - Information in Science and Technology (3 semester hours)

Co-teach M400 Biomedical Documentation spring 1999/2000-present.

PUBLICATIONS, PAPERS, BOOK REVIEWS, POSTER SESSIONS, and WEBPAGES

"Chemistry" with Gary Wiggins and Keith Schreiber. In *Internet Tools of the Profession: A Guide for Information Professionals*; Edited by Hope Tillman. 2nd. Ed. SLA: Washington, D.C., 1997. The basic information and links are also available at <http://www.sla.org/pubs/itotp/c5.htm>.

"Beilstein's Crossfire: a milestone in chemical information and interlibrary cooperation in academia" (with Ken Rouse). In *The Beilstein System: Database and Software*; Edited by Steve Heller. ACS: Washington, D.C., 1997; pp. 133-148.

"A Chemical Information Sabbatical," *Indiana SLANT: the newsletter of the Indiana Chapter of the Special Libraries Association* (Vol. 57, no. 3, 1997).

"A Chemical Information Sabbatical: Information Provision and Training in an Academic Setting," delivered at the 2nd International Conference for Chemical Information Users, Manchester, UK on 15 November, 1995.

Prepared the section on Peru for *Guide to Official Publications of Foreign Countries*. [Bethesda, Md]: CIS, 1990.

"Optometric Education in Indonesia," *Interoptics: Bulletin of the International Optometric and Optical League* (No. 72:1-2, 1986).

One of co-authors of "The Team Approach to Library Consulting in a Developing Country" *C+RL News* (46:629-632, 1985).

Indians of Latin America: an Exhibition of Materials in the Lilly Library (with Rebecca Cape). Bloomington: Lilly Library, 1976.

Reviews:

EndNote 2.3 Software Review *J. Chem. Infor. And Comp. Sci.* (37:957-958, 1997)

"Review of the British Pharmacopoeia CD-ROM" (with Marilyn Dunker). Dec. 9, 1994 on the CHEMICAL INFORMATION SOURCES DISCUSSION LIST. The archives are available at <http://listserv.indiana.edu/archives/chminf-1.html>.

Name Reactions and Reagents in Organic Synthesis by Bradford P. Mundy for *Journal of Chemical Information and Computer Sciences* (31:170-171, 1991).

Bowker's Sci-Tech Reference Plus CD-ROM for "Databases" column in *RQ* (30:408-409, 1991).

Reviews of government documents in *Government Publications Review* (10:598-624, 1983) and *Focus on Indiana Libraries* (36(5):18, 1982;36(1):12, 1982; 36(3):15, 1982)

Poster sessions:

"Habitat Associations and Management of the Trailing Arbutus" at the 19th annual national Natural Areas Association Conference, Bloomington, IN, October 27-30, 1992.

"Use of Current Contents on Diskette" at the 1991 American Chemical Society Joint Central-Great Lakes Regional Meeting, Indianapolis, IN, May 30, 1991.

"IU Libraries' Team of Consultants at the University of Indonesia Libraries 1984/85" at the 2nd National Conference on Librarians and International Development, Bloomington, IN, May 8, 1989.

Ann Koopman

Ann Koopman manages web-based information services for Scott Memorial Library at Thomas Jefferson University in Philadelphia. She has been a member of SLA since 1993. She has served the Science Technology Division as Treasurer since 2000, Program Planner (2000 Annual Conference), established the Division's Contributed Papers conference session and continues to serve as a reader on the committee. She has been the Treasurer of the Philadelphia Chapter since 1998, and has held several other chapter-level positions both in Philadelphia and Indiana.

She is running for a second term as Treasurer of SciTech in order to provide continuity during a transition in the handling of SciTech News accounts.

Professional Presentations & Publications:

Koopman, Ann. "Building Bridges to Our Users: Liaison, Outreach, and Marketing Programs That Work" Member of panel presentation, Special Libraries Association Annual Conference, June 2001.

Matus, Nancy and Ann Koopman. "Bibliographic Citation Management Software" CE course, Special Libraries Association Annual Conference, June 2000.

Koopman, Ann. "Support for Collaboration & Publishing: Bibliographic Citation Management Software" Pre-Conference Workshop (CE course), CHES/Slice of Life Symposium (Philadelphia), June 1999.

Forrest, Jane, and Ann Koopman. "DHNet: A Model for International Research Collaboration" *Journal of Allied Health*, 27(1):39-44, Winter, 1998.

Koopman, Ann, et al. "Maintaining a Knowledgebase for Dental Hygiene: Issues and Answers from the DHNet Project" Multimedia poster presented at the Association of College and Research Libraries Biennial Meeting (Nashville), April 1997, and at the Special Libraries Association Annual Meeting (Seattle), June 1997.

Pope, Cristina A., and Ann Koopman. "Reference Manager : Improve Personal and Collaborative Access to Research Information through use of Personal Bibliographic Management Software" CE course, Computers in Healthcare Education Symposium (Philadelphia), April 1997.

Koopman, Ann, et al. "Anatomy of a Web Project: Development of an Integrated Training Resource for Animal Research" Paper presented at the Special Libraries Association Annual Conference (Boston), June 1996.

Koopman, Ann. "Development of an Integrated Training Resource for Animal Research" Demonstration session at the Computers in Healthcare Education Symposium (Philadelphia), April 1996.

Koopman, Ann and Sharon Hay. "Large-Scale Application of a Web Browser in an Academic Library" *College & Research Library News* 57(1): 12-15, January 1996.

Koopman, Ann. "Library Web Implementation: A Tale of Two Sites" *Cause/Effect* 18(4): 15-21, Winter 1995.

Murray, Rodney B. and Ann Koopman. "The JEFFLINE

Digital Office: Innovations in Educational Technology" Presented at the MLA Philadelphia Chapter Fall Symposium Reading and Writing the World Wide Web, November 1995.

Koopman, Ann and Sharon Hay. "Swim At Your Own Risk: No Librarian On Duty: Large-Scale Applications of Mosaic in an Academic Library" Paper presented at the 2nd World Wide Web Conference, Chicago, IL October 1994. Printed in the conference preprints and posted among the conference papers at URL: <http://www.ncsa.uiuc.edu/SDG/IT94/Proceedings/LibApps/hay/WWWPap.html>

Anna Ren

Employment:

Northwestern University Science and Engineering Library: Head of Public Services and Geology Librarian, 1996-present

Purdue University Engineering Library: Assistant Engineering Librarian, 1995-1996

George Mason University Fenwick Library: Information Technology and Engineering Reference/Liaison Librarian, 1990-1995

Education:

MLIS, Brigham Young University

MS, Brigham Young University, Mechanical Engineering

BS, Beijing Chemical College, Mechanical Engineering

SLA Activities:

Member since 1995.

Science-Technology Division: Member since 1995. Network Committee, chair, 1997-present.

Manager, the Sci-Tech Division Listserv, 1997-present. Auditor, 1997-1998.

Illinois Chapter: member since 1996

Indiana Chapter: member, 1995-1996

Other Professional Memberships:

American Library Association, 1990-1996

American Society for Engineering Education, Engineering Library Division, 1995-1998.

Award Committee, member 1995-1996.

IEEE: member 1992-1994

Presentations/Publications:

Co-authored with others, "Aggregator Services Evaluation: Not an Easy Comparison." *Serials Librarian* 4:1 (2001): in press.

Co-authored with others, "Collection Development Strategies for a University Center Library." *College & Research Libraries* 56:6 (November 1995): 487-95.

"USGS Quality of Water on CD-ROM: a Product Review (EarthInfo CD2)." Bulletin (Special Libraries Association. Geography and Map Division) no.180 (June 1995): 53-60.

Co-authored with others, "Formula-cased Subject Allocation: A Practical Approach." Collection Management 17:4 (1993): 25-48.

Co-authored with others, "A Report to the Director of Libraries on Tables of contents Service and Document Delivery Services Proposed for George Mason University's

Fenwick Library." Information Reports and Bibliographies 21:5 (1992): 3-9.

"Northwestern University Library Electronic Reserve" a presentation with Bob Michaelson at the American Society for Engineering Education Annual Conference in Milwaukee, Wisconsin, June 1997.

Anna Ren
Northwestern University
Science and Engineering Library
Evanston, IL 60208
847-291-2910

One Interface to the Engineering Universe

Engineering Village 2

**Powerful Multi-Database Search Tool
Seamless Desktop Information Delivery**

- Ei Compendex 30+ year back file database containing 6 million records
- Full-Text Linking
- US Patent and Trademark Office 25 year back file database of 6 million records
- Techstreet database contains 20,000 abstracts linked to full-text of Industry Specs and Standards
- Website Abstracts of 10,000 relevant engineering research and technical sites
- CRC Press Engineering Handbooks accessible on-line via ENGnetBASE subscription



*Visit us at Online Information 2001
December 4th-6th, Stand 70, 90 & 130*

www.ei.org/engineeringvillage2

Engineering Information Inc.

1 Castle Point Terrace, Hoboken, NJ 07030 USA
T. 1-201-216-8500 F. 1-201-216-8532

84 Theobalds Road, London. WC1X 8RR UK
T. +44 (0) 20-7611-4550 F. +44 (0) 20-7611-4551

Sci-Tech Division Honors Memory of Bonny Hilditch

This year the Sci-Tech Division lost one of its most dedicated members, Bonny Hilditch. Bonny served most recently as the Division's parliamentarian. Bonny was a wonderful colleague. She will be long remembered by everyone.

As a way to recognize and remember Bonny, the Board of the Sci-Tech Division renamed the International Sci-Tech

Librarian Award. In the future, the award will be called the Bonny Hilditch International Sci-Tech Librarian Award.

Read a tribute to Bonny Hilditch by Judith Theodori in the May 2001 issue of *Sci-Tech News*.

- JOHN SANDY

INTERNATIONAL SCIENCE-TECHNOLOGY DIVISION LIBRARIAN AWARD

The International Science-Technology Division Librarian Award is presented to a librarian outside of the United States and Canada. The purpose of the award is to provide an opportunity for a librarian outside of the United States and Canada to attend the annual Special Libraries Association (SLA) conference. The award will consist of conference registration and airfare, not to exceed US\$1000.

The SLA Science-Technology Division Awards Committee reserves the right to withhold the award if a sufficient number of appropriate candidates are not nominated.

QUALIFICATIONS:

Be a current member of SLA, preference going to members of the Science-Technology Division.

Reside and work outside of the United States and Canada. Be working currently in a library, information center, library school or other information capacity; preferably in the science and technology area.

Submission should be in English.

NOMINATIONS

Self-nominations are encouraged. Send a typed and signed statement including information on the candidate's professional career, professional activities or offices held, special projects or services, publications, and any other related functions that qualify the person for the award.

Documentation, although not mandatory, may include a current curriculum vita OR resume for the candidate, significant publications, supporting letters, etc.

DEADLINE FOR NOMINATIONS

January 1, 2002

APPLICATION PROCEDURES for the INTERNATIONAL SCIENCE-TECHNOLOGY DIVISION LIBRARIAN AWARD

1. Fill out the application. A copy is included in this issue and on the Science-Technology Division web site: <http://www.sla.org/division/dst/>

2. Include a current resume and relevant materials as outlined in the criteria for the award.

POST AWARD REQUIREMENTS

1. Recipient(s) will write a brief article (approximately 1,000 words) on the conference experience for the November 2002 *Sci-Tech News*.

2. Recipient(s) will be asked to serve on the Science-Technology Division Awards Committee the following year in order to provide for the continuity and enthusiasm of this award.

NOTIFICATION

1. Applicants will receive notification of award status by early February 2002. The award check will be sent to the recipient as soon as the receipts are received by the Awards Chairperson.
2. The recipient's names will be posted to the Science-Technology Division's Web site.
3. The announcement and introduction of the recipient will take place the recipient at the Science-Technology Division's Annual Business Meeting/breakfast. Details forthcoming.

Email nominations and materials preferred. Hard copy/print materials accepted.

SUBMIT THE ABOVE DOCUMENTS AND NOMINATION FORM FOR THE INTERNATIONAL LIBRARIAN AWARD TO:

John H. Sandy
Chair, Science-Technology Division Award Committee
Science and Engineering Library
The University of Alabama
Box 870266
Tuscaloosa, AL 35487
E-Mail: John.Sandy@UA.edu
205-348-2111
fax: (205) 348-2113

Please allow 2 weeks for mail delivery.

Nomination Form (Please type or print):

Nominee: _____

Complete Title: _____

Employer: _____

Full Mailing Address: _____

Zip/Postal Code: _____ Country: _____

Business Phone: (____) _____ Home Phone: (____) _____

Fax: (____) _____ E-mail: _____

If student, provide school and anticipated graduation date: _____

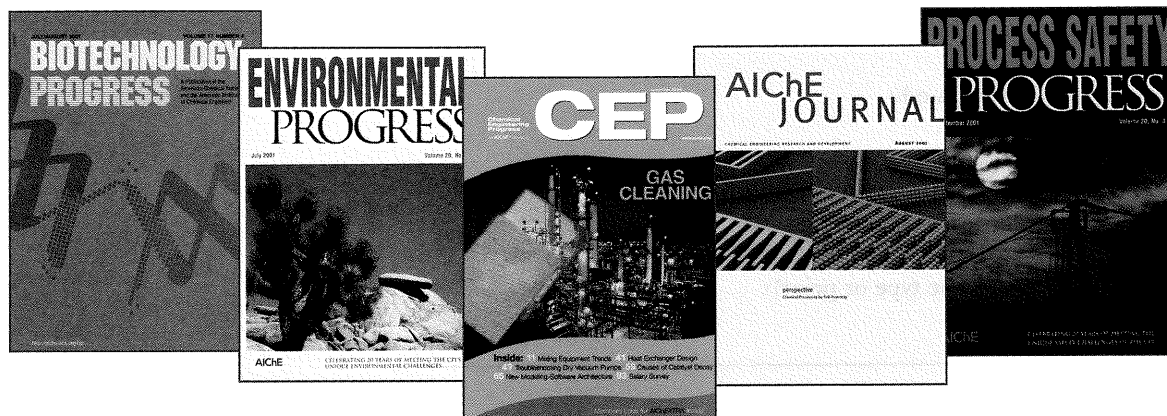
Your name: _____

Signature: _____

Your full mailing address: _____

Once a year.
One step.
One order.
One low price.
One step ahead.

2002 AIChE Package Plan



For a complete, cost-effective chemical engineering collection – with just one order, at one low price – subscribe to the AIChE Package Plan.

Your subscription to the Package Plan brings you over 10,000 pages of the year's most important research findings, information on successful applications of new technologies, news of CPI trends, current and pending governmental regulations, and process safety case histories. The Plan includes:

- Five of the industry's best periodicals – *AIChE Journal*, *Chemical Engineering Progress*, *Process Safety Progress*, *Environmental Progress*, and *Biotechnology Progress*
- One annual volume in the *Ammonia Plant Safety & Related Facilities Series*
- One annual volume of the *Chemical Engineering Faculty Directory*
- One new volume in the *Equipment Testing Procedures Series*.

No gaps. No duplication. Just current, reliable chemical engineering expertise.

It's all available for \$2,199* (\$2,524 international) – a savings of over \$600 off the combined list prices. To subscribe, call 1-800-242-4363 (international customers, please call +1-212-591-8100), or visit us online at <http://www.aiche.org/pubcat>.

Be sure to inquire about our online edition and combination package of print/online rates.

* Orders are for a calendar year, beginning January 1st.

2002 SCIENCE-TECHNOLOGY DIVISION AWARDS

Call for Nominations

The Science-Technology Division of the Special Libraries Association (SLA) announces availability of the following awards.

The awards will be presented at the 2002 SLA Annual Conference in Los Angeles, California, June 8-13, 2002. Annual conference theme for 2002 is: "Putting Knowledge to Work." Descriptions of the awards criteria and the nomination forms are below.

SCI-TECH ACHIEVEMENT AWARD

The Sci-Tech Achievement Award is the highest annual award presented by the Science-Technology Division and is reserved for those recipients whose professional work is marked by distinction and dedication to scientific and technical librarianship. The purpose of the award is to recognize those Division members who have made outstanding contributions to the Division and/or to the literature of science and technology librarianship in the past 1 to 5 years.

The \$750 award will be presented annually, with a corresponding scroll describing the reason for the award. The Science-Technology Division Awards Committee reserves the right to withhold the award if a sufficient number of appropriate candidates are not nominated.

QUALIFICATIONS:

Be a current member of the Special Libraries Association; Be a member and of the Science-Technology Division for at least three years; Be working currently in a library, information center, library school or other information capacity.

NOMINATIONS:

Self-nominations are encouraged.

Include a list of accomplishments and activities over the past 1 to 5 years. The materials should be double-spaced. (750 words or less) Neatness, spelling and grammar will count in judging. Supporting documentation, although not mandatory, may include a current curriculum vita OR resume for the candidate, significant publications, supporting letters, etc.

DEADLINE FOR NOMINATIONS: March 1, 2002

S. KIRK CABEEN TRAVEL STIPEND AWARD

The S. Kirk Cabeen Travel Stipend Award is offered to a library school student or first time conference attendee. It is a \$750 award to be used toward expenses of attending the Special Libraries Association Annual Conference in Los Angeles, California in June 2002.

QUALIFICATIONS:

Be a library school student or first time attendee; Be a current member of SLA, preference going to Science-Technology Division members; Must be attending his or her first SLA conference.

NOMINATIONS:

Self-nominations are encouraged. All nominations must include the following:

A short essay (500 words or less) on the theme of the 2002 Annual Conference: "Putting Knowledge to Work." The essay should be double-spaced. Neatness, spelling and grammar will count in judging. Supporting documentation, although not mandatory, may include a current curriculum vita OR resume for the candidate, significant publications, supporting letters, etc.

Applicants should also mention if they are currently applying for other SLA division awards.

DEADLINE FOR NOMINATIONS: March 1, 2002

**APPLICATION INSTRUCTIONS FOR THE SCI-TECH ACHIEVEMENT AWARD
AND S. KIRK CABEEN TRAVEL STIPEND AWARD**

APPLICATION PROCEDURES:

1. Fill out the Nomination Form. A copy is included below and on the Science-Technology Division's Web site: <http://www.sla.org/division/dst/>
2. Include a current resume and relevant materials as outlined in the criteria for the award.

POST AWARD REQUIREMENTS:

1. Recipient(s) will write a brief article (approximately 1,000 words) on the conference experience for the November 2002 Sci-Tech News.
2. Recipient(s) will be asked to serve on the Science-Technology Division Awards Committee in the following year to provide for the continuity and enthusiasm of the awards.

NOTIFICATION:

1. Applicants will receive notification of award status by early April 2002. The award checks will be sent to the recipient as soon as the receipts are received by the Awards Chairperson.
 1. The recipients' names will be posted to the Science-Technology Division's Web site.
 2. The award will be announced and presented to the recipient at the Science-Technology Division's Annual Business meeting/ breakfast. Details forthcoming.

Nomination Form for 2002 Science-Technology Division Awards

Indicate which award(s) you are applying for:

Sci-Tech Achievement Award S. Kirk Cabeen Travel Stipend Award

Nominee: _____

Complete Title: _____

Employer: _____

Address: _____

Zip/Postal Code: _____ Country: _____

Business Phone: (____) _____ Home Phone: (____) _____

Fax: (____) _____ E-mail: _____

If student, provide school and anticipated graduation date:

Your name: _____ Signature: _____

Your address: _____

SUBMIT APPLICABLE DOCUMENTS AND THE NOMINATION FORM TO:

John H. Sandy
Chair, Science-Technology Division Awards Committee
Science and Engineering Library
The University of Alabama
Box 870266
Tuscaloosa, AL 35487 U.S.A.
E-Mail: John.Sandy@UA.edu
205-348-2111
fax: (205) 348-2113

Please allow 2 weeks for mail delivery.

SLA Science-Technology Division

Welcomes its New Members!

James E. Manasco

Chair, Membership Committee

April-June 2001

Shelley D. Arvin
Indiana University Science Library
Life Sciences
Jordan Hall A304
Bloomington IN 47401
USA

Barbara J. Courteau
Imation
Discovery 3C-65
1 Imation Pl
Oakdale MN 55128-3414
USA

Claudia Lascar
City College of NY
Science-Engineering Library
138th St and Convent Ave
New York NY 10031
USA

Lyne Belanger
National Research Council Canada
CISTI
75 boul. De Mortagne
Boucherville, PQ J4B 6Y4
CANADA

Patricia H. Dawson
Burlington County College
Library
County Route 530
Pemberton NJ 08068
USA

Catherine R. Lavellee
Univ of Louisville
Laura Kersey Library
Louisville KY 40292
USA

Barbara Blummer
CTR for Computing Sciences
17100 Science Dr
Bowie MD 20715
USA

Mayumi N. Hepburn
Agilent Technologies
SQI 96 LIB
South Queensferry
West Lothian, EH30 9TG
UNITED KINGDOM

Deborah Lenares
Air Products and Chemicals Inc
Info & Library Svcs
7201 Hamilton Blvd
Allentown PA 18195-1526
USA

Hara Brindesi
Eugenides Fdn
Library
387 Syngrou Ave
Athens, 17564
GREECE

Patricia R. Jigolyk
Agrium
Bag 20
Redwater, AB T0A 2W0
CANADA

Claire M. Locke
US EPA Library
UNC Contractor
86 Alexander Dr
Research Triangle Park NC 27711
USA

Robert A. Buchanan
4297 Chestnut Ridge Rd #6
Amherst NY 14228-3204
USA

Marcia E. Kelinpaste
Battelle
ISS
505 King Ave
Columbus OH 43201-2693
USA

Sandra K. Lormand
Sandia Natl Laboratories
Tech Library
PO Box 969
Livermore CA 94551-0969
USA

Allison L. Chase
DePuy Orthopaedics
Technical and Business Info
700 Orthopaedic Dr
Warsaw IN 46582-3900
USA

Betsy J. Kraus
Sandia National Laboratories
Library
NWMP Library
PO Box 5800 MS-0731
USA

Jenny A. Martinez
11909 Parklawn Dr
Apt 202
Rockville MD 20852-2631
USA

Thomas H. Clark
Sun Microsystems
Library
1 Network Dr
Burlington MA 01803-2757
USA

Emily A. Langley
Miller Brewing Co
Research & Development
3939 W Highland Blvd
PO Box 482
Milwaukee WI 53208-2866
USA

Carlos Medina
Exponent Failure Analysis Assoc
Info Resources
149 Commonwealth Dr
Menlo Park CA 94025-1133
USA

Elizabeth L. Mengel
Johns Hopkins Univ
RGD
3400 N. Charles St
Baltimore MD 21218-2680
USA

Daniel E. Mitchel
CA State Library
CA Research Bureau
900 N St Ste 300
PO Box 942837
Sacramento CA 94237-0001
USA

Antoinette Nelson
Univ of Texas-Arlington
Science Engineering Library
PO Box 19497
Arlington TX 19497
USA

Gwen L. Owens
Georgetown Univ
Blommer Science Library
37th & O St NW
Washington DC 20057-0001
USA

Anna Papageorge
Industrial Design Corp
Library
2020 SW 4th Ave
Portland OR 97201-4953
USA

Elizabeth M. Azinheira
Dolby Laboratories
Technical Library
100 Potrero Ave
San Francisco CA 94103-4886
USA

Clark Bartee
US Army Corps of Engineers
Information Management
2000 Ft Point Rd
Galveston TX 77553-1229
USA

Barbara J. Pleban
Energizer
Technical Info Ctr
25225 Detroit Rd
Westlake OH 44145-2536
USA

Sara L. Ranger
3930 Densmore Ave N
Seattle WA 98103-8240
USA

JoAnn Savoy
Univ. Of Wisconsin
Water Resources Inst
1975 Willow Dr
Madison WI 53706-1103
USA

Lynn D. Schott
799 Riverdell Rd
Oradell NJ 07649-2426
USA

Gerald W. Selleck
Bayer Corp
Library
511 Benedict Ave
Tarrytown NY 10591-5097
USA

Thomas E. Shreves
J. Paul Getty Trust
1200 Getty Center Dr
Ste 700
Los Angeles CA 90049-1657
USA

July-September 2001

Shauna Bryson
Jacob Medinger & Finnegan
31st Fl
1270 Ave of the Americas
New York NY 10020
USA

Chester S. Bunnell
St. Louis University
Pius Library
3650 Lindell Blvd
Saint Louis MO 63108-3302
USA

Donald S. Taylor
Technical University of BC
Library
2620 Surrey Place Mall
Surrey BC V3T 2W1
CANADA

Sheila J. Young
Univ of MO-St. Louis
Ward E. Barnes Library
8001 Natural Bridge Rd
Saint Louis MO 63121-4401
USA

Christine Wood
Technical Resource Ctr
2201 E. Eglinton Ave E
Scarborough, ON M1L 4S2
CANADA

Kristin M. Zaccheo
Syngenta RTD Library
Info Technology
3054 Cornwallis Rd
Res Triangle Park NC 27709
USA

Judith A. Carlson
Research & Technical Library
1301 E Algonquin Rd
Rm 1914
Schaumburg IL 60196-4041
USA

Kathryn R. Closter
ITT Educational Svcs Inc
Academic Affairs
5975 Castle Creek Parkway North Dr
Indianapolis IN 46250-4340
USA

Michael J. Fosmire
Purdue Univ
1530 Physics Bldg
West Lafayette IN 47907-1530
USA

Robert G. Hall
MIT Lincoln Laboratory
Library S1-700E
244 Wood St
Lexington MA 02421-6426
USA

Melissa Lamont
Woods Hole Oceanographic Inst
Data Library
McLean Lab Mail Stop 8
Woods Hole MA 02536
USA

Mary Martha Lorber
Mitre Corp
7515 Colshire Dr
MS W940
McLean VA 22102-7508
USA

Michael J. Luesbrink
FL State Univ. Libraries
Paul A M Dirac Science Library
Call St
Tallahassee FL 32306
USA

Adriana Popescu
Princeton Univ
Plasma Physics Lab Library
James Forrestal Campus
PO Box 451 C-Site A108
Princeton NJ 08543
USA

Jennifer Robbins
Microsoft Corp
Info Svcs
One Microsoft Way
Redmond WA 98052
USA

TRANSPORTATION DIVISION

The Transportation Division promotes the exchange of knowledge and information in transportation, both in general or in one of its many subdivisions including air, highway, rail, and water transport, and multimodal transportation.

FROM THE CHAIR

MARY ELLEN TUCKER

All of us know that our world changed on September 11th.

How are we doing our part? In a time of uncertainty, as transportation information professionals, we have the power to supply a precious commodity - correct and complete technical information, delivered in a timely fashion to those who need it to do their work. Some of our members are being called upon to work late hours, or to piece together disparate bits of data to help make sense of the aftermath of the disaster. Sometimes, we help by listening to questions with empathy, and then supplying useful knowledge to members of our news media preparing them to communicate with the public. We find ourselves relied upon to do what librarians are famous for: the provision of thorough and dependable information service.



What else can we do?

Here is a note from Samuel Felder, Leadership Associate with SLA. "Professionally, those in the immediate areas may wish to volunteer professional support and services to help companies rebuild when the time comes. Contact your local chapter president and help to co-ordinate volunteer efforts. There undoubtedly will be many opportunities to assist with the rebuilding, including providing education. SLA's September 11 Disaster Help & Information Exchange can also be used to co-ordinate responses. If you have any questions please contact Tamara Coombs, tamara@sla.org"

I believe that at this time, we can benefit from sharing with each other how we are being called upon to respond to this event, and the ways that we are delivering information services. Some of our members are using the TRANLIB listserv to post disaster-related questions and answers. If you or those in your organizations are called upon to make extra efforts at this time, I urge you to use our best resource, your fellow members of the Transportation Division. Our listserv is a great communication tool. If you don't already subscribe, you can find instructions on how to join at: http://www.library.northwestern.edu/transportation/slatran/td_tran.html

In closing, I quote Frank Rich, in a recent column he wrote for the *New York Times*: "The more we know now, the better, because knowledge is an antidote to the anxiety of change, and more change is the only certainty ahead." If knowledge is the antidote to anxiety, as information providers, it is our job to deliver this powerful cure.

Transportation Division New Members

SC Dept of Transportation
Library
Attn: Ann Adcock
955 Park St Rm 110
UNITED STATES OF AMERICA
Phone: 1-803-737-9897
Fax: 1-803-737-0824
adcockDA@dot.state.sc.us

Chris E Horn
Janes's Info Grp
South Central Region
1340 Braddock Pl
Alexandria, VA 22314-1651
UNITED STATES OF AMERICA

Phone: 1-703-236-2420
Fax: 1-703-836-0297
chis.horn@janes.com

Teresa Cuke
Technical Reference Ctre
PAHQ
4900 Yonge St
Toronto, OH M2N 6A5
CANADA
Phone: 1-416-952-0351
Fax: 1-416-952-0370
cuket@tc.gc.ca

Patricia A Aper
MI Dept of Transportation
DIM Info Svcs
425 W Ottawa St
Lansing, MI 48933-1532
UNITED STATES OF AMERICA
Phone: 1-517-241-4140
Fax: 1-517-373-0168
aper@mdot.state.mi.us

Chester S Bunnell
St. Louis Univ
Pius Library
Saint Louis, MO 63108-3302
UNITED STATES OF AMERICA
Phone: 1-314-977-3908
Fax: 1-314-977-3108

Beth Moore
CO Dept of Transportation
Research
4340 E Louisiana Ave
Denver, CO 80246-3482
UNITED STATES OF AMERICA
Phone: 1-303-757-99220
Fax: 1-303-757-9242
beth.moore@dot.state.co.us

Tribute to Jeanne Thomas

By Barbara Post

Like many Transportation Division members, I had mixed emotions when I read the July 5th e-mail from Jeanne Thomas. I know all her friends and colleagues in the Division wish her and Nick a happy retirement and hope they will enjoy their trips to Africa and Greece. Jeanne has been my friend and colleague for so many years. Like many of you, I have relied on Jeanne for advice and help throughout years. Jeanne has been one of hardest workers of our Division and has helped the transportation library community achieve the recognition and stature it enjoys today. Her accomplishments in her career as a transportation librarian are too numerous to mention.

During her years as a Division member, Jeanne has served on numerous committees – always willing to do more than her share of the work and provide support wherever it was needed. During her term as chair in 1992-93, the Division celebrated its 50th Anniversary and Jeanne organized a memorable dinner cruise on the Ohio River.

In 1995, Jeanne worked to establish the Transportation Access Group (TAG) within OCLC. The purpose was to provide a common online database for transportation material and a union catalog of serials for the Transportation Division. The TAG group has continued to grow and has become a great resource facilitating the sharing of information.

Jeanne has become a recognized authority on transportation information issues. In 1994, she participated in a Federal Highway Administration's scanning tour to visit European and Asian countries to gain an understanding

of international transportation information exchange. She has participated in several National Cooperative Research Program (NCHRP) Panels, including 20-39 on developing an improved Research in Progress Database and 20-48 on accessibility of non-English language transportation information resources. She has been a member of the Transportation Research Board's (TRB's) Information Services committee, including serving as chair of that committee. She was instrumental in forming TRB's technical committee on Library and Information Science and is the first and current chair of that committee. She is also on TRB's Group Five Council.



Jeanne on Safari September 2001

In her positions within the Transportation Division and TRB, Jeanne has organized many conferences and meetings including the recent conference in St. Petersburg, Florida on "Accessing Information Resources Worldwide." Jeanne's organizational ability and diligence impressed everyone in TRB and made the conference a great success.

I am happy Jeanne will continue with some of her work at NCHRP and TRB, as that means I will still get to work with and visit with her. I am glad her retirement is not a farewell.

Jeanne, thank you for your years of service to the Division and your friendship. Best wishes to you and Nick as you enter into a new phase of your life.

Transportation Division News

2001 International Symposium On Transportation Technology Transfer

The International Symposium on Transportation Technology Transfer was held in St. Petersburg, Florida, July 29-August 2, 2001. The symposium's purpose was to bring together professionals and organizations from around the world to share and exchange ideas, information, and best practices in technology transfer. Participating organizations held concurrent meetings and programs open to all. Joint sessions on broad technology transfer topics were also held to bring everyone together.

Accessing and sharing of information resources is part of the technology transfer process. The "Conference on Accessing Transportation Information Resources Worldwide" was one of the concurrent programs designed for librarians, information professionals, and those interested in information resource sharing. Some Transportation Division members participated in this conference as speakers, moderators, or recorders. Additional members were in attendance for the conference and symposium.

The program for the conference was planned so there would be a real sharing of international information. Speakers came from around the world. In the three "Information Resources and Plans" sessions, the speakers spoke about the resources, services, and plans of their agencies or organizations, which were providers or sources of transportation information. The countries and agencies represented in these sessions include the following:

Austria – Kuratorium fuer Verkehrssicherheit (Austrian Road Safety Board), Netherlands – Information and Technology Centre for Transport and Infrastructure (CROW), Finland – Finnish Road Administration, France – Institut National de Recherche Sur Les Transports et Securite (INRETS), Australia – Australian Road Research Board (ARRB), United Kingdom – Transport Research Laboratory (TRL), United States – BTS National Transportation Library and Transportation Research Board (TRB), Sweden – Swedish National Road and Transport Research Institute (VTI), Canada – Transport Canada, Germany – Bundesanstalt fuer Strassenwesen (BASt), and Mexico – Mexican Transportation Institute (IMT).

In the program on "Knowledge Management", three speakers described their approach to knowledge management. It was a "how to" session about organizing information resources into a practical information resource for staff.

The simultaneous discussion sessions covered six key topics. These sessions were rather informal and allowed

more in-depth discussion of the topics by the participants. The six topics were Information Availability/Accessibility/Translation; Internet Resources; Lessons Learned from Washington, Prague, and Acapulco Information and Documentation Conferences; Transportation Information Infrastructure Around the World; Updated International Information Resources Guide; and Preserving Archival and Digital Resources.

The "Future of Information Access" session gave the public and private sector views of the issues shaping the future of information access. In the 'Summing Up/ Conclusions' session, two conference participants gave their impressions and described the key elements of the conference. The second joint session of the symposium was on information resources. This session gave insights into what is happening in our knowledge economy and in information sharing from three perspectives: academic, an international organization, and a department of transport.

The proceedings for the "Conference on Accessing Transportation Information Resources Worldwide" will be available primarily in an electronic format, with a small number of copies printed. The proceedings were produced through a partnership between the U.S. Department of Transportation Federal Highway Administration and the Transportation Division of the Special Libraries Association.

The "Conference on Accessing Transportation Information Resources Worldwide" was sponsored by a group of organizations and agencies: Organization for Economic Cooperation and Development/International Transport Research Documentation (OECD/ITRD), World Road Association (PIARC), American Association of State Highway and Transportation Officials (AASHTO), Transportation Research Board (TRB), Special Libraries Association, Transportation Division (SLA TRN), Bureau of Transportation Statistics (BTS), Federal Highway Administration (FHWA).

Besides the meetings, there were several opportunities to share a meal, get to know one another, and see the area. One evening a group of librarians and friends took Jeanne Thomas to dinner as a farewell and to wish her well in her retirement. One of the benefits of conferences such as this is the networking and informal, small group discussions that occur. The conference and the symposium strengthened our international relationships, increased awareness of resources, opened up communication and led to new friendships.

Kaleidoscope: News of Transportation Members

Nelda Bravo announced that the National Transportation Library has a new reference librarian, Jane Watson. Before joining the National Transportation Library at the end of September, Jane was the head of public services at the Marine Corps University Libraries in Quantico, Virginia. Jane can be reached at: Tel: 202-366-8557, Fax: 202-366-3676, jane.watson@bts.gov

John Cherney announced that the WisconsinDOT Library is going through a few changes at the moment. There will be an expanded web presence, hopefully by the end of the year, coinciding with a complete redesign of the entire department's website. Approval was received to automate the library's holdings, a project that will hopefully be completed within a year's time. If server issues work out, the library catalog will be available on the web.

Catherine Cortelyou moves on to a new position. Long-time Harmer E. Davis Transportation Library (HEDTL) reference librarian, Catherine Cortelyou, transferred to a new position within UC Berkeley's Institute of Transportation Studies on Oct. 1st, when she moved to the Institute's Technology Transfer Program. Her new duties will include outreach, reference services and course development, and she will work closely with practicing California traffic and transportation engineers. Though remaining an Institute employee, she will no longer be affiliated with the Transportation Library.

Catherine first came to the Transportation Library in 1975 as a library assistant shortly after completing her master's degree in City Planning. After completing a subsequent Library Sciences M.S. at Berkeley she job-shared the reference librarian position with Elizabeth Carter for a number of years. After Elizabeth's retirement in the early 1980s, Catherine assumed the position full time. Over the ensuing 20+ years Catherine has been active on the UC Berkeley campus with a variety of University and Library committees and has participated in Transportation Division projects.

Tech Transfer will be moving to new quarters in late October, and Catherine will have a phone number assigned at that time. In the meanwhile, she can be contacted through Tech Transfer's general phone number, 510-231-9590. Her e-mail address (ccortely@library.berkeley.edu) will remain the same.

HEDTL will be recruiting a reference librarian in the near future and a link to the job posting will appear on TranLib, the Division's listserv. For the interim, reference services are being provided by veteran Bay Area librarians Rita Evans and Seyem Petrites.

Betty Lou Hicks reports a change in email address and in the Company name. The Company recently changed its name to better reflect all the different types of engineering and architectural projects they handle.

Betty Lou Hicks
Hanson Professional Services Inc.
bhicks@hanson-inc.com

Anne Mackereth left MinnesotaDOT in March 2001 for a job at an academic/health sciences library. She is currently the Public Services Librarian at Greenawalt Library of the Northwestern Health Sciences University in Bloomington, MN. Her phone number is 952-885-5419, ext. 218. Her email address is amackereth@nwhealth.edu

Maryanne Ward, Technical Publications/Library Manager at PACCAR Technical Center, completed the Situational Leadership II training. The training focused on the role of the manager in today's environment in which managers are not so much bosses or judges, but partners, facilitators, supporters, and coaches. Training involved how to use four leadership styles to match the developmental levels of staff members and teams and to set up a communication process for reaching agreements about mutual expectations.

Produced by the Ken Blanchard Companies (the same Blanchard who authored "The One Minute Manager" and other management books), this is really a great course. Maryanne highly recommends it. The training continues and is reinforced through weekly emails in which various workplace scenarios are laid out and an opportunity to apply the training is provided. If you get a chance to take this course, grab it!

Suzan Zimmerman announced that the Road Safety Library of Transport Canada has been closed. The collection will be amalgamated into the collection of the Transport Canada Library. One staff member has gone to the main library. Inquiries on road safety issues should be addressed to the main TC library at 1-613-998-5127 or sent to libreq@tc.gc.ca. Suzan is working elsewhere in the department at the moment, but will be returning to Road Safety in November to manage their web site. Following is the contact information for Suzan:

Suzan Zimmerman
Internet Manager / Gestionnaire de l'Internet
Transport Canada / Transports Canada
zimmers@tc.gc.ca
http://www.tc.gc.ca
Tel: 613-993-4765 Fax: 613-990-0680

2001 TRANSPORTATION DIVISION PROFESSIONAL ACHIEVEMENT AWARD

Presented at the Transportation Division's Annual Business Meeting and Luncheon
Special Libraries Association Annual Conference
San Antonio, Texas - June 12, 2001
By Laura Whyne

The guidelines for the Transportation Division Professional Achievement Award state that this award shall be given to a past or present member of the Division on the basis of outstanding contribution and/or service to the Transportation Division. This contribution and/or service may take the form of contributions to library and transportation literature or bibliography, to the work and effectiveness of SLA and the Division, or to the transportation field through organizational work or publication. The purpose of the award is to honor those who have rendered distinguished service or have made a significant contribution to transportation libraries and librarianship.

I am very pleased to announce that the 2001 recipient of this award is Judy Gutshall, Senior Librarian at the Pennsylvania Department of Transportation's Knowledge Center.

Judy Gutshall has been providing library services for PennDOT since 1979. Judy is active in the Special Libraries Association (both the Central Pennsylvania Chapter and the international-level Transportation Division), the Capitol Hill Libraries Group, and the Transportation

Research Board's Library and Information Services Committee. Judy also serves on an NCHRP Research Panel.

Judy has been a member of SLA since 1981. In the Central Pennsylvania Chapter, she has served on various committees, including Nominating, Membership, and Bulletin Editor. She served as President Elect and President from 1984-1986. She is also a member of the Solo Librarians Division. For the Transportation Division at the SLA Annual Conference in Pittsburgh, she presented a paper on the use of the AASHTO VAN and TRIS database by state DOT's. As part of the Division's program in Cincinnati, she discussed the moving of libraries. Judy has also assisted in the past with organizing the GTRIC program.

Judy is an exemplary role model and leader, who has made significant contributions to the transportation field. She provides exceptional service to her job, peers, and SLA.

Congratulations to Judy Gutshall as the 2001 recipient of the Transportation Division Professional Achievement Award.

**THE TRANSPORTATION DIVISION
PROFESSIONAL ACHIEVEMENT AWARD
CALL FOR NOMINATIONS**

This award shall be given to a past or present member of the Division on the basis of outstanding contributions and/or service to the Transportation Division. This contribution and/or service may take the form of contributions to library and transportation literature or bibliography, to the work and effectiveness of Special Libraries Association and the Transportation Division, or to the transportation field through organizational work or publication. The Award is not made posthumously. The purpose of the Award is to honor those who have rendered distinguished service or have made a significant contribution to transportation libraries and librarianship.

Nominations must be received by January 1st.

Presentation of the Award will be made at the Annual Business Meeting of the Transportation Division. The Executive Board of the Division is the judging committee for this Award.

DATE: _____

NAME OF NOMINEE: _____

ADDRESS OF NOMINEE: _____

PHONE: _____

E-MAIL:

CONTRIBUTION/SERVICE (Use additional paper/pages, if needed):

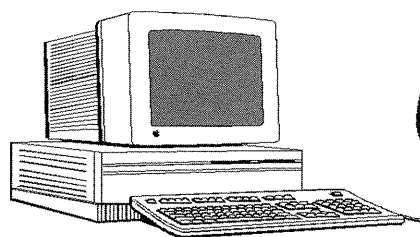
NAME OF THE NOMINATOR: _____

ADDRESS OF NOMINATOR: _____

PHONE: _____

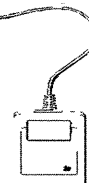
E-MAIL: _____

Send nominations by mail, fax, or e-mail to the current Division Chair.



Web Reviews

by **Christine L. Holiday**
Librarian
Defense Ammunition Center
McAlester, Oklahoma
christine.holiday@dac.army.mil



In the wake of the events of September 11, 2001, I am devoting this page to applicable web sites.

Two sites from the Librarian's Index to the Internet are Academic Information : Afghanistan Studies at www.academicinfo.net/afghan.html and Islamic Studies, Islam, Arabic and religion at www.arches.uga.edu/~godlas/

Academic Information

Afghanistan Studies and Islamic Studies, Islam, Arabic and Religion

The Afghanistan Studies site includes indexes, directories, digital libraries, media sources and organizations. There are sections on the Taliban, Osama bin Laden, Al-Quida and the status of women in the country. The Islamic Studies site is a collection of annotated sites about the Qur'an, Sufism, Sunni, Islam in the modern world, women's rights, art, architecture and more.

Maps.com

WWW.maps.com/explore/attack.html has several maps showing aerial before and after photos of the areas that were attacked. Included are links to the CIA factbooks on Afghanistan and Pakistan and to a political map of the Middle East/Asia.

House of Commons Research Paper 01/72

Go to www.parliament.uk/commons/lib/research/rp2001/rp01-072.pdf for an extensive research report entitled "11 September 2001: the response" from the UK House of

Commons. The report examines the reaction within the US, the UK and the international community. It contains background information on Osama bin Laden, the al-Qaeda network and looks in detail at the situation in Afghanistan, Pakistan and the wider region. It also presents available military options and the relevant issues of international law.

America's War Against Terrorism

From the University of Michigan comes an excellent compilation of information related to the attack. A 34-page listing of links at www.lib.umich.edu/govdocs/usterror.html covers the September 11 attack, previous attacks, airline security, Arab-Americans, disaster preparedness, semantics debate, public opinion polls, think tanks, victims and more.

General Accounting Office

The General Accounting Office (GAO) has special collections pages on terrorism and airport security. Go to the main GAO page at www.gao.gov and you will see the links in the GAO Reports section. The newer reports are available as PDFs; the older ones have to be ordered.

NOTE: the following spellings have been noted for Al Qada:

- Al Qaada
- Al Qaeda
- Al Qa'ida
- Al Qaida
- Al Quaida
- Al Quida

NEW SCIENCE AND TECHNOLOGY JOURNALS

Earl Mounts, Editor

Analytical and Bioanalytical Chemistry. 0937-0633. Editor: S. Daunert et al. Springer. v.1, 2001. 8/year. \$2907.00. <http://link.springer-ny.com/link/service/journals/00216/about.htm>

Analytical and Bioanalytical Chemistry, a merger and also a continuation of Fresenius' *Journal of Analytical Chemistry and Analysis*, is an international journal dealing with all aspects of the analytical and bioanalytical sciences. The journal covers all fields of pure and applied analytical chemistry and bioanalysis, including topics at their interfaces with the life and health sciences, the engineering and materials sciences, environmental science, the earth sciences, and others. Fields covered include chemical, biochemical, biological, and physical methods of analysis (e.g., sensors, bioassays, spectroscopic techniques, chromatography, electrochemistry), instrumentation, sampling and sample preparation, separations, miniaturized systems, chemometrics, quality assurance, method validation and process control.

Catalysts & Catalysed Reactions. 1474-9173. Editor: G. Derouane. Royal Society of Chemistry. v.1, 2002. 12/year. \$596.00. <http://www.rsc.org/is/journals/current/ccr/ccrpub.htm>

Catalysts & Catalysed Reactions is a major new current awareness publication, providing graphical abstracts of new developments in catalysis selected from over 100 primary journals. Coverage includes all areas of catalysis research, including homogeneous, heterogeneous and biocatalysis with emphasis on current growth areas such as chiral catalysts, polymerization catalysts, enzymatic catalysts and clean catalytic methods. The multidisciplinary coverage of *Catalysts & Catalysed Reactions* encompasses research from journals publishing work in inorganic, organic and physical chemistry, and in biochemistry.

Information Fusion. 1566-2535. Editor: B.V. Dasarathy. Elsevier. v.1, 2000. 4/year. \$347.00. <http://www.elsevier.com/inca/publications/store/6/2/0/8/6/2/index.htm>

This journal is intended to present within a single forum all of the developments in the field of multi-sensor, multi-source information fusion and thereby promote the synergism among the many disciplines that are contributing to its growth. The journal is the premier vehicle for disseminating information on all aspects of research and development in the field of information fusion. Articles emphasize one or more of the three facets: architectures, al-

gorithms, and applications. Papers dealing with fundamental theoretical analyses as well as those demonstrating their application to real-world problems are included.

Journal of Computing and Information Science in Engineering (JCISE). 1530-9827. Editor: J.J. Shah. American Society of Mechanical Engineers. v.1, 2001- 4/year. \$215.00. http://asudesign.eas.asu.edu/links/journal_new/index.html

The *Journal of Computing and Information Science in Engineering (JCISE)*, sponsored by the ASME Computers and Information in Engineering Division (CIE), published its first issue in March 2001. The purpose of the journal is to publish archival research results and advanced technical applications in computing techniques and tools, information issues of representation, exchange, management and integration related to the entire engineering product and process life cycle. Specific topic areas include Internet-aided design; virtual environments and systems; rapid prototyping; information models and ontologies for engineering applications; and software development for design and manufacturing.

Journal of Hydrometeorology. 1525-755X. Editor: D.P. Lettenmaier. American Meteorological Society. v.1, 2000. 6/year. <http://www.ametsoc.org/AMS/>.

The *Journal of Hydrometeorology* publishes research related to the modeling, observing, and forecasting of processes related to water and energy fluxes and storage terms, including interactions with the boundary layer and lower atmosphere, and including processes related to precipitation, radiation, and other meteorological units.

Journal of Proteome Research. 1535-3893. Editor: W.S. Hancock. American Chemical Society. v.1, 2001. 6/year. \$725.00. <http://pubs.acs.org/journals/jprobs/>

Promoting a multidisciplinary approach to systems-oriented protein analysis and function, this new research journal from ACS will integrate the fields of chemistry, biology, applied physics, and computer science. Primary topics will include new approaches to sample preparation, including 2-D gels and chromatographic techniques; structural genomics data related to protein function; metabolic and signal pathway analysis, including metabolomics and peptidomics; and computational approaches to predict protein function.

Land Rover Enthusiast. Editor: J. Taylor. v.1, 2000. 12/year. \$80.00.

<http://www.landroverenthusiast.com/default.htm>

This new publication has become the most authoritative, useful and inspirational Land Rover magazine in the world.

Optimize. Editor: B. Gillooly. CMP Media. v.1, 2001. 12/year. \$195.00. <http://www.optimize.com/>

Optimize is the new publication for business-technology leaders from the editors of *InformationWeek*. Beginning publication on November 15, 2001, it will unite the two halves of your career, bringing you the business acumen and technological reality you need to succeed. Each issue will introduce you to new business-technology theories against a background of real-world situations.

Photochemical & Photobiological Sciences. 1474-905X.

Editors: F. Wilkinson and T. Vidóczy. Royal Society of Chemistry. v.1, 2002. 12/year. \$1,091.00

<http://www.rsc.org/is/journals/current/ppspub.htm>

Photochemistry and photobiology are growing areas of scientific importance. The period 1995 to 2000 has seen a growth in citations of approximately 40% in the area of photobiology and approximately 25% in photochemistry. Research is increasing into the interaction of the environment with living systems and into areas in which environmental factors affect health or in which light is a cost-effective catalyst or alternative source of energy. The new RSC journal *Photochemical & Photobiological Sciences* will meet the growing information needs of scientists working in these areas. This international journal will be published monthly on behalf of the European Society for Photobiology (ESP) and the European Photochemistry Association (EPA) and will be available in both print and electronic formats from January 2002.

SCI-TECH BOOK NEWS REVIEWS

Ellis Mount, Selector

The following section consists of 100 book reviews selected from the September issue of Sci-Tech Book News, reprinted with the permission of Book News Inc. This review journal is published four times a year, each issue reviewing over 2,000 new titles in the physical and biological sciences, mathematics, engineering, computer science, technology, and agriculture. For a sample issue and subscription information, contact Book News Inc. at 5739 NE Sumner Street, Portland, Oregon 97218. Ph:(503)281-9230; Fax: (503)287-4485; E-mail: erskine @booknews.com.

PRODUCTION, INDUSTRY, COMMERCE

HD30 00-63310 0-471-37655-8

The art of strategic planning for information technology, 2d ed.

Boar, Bernard H.

John Wiley & Sons, 2001 343 p. \$59.99

Portraying the world of information technology as a war zone, Boar sprinkles his advice with quotes from military and political strategists of the past and present. His topics include managing information technology for competitive advantage, assessment, execution, quality control, and administration. He also appends aphorisms of strategy, and includes a glossary without pronunciation guides. The second edition is said to be half new; no date is noted for the first.

HD45 00-699086 0-471-31546-X

Managing technological innovation.

Ettlie, John E.

John Wiley & Sons, 2000 381 p. \$56.95 (pa)

Asserting that most new products and services require at least some, and sometimes extensive, changes in operations and information systems, Ettlie (Rochester Institute of Technology) approaches technological change from the broad perspective of managers and professionals who must thrive and prosper in modern organizations. Shadowing the progression of a typical life cycle of a technological innovation, he discusses, getting started, planning innovation, new products and processes, and managing future technologies.

HE7631 2001-16578 1-878289-96-9

Managing telecommunications and networking technologies in the 21st century; issues and trends.

Title main entry. Ed. by Gerald Grant.

Idea Group Publishing, 2001 268 p. \$74.95 (pa)

An international group of specialists in academic and commercial environments have provided papers on the latest aspects of their industry, edited by Grant (information systems, Carleton U., Ottawa, Canada). Among the topics they consider are: making gigabit Internet available to all, adaptive mobile applications,

space-time wireless communications, SDMA and intelligent antennas, virtual private networks, global competition and cooperation in standardization, the Chinese experience, the impact of deregulation in Hong Kong, new connectivity options in Sub-Saharan Africa, management challenges of broadband networking, the implementation of statewide information policy in New York, and comparing cellular phone adoption in France and the US.

HF5548 0-7695-1224-0

E-commerce and web-based information systems; proceedings.

International Workshop on Advance Issues of E-Commerce and Web-Based Information Systems (3rd: 2001: San Jose, CA).

Computer Society Press, 2001 231 p. 140.00 (pa)

Thirty papers from the June 2001 conference in San Juan, California cover topics like web-based applications and interfaces, data management, integrating services and software, Internet transactions and workflows, automating services, and Web infrastructures. Pricing and e-sourcing are also discussed. Name index only.

MATH, COMPUTERS

QA47 00-104372 0-12-382251-3

Handbook of mathematical formulas and integrals. 2nd ed.

Jeffrey, Alan.

Academic Press, 2000 433 p. \$49.95 (pa)

A compilation of formulas, functions, relations and methods from algebra, trigonometric and exponential functions, combinatorics, probability, matrix theory, calculus, differential equations, Fourier series, and orthogonal polynomials. The second edition adds two chapters on the z-transform and numerical approximation.

QA76 0-13-089402-8

Capacity planning for internet services; quick planning techniques for high growth rates.

Cockcroft, Adrian and Bill Walker.

Prentice Hall, 2001 221 p. \$32.00 (pa)
Assuming there is very little time or expertise available for the task, systems engineer Cockcroft and information technology architect Walker provide detailed recipes for performing capacity planning tasks for high-growth-rate Internet services. They assume no previous background in capacity planning, and avoid the detailed mathematics of queueing theory as much as possible.

QA76 0-7695-1177-5
Computers and communications; proceedings.
IEEE Symposium on Computers & Communications (6th: 2001: Hammamet, Tunisia).

Computer Society Press, 2001 737 p. \$190.00 (pa)
Papers from a July 2001 symposium shed light on practical problems related to the design, deployment, and use of information and networking systems. They are presented in sections on security and authentication, World Wide Web and distributed systems, multicast communications, optimization of wireless networks, ATM traffic analysis, quality of service, MPLS and routing, packet video communications, and packet voice. Other topics include satellite communications, network management and traffic scheduling, mobile IP, mobile architecture, quality of service in wireless networks, channel coding, performance analysis of wireless networks, access protocols and LANs, testing and formal verification, electronic commerce systems and software, and TCP/IP issues. This volume lacks a subject index.

QA76 0-7695-1140-6
Database engineering and applications symposium; proceedings.

International Database Engineering and Applications Symposium (IDEAS 2001) (2001: Grenoble, France) Ed. by Michel Adiba et al.

Computer Society Press, 2001 368 p. \$155.00
The proceedings from the July 2001 conference in Grenoble, France comprise 40 chapters, representing invited addresses, short papers, and longer papers on topics like queries, physical data structures, schemas and versions, OLAP, federated data sources, distributed systems, data warehousing, and data mining. Specific attention is given to non-traditional applications and semi-structured data; numerous papers deal with the Web, XML, geographical databases, and genetic databases. Author index only.

QA76.54 00-43924 0-471-35490-2
Real-time systems and software.

Shaw, Alan C.
John Wiley & Sons, 2001 215 p. \$61.95 (pa)
Shaw (University of Washington) describes fundamental concepts, principles, and methods for specifying, designing, and implementing real-time computer systems. Coverage includes such topics as software

architecture, informal and formal specification methods, deterministic scheduling, execution time analysis, computer clocks and time services, real-time programming languages, and operating systems. The book contains specification methods for requirements and designs, including tables, data flow diagrams, real-time logic, and state machines. An appendix features a comprehensive project on air traffic control.

QA76.54 0-7695-1134-1
Real-time technology and applications symposium; proceedings.

IEEE Real-Time Technology and Applications Symposium (7th: 2001: Taipei, Taiwan).

Computer Society Press, 2001 237 p. \$140.00 (pa)
Thirty contributions, written by a group of international practitioners, developers, and researchers from universities, industry, and government address the principles, theory, and practice of real-time technology. Sessions presented at the symposium addressed real-time process scheduling, quality of service, resource management, works-in-progress, system implementation, and software design. Approaches to the material ranges from a mechanism for quality of service management and a system for voice over IP routing in application layer to the results of research into simulation-based debugging of soft real-time applications and case studies in predictable application scheduling. Lacks a subject index.

QA76.73 0-7695-1101-5
Dependable systems and networks; proceedings.

International Conference on Dependable Systems and Networks (2001: Göteborg, Sweden).

Computer Society Press, 2001 529 p. \$175.00 (pa)
Proceedings of a July 2001 conference, covering all aspects of dependability in classical and networked computer systems, as well as topical areas in IT. There is a special focus on safety and security issues in embedded, multimedia, and Internet applications. Papers are in sections on modeling, algorithms, software demos, replication, software robustness, survivability and security, wireless and mobile communications, real-time, testing and runtime error detection, models for fault tolerance, hardware architecture and design, group-oriented systems, and practical experiences. Specific topics include model-based synthesis of fault trees from MATLAB, a dynamic replica selection algorithm for tolerating timing faults, constructing self-testable software components, and intrusion-tolerant group management in enclaves. This volume lacks a subject index.

QA76.9 00-69526 0-7356-1271-4
Data mining with Microsoft SQL server 2000 technical reference.

Seidman, Claude.

Microsoft Press, 2001 367 p. \$49.99

This guide to uncovering hidden information and meaningful patterns in large databases uses two sample databases to illustrate how to build a data-mining model. The author explains the SQL server analysis services architecture, data storage methods, how to create decision trees with online analytical processing (OLAP), the clustering method, data transformation services, decision support objects, the schema rowsets, data mining using PivotTable services, and prediction queries. An appendix discusses regression analysis.

QA76.9 00-53893 1-878289-77-2

Information modeling in the new millennium.

Rossi, Matti and Keng Siau.

Idea Group Publishing, 2001 515 p. \$129.95

Scholars and practitioners from both sides bridge the gap between technical and business approaches to modeling information, providing their colleagues in information modeling with information about current developments and trends. The treatment should help readers select strategies and frameworks for systems development, especially as new multi-tier system and architectures, and increased on-line provision of critical services emerge. The 27 studies are presented in sections on the foundations of information modeling, language and ontological perspectives, object-oriented modeling and its extensions, applied information modeling, and hypermedia and Web systems modeling.

QA76.9 00-50244 0-8493-0880-1

Information security risk analysis.

Peltier, Thomas R.

Auerbach Publishers, 2001 281 p. \$59.95 (pa)

Introduces risk analysis techniques that can be used to identify and quantify both accidental and malicious threats to computer systems within an organization. The author walks through the qualitative risk analysis process using such techniques as the practical application of risk analysis (PARA) and the facilitated risk analysis process (FRAP). A case study of a truck rental company illustrates application of the method. The appendices provide a questionnaire and sample process forms.

QA76.9 00-68486 0-471-38922-6

Security engineering; a guide to building dependable distributed systems.

Anderson, Ross J.

John Wiley & Sons, 2001 612 p. \$59.99 (pa)

Presents an accessible discussion of security engineering basics, from protocols to distributed systems, and explains protection technologies such as biometrics, tamper resistance, security seals, and copyright marketing. Describes what sort of attacks are done on a range of systems, including banking, medical records, and e-commerce, and tells how to stop attacks. There is also

discussion of how computer security interacts with the law and with corporate culture. Anderson directs research in computer security at Cambridge University, England.

QA278 00-54359 0-8058-3593-8

New developments and techniques in structural equation modeling.

Marcoulides, George A. and Randall E. Schumacker.

Lawrence Erlbaum, 2001 333 p. \$89.95

Introduces the latest developments in the field of structural equation modeling (SEM), with emphasis on applications and a minimum of mathematical proofs. Most chapters are written by researchers who originally proposed the technique or contributed substantially to its development. Content highlights include latent variable mixture modeling, multilevel modeling, interaction modeling, models for dealing with nonstandard and noncompliance samples, analysis of growth curve and longitudinal data, and item parceling. Of interest to psychologists, biologists, medical researchers, and other social and health scientists. Assumes a previous graduate-level multivariate statistics course covering SEM techniques. Marcoulides teaches statistics at California State University-Fullerton. Schumacker teaches educational research at the University of North Texas.

QA403 0-19-850165-X

Classical and modern methods in summability.

Boos, Johann and Peter Cass. (Oxford mathematical monographs)

Oxford U. Pr., 2000 586 p. \$130.00

This graduate-level textbook provides a broad introduction to summability theory and develops some of its most important methodology. Distinguishing between classical ('hard') methods and modern ('soft') methods which are essentially based on analytical and functional analytic methods, respectively, chapters outline both types of methods and combinations of the two, with special attention to topics like convergence and divergence, matrixes, Tauberian theorems, applications, topological sequence spaces, consistency, Saks spaces, and bounded domains. Boos teaches mathematics at the FernUniversität-Gesamthochschule. Cass teaches mathematics at The University of Western Ontario.

QA927 0-12-219740-2

Acoustic and electromagnetic scattering analysis

Doicu, Adrian et al.

Academic Press, 2000 317 p. \$79.95

For graduate engineering and physics students and researchers in scattering theory with at least a minimal background in functional analysis, Doicu (chemical and process engineering, U. of Bremen, Germany), Yuri Eremin (applied mathematics and computer science, Moscow State U.) and Thomas Wriedt (particle technology and characterization, Institute für

Werkstofftechnik, Bremen) combine their different insights to present a mathematically rigorous and self-contained treatise on using discrete sources in scattering theory. They include only their own research results, but reference others.

ASTRONOMY

QB981 0-465-03673-2

Just six numbers; the deep forces that shape the universe.

Rees, Martin.

Basic Books, 2000 195 p. \$14.00 (pa)

Astronomer Rees (Cambridge U.) describes new theories in speculative cosmology in language accessible to the lay reader. The "six numbers" in the title refer to six constant values that describe and define everything from the way atoms are held together to the amount of matter in the universe. Coverage includes the relationship between the cosmos and the microworld, gravity, the periodic table, dark matter, planets, stars, and life in the universe.

PHYSICS

QC168 00-106364 0-12-086430-4

Handbook of shock waves; 3v.

Title main entry. Ed. by Gabi Ben-Dor et al.

Academic Press, 2001 2102 p. \$1,500.00

After a chapter outlining the history of shock wave, the first volume of this three-volume set focuses on theoretical, experimental, and numerical techniques, with discussion of such topics as general laws for propagation of shock waves through matter; shock waves in gases, liquids, solids, and in space; rarefaction shocks; geometrical shock dynamics; and shock tubes and tunnels. The second volume, on shock wave interactions and propagation, deals with topics connected with one- and two-dimensional interactions, axisymmetric shock wave reflections, shock waves in channels, applications in medicine, shock-induced instability of interfaces, and shock wave propagation in multi-phase media. The third volume is on chemical reactions. Coverage includes various aspects of chemical and combustion kinetics as well as detonation waves in gaseous explosives. The three editors are affiliated with Ben-Gurion University of the Negev; 47 scientists from 15 countries contributed to this essential reference for those in the field.

QC191 00-106894 0-12-445760-6

Handbook of elastic properties of solids, liquids, and gases; 4v.

Title main entry. Ed. by Moises Levy et al.

Academic Press, 2001 1948 p. \$1,500.00

This comprehensive four-volume reference has the potential to save a great deal of time for design engineers who would otherwise have to paw through the contents of

hundreds of journals and papers to access information regarding the elastic properties of particular materials. Beyond what past efforts have supplied in the form of tables which need vigilant updating this handbook encompasses "...both the real and complex components of the elastic properties of solids, liquids and gases, as well as the modern and archival theory and techniques relating to the methods of obtaining the actual values" (from the foreword). The three editors-in-chief are Moises Levy (U. of Wisconsin-Milwaukee), Henry E. Bass (U. of Mississippi) and Richard R. Stern (Penn State University); each volume also has its own editors. The four books are titled as follows: Dynamic methods for measuring the elastic properties of solids (v.1); Elastic properties of solids theory, elements and compounds, novel materials, alloys, building materials (v.2); Elastic properties of solids biological and organic materials, earth and marine sciences (v.3); and Elastic properties of fluids liquids and gases (v.4).

QC638 1-56072-917-1

Inductance and force calculations in electrical circuits.

Bueno, Marcelo De Almeida and Andre Koch Torres Assis.

Nova Science Publishers, 2001 134 p. \$89.00

The Brazilian scientists deal with calculating the force between two current-carrying circuits, calculating the net force on a part of a closed circuit, calculating the mutual inductance between two circuits (or of the magnetic interaction energy between them) and, and calculating the self-inductance of a single closed circuit (or of the self-energy to form this circuit). They intend their work as a complementary text in graduate and undergraduate courses on electromagnetism, electrical circuits, mathematical methods of physics, and the history and philosophy of science. A Portuguese version, Cálculo de Indutância e de Força em Circuitos Elétricos, was published in 1998 by UFSC/Editora de UEM.

QC665 00-68702 1-884932-10-X

Electromagnetic field measurements in the near field.

Trzaska, Hubert.

Noble Publishing, 2001 219 p. \$69.00

EMF measurement expert Hubert Trzaska discusses the specific problems of EMF measurement in the near field and the main factors limiting measurement accuracy. He describes methods that provide the most accurate data to aid in the development of new, improved standards for labor safety and general public protection against unwanted exposure to EMF. The text examines measuring methods for EMF, electric fields and magnetic fields, power density, and photonic EMF.

QC783 2001-025210 0-8493-0215-3

Handbook of particle physics.

Sundaresan, M.K. (CRC series in pure and applied physics)

CRC Pr., 2001 446 p. \$49.95

Literally thousands of elementary particles have been discovered over the last 50 years, their properties measured, and their behavior explained in numerous theories. This work explains terms in particle physics, including its peculiar jargon, for scientists in other fields. In encyclopedic form it covers relevant experimental and theoretical techniques, along with terms from related fields of astrophysics and cosmology. Includes historical overviews, reviews of theories, descriptions of research methods, and lists of particle accelerators and detectors. Designed for nonspecialists with a basic knowledge of quantum mechanics and relativity, entries preserve a degree of rigor by providing technical and mathematical details.

CHEMISTRY

QD71 00-42282 0-471-97670-9

Encyclopedia of analytical chemistry; applications, theory, and instrumentation; 15v.

Title main entry. Ed. by R.A. Meyers.

John Wiley & Sons, 2000 13970 p. \$6,000.00

A 12-member international advisory board comprising representatives from the US, Sweden, Germany, Australia, and the UK oversaw creation of this first encyclopedia of analytical chemistry, which is the most comprehensive work on the subject to date, containing work from more than 800 authors, perused by more than 600 peer reviewers, and assembled through what must have been the Herculean efforts of editor Meyers (RAMTECH Ltd., Tarzana, Calif.) overseeing 42 section editors. According to Meyers, this 15-volume reference has "twice the depth of any other such compendium, such that a chemist (organic, polymer, inorganic, biochemist, molecular biologist as well as, of course, an analytical chemist), or a physicist or engineer (environmental, industrial or materials) can find all the essential information required to analyze any analyte in any matrix for any purpose or application, interpret the results and also gain a thorough knowledge of the theory and instrumentation utilized." The 633 articles are organized according to the recent-literature summation sections comprising the annual Applications literature review and Fundamentals review of the venerable journal Analytical Chemistry (almost half the section editors have served as corresponding editors). Additional sections address subjects that are not covered in the review issues, such as biomedical spectroscopy, biomolecules analysis, chemical warfare chemicals analysis, nucleic acids analysis, and remote sensing. The first ten volumes present 24 applications sections in alphabetical order. These include carbohydrate analysis, coatings, environment (trace gas

monitoring and water and waste), food, industrial hygiene, nucleic acids structure and mapping, pesticides, pharmaceuticals and drugs, and pulp and paper. The next five volumes present the 16 theory and instrumentation sections, beginning with atomic spectroscopy and concluding with X-ray spectrometry. General articles and the 170-page index are also included in the 15th volume. As of this date, no electronic version has been announced.

QD261 2001-017672 0-471-24909-2

Microscale techniques for the organic laboratory, 2d ed.

Mayo, Dana W. et al.

John Wiley & Sons, 2001 319 p. \$44.95 (pa)

"The text is designed to give a working view of the manipulative techniques and theory that one must master when undertaking experimental chemistry at the microscale level. The areas discussed are principally techniques that are used in the preparation, isolation, purification, and characterization of organic reaction products and naturally occurring materials....[The authors] have included a selected set of experimental details in a few cases where relatively complex techniques are involved" (from the Preface). Chapters introduce microscale organic laboratory equipment and techniques and also cover safety, determination of physical properties, solids, organic qualitative analysis, and preparation of derivatives. A glossary is included.

QD291 99-43801 0-8412-3648-8

Nomenclature of organic compounds; principles and practice, 2d ed.

Fox, Robert B. and Warren H. Powell.

American Chemical Society, 2000 437 p. \$195.00

Compiles and clarifies the rules for naming and identifying the composition and molecular structure of organic substances. Fox (Naval Research Laboratory) and Powell (retired member of the IUPAC) describe nomenclature for compounds that serve as parent hydrides for naming organic compounds, then address compound classes organized by means of various suffixes or classes names used in naming them. They propose novel nomenclature where needed, and identify common errors to illustrate some misuses of nomenclature. The second edition incorporates changes that have occurred in the words and syllables used to describe structures and substances since 1974. Co-published by Oxford U. Press.

QD516 2001-033125 1-930217-05-6

Theoretical and numerical combustion.

Poinsot, Thierry and Denis Veynante.

R.T. Edwards, Inc., 2001 473 p. \$89.00 (pa)

Presenting basic techniques, this book describes the recent progress in numerical combustion while establishing important connections with the underlying combustion basics. It is intended to enable engineers and

research specialists with a knowledge of fluid mechanics to move to an integrated understanding of numerical combustion. It includes information on classification, interactions, implications, and explorations of RANS, LES, and DNS modeling. Chapters focus on conservation equations, laminar premixed flames, laminar diffusion flames, turbulent combustion, turbulent premixed flames, turbulent non-premixed flames, flame/wall interactions, flame/acoustic interactions, and boundary conditions. Poinot teaches at the Institut de Mécanique de Fluides de Toulouse. Veynante teaches at the Ecole Centrale Paris.

BIOLOGY

QH427 1-884964-34-6

Encyclopedia of genetics.

Title main entry. Ed. by Eric C.R. Reeve and Isobel Black. Fitzroy Dearborn Publ., 2001 952 p. \$150.00

This reference comprises contributions from geneticists from all over the world. The articles are not brief summaries for a general audience; they are, rather, substantive treatments of the topics, each with lists of references, primary documents, and further reading suggestions, as well as glossary entries (which are compiled at the end of the volume). After two introductory articles on genetics for newcomers and techniques in molecular genetics, about 150 articles are arranged in sections on the origins of genetics, bacteria and viruses, *Drosophila* and other insects, eukaryotic micro-organisms and their organelles, mouse genetics, other mammals, human clinical and non-clinical genetics, plants, cell organelles structure and function, DNA-based genetic analysis and biotechnology, model organisms, and population genetics and evolutionary studies. An appendix lists useful web sites. Editor Reeve is affiliated with the U. of Edinburgh.

TECHNOLOGY (GENERAL)

T55 99-52958 0-8412-3670-4

Handbook of chemical health and safety.

Title main entry. Ed. by Robert J. Alaimo, editor. American Chemical Society, 2000 652 p. \$195.00

The 86 articles are intended to comprise the most complete and comprehensive resource on chemical health and safety, replacing many earlier texts, and be the first place chemists, chemical hygiene officers, and safety specialists will look for answers to both simple and complex problems. Specialists in different topics, almost all from the US, cover safety management and policy, risk management, emergency management, laboratory equipment, chemical management, radiological and biological safety, laboratory design, and environmental management. Each entry contains its own bibliography of sources for further information. Co-developed and distributed by Oxford University Press.

T58 00-702881 0-471-38919-6

Information technology for management; making connections for strategic advantage, 2d ed., update.

Turban, Efraim et al.

John Wiley & Sons, 2001 791 p. \$95.95

This text emphasizes the innovative uses of information technology within a real-world managerial orientation and stresses the relevance of information technology to major functional areas. After introductory material on the foundations of information systems and their strategic use, discussion continues with computer networking, applications of telecommunications networks, the role of the Internet and electronic commerce, the use of information systems in daily operations, and issues of planning, security, and operation of information systems. This second (updated) edition reflects developments in the field since 1999. Turban is affiliated with City University of Hong Kong.

T58 1-930708-07-6

Managing information technology in a global environment; proceedings.

Information Resources Management Association International Conference (2001: Toronto, Canada).

Idea Group Publishing, 2001 1202 p. \$199.95 (pa)

Proceedings of the May 2001 conference. Approximately 260 contributions suggest ways to meet the challenges of utilizing current information technology resources. Some of the numerous topics covered include distance learning, IT/community partnerships, evaluation methods, ethics issues, virtual organizations, enterprise resources, information modeling methods, project management, social responsibility issues, text databases and document management, environmental information, software engineering, decision support technologies, information security management, global management, and the human side of IT.

ENGINEERING (GENERAL, CIVIL)

TA174 0-7695-1206-2

Rapid system prototyping; shortening the path from specification to prototype; proceedings.

IEEE International Workshop on Rapid System Prototyping (12th: 2001: Monterey, CA) Spons. by IEEE ComSoc Tech. Comm. on Design Automation.

Computer Society Press, 2001 206 p.

\$135.00 (pa)

The proceedings from the June 2001 conference in Monterey, California include 30 papers on hardware case studies, reconfiguring computing, communications systems, distributed prototyping, systems modeling, model-based prototyping, efficient evaluation, methodologies, and tools. Keynote addresses on rapid prototyping of computer systems, and on the Colorado Advanced Software Institute are also featured. Name index only.

TA357 00-102170 0-19-850743-7

Applied shape optimization for fluids.

Mohammadi, B. and O. Pironneau. (Numerical mathematics and scientific computation)

Oxford U. Pr., 2001 251 p. \$60.00

In addition to shape optimization problems for fluids, this book also explores the numerical simulation of optimization under fluid and structure coupling. Mohammadi (University of Montpellier) and Pironneau (University of Paris) introduce automatic differentiation, approximate gradients, and automatic mesh refinement as tools for optimal shape design, and present results for flow control problems at various Mach and Reynolds numbers that illustrate applications in the aerospace and automobile equipment industries.

TA357 1-86058-352-0

Computational fluid dynamics in practice.

Title main entry. Ed. by N. Rhodes.

Professional Engineering Pub., 2001 200 p.

\$124.00

Papers from a recent seminar discuss challenging applications in computational fluid dynamics (CFD) and identify techniques which are likely to occur in the next generation of codes. Specific topics include numerical accuracy in CFD, comparison of a conventional RANS and a lattice gas dynamics simulation, the validation of rapid CFD modeling for turbomachinery, and numerical determination of windage losses on high-speed rotating discs. Other subjects include using CFD to investigate combustion in a cement manufacturing process, validation of the coal combustion capability in the star-CD code, blast wave simulation, and built environments using CFD. Rhodes is chairman of the Institution of Mechanical Engineers' Energy Transfer and Thermofluid Mechanics Group. Distributed by ASME.

TA403 0-7506-4692-6

Building services handbook.

Hall, Fred and Roger Greeno.

Butterworth-Heinemann, 2001 465 p. \$29.95 (pa)

Uses diagrams and brief explanations to summarize all elements of building services. Practice, techniques, and procedures are defined with supplementary references to regulations and relevant standards. There are sections on areas including water supply, heating systems, fuel storage, ventilation, sewage treatment, gas installation, electrical supply, security, and renewable energy. Useful as a text for construction and building services students, and as a reference for building service technicians. Hall formerly lectured in building services and equipment at Guildford College. Greeno formerly lectured at the University of Portsmouth.

TA404 00-63016 1-56700-152-1

Handbook of mechanical properties of structural

materials at a complex stress state.

Lebedev, A.A. et al.

Begell House, 2001 500 p. \$135.90

This volume, extensively updating the authors' 1983 volume published by Naukova Dumka Publishers (Kiev, Ukraine), presents much new information on the mechanical properties of various structural materials under conditions of a complex stress state, including low- and high-temperature behavior. It aims to systematize the results of such investigations, presenting them in the form of plots and tables that are convenient to use. The introductory part addresses general problems in the mechanics of materials and methods of their testing. Experimental data presented offers the results of testing only the most typical homemade materials; reasonable, they argue, because the results can be extended to any material of the corresponding class. Intended for specialists in the mechanics of materials concerned with various aspects of the theories of plasticity and strength, as well as researchers, engineers, and technicians engaged in designing machines and engineering structures. Lacks a subject index.

TA409 00-50684 0-306-46477-2

Ageing studies and lifetime extension of materials.

Title main entry. Ed. by Leslie G. Mallinson.

Kluwer Academic/Plenum, 2001 690 p. \$115.00

Materials scientists and chemists document a July 1999 international conference in Oxford, England, with 74 papers on predicting whether a material, component, or assembly will remain in a reliable, safe, and serviceable condition throughout its expected useful lifetime. They cover observing and understanding real-time and accelerated ageing, experimental techniques, modelling and theoretical studies, predicting and validating lifetime, lifetime extension, and material design for ageing. The plenary papers discuss high-pressure gas pipelines, ageing studies of nuclear waste forms, and plutonium aging.

TA418 0-85404-885-5

Clean technology for the manufacture of speciality chemicals; proceedings.

Clean Technology for the Manufacture of Speciality Chemicals Symposium (2000: Manchester, UK). Ed. by W. Hoyle and M. Lancaster.

Royal Soc. of Chemistry, 2001 103 p. \$89.95

Papers from a September 2000 symposium discuss the cost of waste to the specialty chemicals sector, give examples of sharing best practice within the sector, and show how a leading pharmaceutical company has developed green metrics. They examine the potential of process intensification, and present case studies of how generic oxidation and nitration reactions can be significantly greened. They discuss the role of catalysis in the specialty chemicals industry, and give examples

showing the scope for transforming the industry to provide similar benefits to those obtained in the bulk chemical industry. A final paper looks at the common problem of solvent recycling with a case study of successful recycling of complex solvent mixtures.

TA459 00-46881 0-87170-690-3

Electrical and magnetic properties of metals.

Title main entry. (ASM ready reference)

ASM International, 2000 285 p. \$149.00

Provides materials engineers and scientists with a comparative listing of materials and their magnetic and electrical properties to aid in the materials selection process. The materials are sorted by a common materials hierarchy, and their property values are given in a consistent system of International Standard and customary units. The quality of the data and source of the data also are given to enable the user to assess the data. The 36 tables survey volume conductivity at ambient temperature, volume resistivity at high and low temperatures, thermal coefficient of resistivity, superconductors, relative permeability, coercive force, peak induction, residual induction, and curie temperature. No index.

TA483 00-46475 0-87170-691-1

Woldman's engineering alloys, 9th ed.

Woldman, Norman Emme. Ed. by John P. Frick.

ASM International, 2000 1363 p. \$239.00

New edition of a reference that presents the values of properties typical for the most common alloy processing conditions, thus providing a starting point in the search for a suitable material that will allow, with proper use, all the necessary design limitations to be met (strength, toughness, corrosion resistance and electronic properties, etc.) The data is arranged alphabetically and contains information on the manufacturer, the properties of the alloy, and in some cases its use. The volume includes 32 tables that present such information as densities, chemical elements and symbols, physical constants, conversion factors, specification requirements, and compositions of various alloys and metals. Also contains a section on manufacturer listings with contact information. Edited by Frick, a professional engineering consultant.

TA595 2001-22387 1-57504-075-1

GPS for land surveyors, 2d ed.

Van Sickle, Jan.

Ann Arbor Press, 2001 284 p. \$69.95

In this update of the 1996 edition, a veteran licensed surveyor aims for a middle ground between clueless handlers of user-friendly GPS receivers and surveyors who need to understand and practically apply the technology and resulting coordinates. Van Sickle covers survey design, observation, post-processing, and the RTK (real-time kinematic) method. Includes chapter

exercises with an answer key, and a glossary of terms from "absolute positioning" to "Zulu time." The author has taught advanced surveying at the Denver Institute of Technology, and is now with Qwest Communications.

TA658 90-5410-293-4

Dynamic analysis and earthquake resistant design; v.3.

Title main entry. Japanese Society of Civil Engineers.

A.A. Balkema, 2001 304 p. \$82.50

A working group of the Society explains the basic knowledge necessary to understand earthquake engineering in general and to analyze the dynamic response of civil structures. The third volume is devoted to dams that generate electricity and maintain the natural water resources, and industrial facilities including power-generating stations, storage tanks, and piping at nuclear power stations. The Japanese original was published in 1989 by Gihodo Shuppan, Tokyo; the English translation has not been updated to account for findings from the 1994 Northridge or 1995 Kobe earthquakes.

TA710 2001-18218 0-7844-0552-2

Soft ground technology; proceedings.

Soft Ground Technology Conference (2000: Noordwijkerhout, Netherlands). Ed. by James L. Hanson and Ruud J. Termaat. (Geotechnical special publication; no.112)

Am. Soc. Civil Engineers, 2001 500 p. \$59.00 (pa)

Contains 37 papers from the May 2000 conference related to laboratory and field characterization of soft ground, soft ground microstructure, stabilization methods, embankments, tunneling, geosynthetics, and environmental aspects of soft ground. The papers review recent theoretical advances, design methods, prediction methods, and laboratory and field behavior of soft soils. A number of large construction projects are presented as case histories, and recent developments in soft ground research are emphasized with data reported from global field test sites.

TA712 90-5809-176-7

Shotcrete; engineering developments; proceedings.

International Conference on Engineering Developments in Shotcrete (2001: Hobart, Tasmania, Australia) Ed. by E. Stefan Bernard.

A.A. Balkema, 2001 255 p. \$90.00

The rapidly developing technology of shotcrete is supplanting traditional methods of ground support; it offers engineering and economic advantages in a number of applications. These 33 papers from an April 2001 conference in Hobart, Australia, focus on recent technical developments that may lead to significant improvements in the way shotcrete is used. Many of the papers address the design of shotcrete linings; most present original material developed in labs around the world. Indexed by

author but not by subject.

TA1520 00-102863 0-8247-9960-7

Handbook of optical engineering.

Title main entry. Ed. by Daniel Malacara and Brian J. Thompson. (Optical engineering; v.73)

Marcel Dekker, 2001 978 p. \$195.00

Like Malacara himself, many of the contributors are from the Centro de Investigaciones en Optica in León, Mexico; most of the others are from the US, and a couple from Europe. They compile relevant data to allow optical engineers to meet their day-to-day challenges, focusing on engineering and technology rather than on theoretical science. They consider such topics as basic optics, reflective optical components, some lens optical devices, telescopes, spectrometers, basic interferometers, full-field methods for the optical metrology of diffuse objects, Fourier optics and image processing, radiometry, lasers, and optical fabrication.

TA1540 00-100092 1-886801-96-7

Holograms and holography; design, techniques, and commercial applications. (CD-ROM included)

Vacca, John R. (Advances in computer graphics and game development)

Charles River Media, 2001 676 p. \$59.95

Ohio-based information technology specialist Vacca explains to intermediate to advanced holography professionals how to design and create holographic applications for experimental, commercial, military, and private use. He combines hands-on examples to help readers gain experience and skills, with background knowledge needed to deploy and use applications that integrate data, voice, and video. The disk reproduces all the images from the book, and also contains animation files, files relating to Web sites, and recent sample issues of relevant periodicals.

TA1677 00-102821 1-58488-230-1

The mathematics of thermal modeling; an introduction to the theory of laser material processing.

Dowden, John Michael.

Chapman & Hall / CRC, 2001 291 p. \$79.95

Arguing that engineers who use lasers in material processing cannot rely on numerical analysis software alone, but need to have a firm grasp of the physical principles involved, Dowden (mathematics, U. of Essex) introduces the mathematics for formulating and exploiting those principles in order to model various aspects of laser material processing. The level of mathematical sophistication varies, but most of the material should be accessible to graduate students in materials science and to engineers encountering laser processing for the first time.

HYDRAULIC ENGINEERING

TC203 00-69525 0-7844-0549-2

Coastal engineering 2000; 4v.; proceedings.

Conference on Coastal Engineering (27th: 2000: Sydney, Australia). Ed. by Billy L. Edge.

Am. Soc. Civil Engineers, 2001 3953 p. \$389.00 (pa)

This four-volume set contains the proceedings of the July 2000 conference on coastal engineering. Approximately 300 papers are divided into five parts on: characteristics of coastal waves and currents; long period waves, storm surges and wave groups; coastal structures; coastal processes and sediment transport; and coastal, estuarine, and environmental problems. The individual papers cover such topics as the effects of wind, waves storms, and currents as well as the study of sedimentation, erosion, and beach nourishment. Special emphasis is given to case studies of completed engineering projects. With the inclusion of both practical and theoretical information, they provide the civil engineer and professionals in related fields with a broad range of information on coastal engineering and processes affecting design and operations in the coastal zone.

TC330 00-51834 0-415-19844-5

Coastal defences; processes, problems and solutions.

French, Peter W.

Routledge, 2001 366 p. \$150.00

French (physical geography, U. of London) examines the range of methods used by engineers to protect coastlines around the world, and discusses the problems and issues generated by coastal defense strategies. Introductory chapters provide background information on coastal defense and the role of coastal processes in coastal defense management. Several chapters focus on traditional, hard approaches to coastal defense: sea walls and revetments, groynes and jetties, cliff stabilization, and offshore structures such as breakwaters and sills. Soft approaches are also examined, including sedimentation in mudflat environments, and managed realignment. The text concludes with a discussion of future coastal defense management and policies.

TC1665 00-54309 0-7844-0545-X

Underwater investigations standard practice manual.

Title main entry. Ed. by Kenneth M. Childs, Jr. (ASCE manuals and reports on engineering practice; no.101)

Am. Soc. Civil Engineers, 2001 140 p. \$39.00 (pa)

This manual provides methods for conducting underwater engineering assessment of underwater components of existing waterfront facilities. It presents guidelines representing standards of practice, documentation and reporting, and administrative considerations for each inspection type, including new construction, baseline,

routine, repair design, and post-event inspections. Appendices describe approaches to specific types of structures and deterioration.

ENVIRONMENTAL TECHNOLOGY

TD193 00-36803 0-471-35398-1

Practical environmental forensics; process and case histories.

Sullivan, Patrick J. et al.

John Wiley & Sons, 2001 588 p. \$99.00

Deals with environmental forensics as the study, analysis, and evaluation of environmental issues in a legal dispute. The authors first introduce the process of environmental forensics, the historical basis of chemical handling and waste management, related laws, and insurance issues. The more technical chapters discuss the forensic application of contaminant transport models, chemical fingerprinting, and risk assessment. Case management, mediation methods for settling cases, and admissibility of evidence are then reviewed. Finally, case studies illustrate how to mitigate damages to clients, allocate damages among responsible parties, and resolve insurance-related issues.

TD194 00-58919 963-9116-92-0

Environmental assessment in countries in transition.

Title main entry. Ed. by Ed Bellinger et al.

Central European U. Press, 2000 208 p. \$32.00 (pa)

A report on environmental assessment (EA) regulation and practice in countries in transition. Part I examines the nature and scope of EA and the characteristics of countries in transition relevant to EA development and implementation. Part II presents country studies of the EA situation in countries in transition, and Part III discusses findings on carrying out environmental impact assessments (EIAs), enforcement of EIA legislation and regulations, effectiveness of EIA as a tool of environmental planning and management, and integrating EIA in planning and decision making. Lacks a subject index. Material originated at a July 1996 workshop held at the Central European University, Budapest. Distributed by Books International.

TD195 90-5809-233-X

Mine environment and ventilation; proceedings.

Mine Environment and Ventilation Symposium (2000: Dhanbad, India). Ed. by D.C. Panigrahi.

A.A. Balkema, 2001 546 p. \$95.00

Academics, scientists and technologists from the mining industry, and statutory authorities and other government officials sat down together to debate various issues relating to the workplace environment in both opencast and underground mines. The proceedings collect 67 of the 113 papers received. They cover analyzing and

designing ventilation systems; coal bed methane and gas emission modeling; dust generation and control; heat flow, fans, and face ventilation; monitoring and controlling mine environments; mine explosions, inundations, and other emergencies; spontaneous heating and mine fires; preventing and controlling mine fires; models and case studies of mine fires; and emerging environmental issues. They are not indexed.

TD370 00-49951 0-8213-4863-9

Water quality modeling; a guide to effective practice.

Palmer, Mervin D.

The World Bank, 2001 157 p. \$45.00 (pa)

Drawing upon examples from recent World Bank water resources and wastewater management projects, this guide reviews current approaches to water quality prediction modeling. The text aims to introduce modeling to those involved in sustainable water resource programs, especially in developing countries. Following a general overview, the volume is organized into sections on water quality parameters, commonly used models, and case studies. The text does not address groundwater or air quality models. The volume is not indexed.

TD404 00-54310 0-7844-0548-4

Standard guidelines for artificial recharge of ground water.

Title main entry. Ed. by Environmental and Water Resources Institute, American Society of Civil Engineers. (EWRI/ASCE 34-01)

Am. Soc. Civil Engineers, 2001 106 p. \$65.00 (pa)

These standard guidelines describe the steps necessary to plan, design, construct, maintain, operate, and close a project for artificial recharge of ground water. They also describe the economic, environmental, and legal considerations, including water rights, laws, and regulations, as well as field investigation and testing procedures that may apply to all the preceding steps. These guidelines cover situations that may occur in many different types of projects and can be applied to basic or small projects by selecting the portions that are appropriate to the job at hand.

TD427 00-9621 0-309-06948-3

Clean coastal waters; understanding and reducing the effects of nutrient pollution.

Title main entry. National Research Council.

National Academy Press, 2000 405 p. \$54.95

This report explains the technical aspects of nutrient over-enrichment and proposes both immediate local action by coastal managers and a longer-term national strategy incorporating policy design, classification of affected sites, law and regulation, coordination, and communication. Highlighting the Gulf of Mexico's "dead zone" and other cases, it explains how human activity has

fundamentally changed nutrient availability, how nutrients work in the environment, why nitrogen is important, how enrichment turns into over-enrichment, and why some environments are especially susceptible. It also addresses economic and ecological impacts, abatement strategies, and policy options.

TD427 2001-22041 1-58321-101-2

Rapid PCR-based monitoring of infectious enteroviruses in drinking water.

Title main entry. Ed. by Kelly A. Reynolds et al.

Am. Water Works Assn., 2001 64 p. \$195.00 (pa)
 This volume presents the results of a study which used a combination integrated cell culture/PCR (ICC/PCR) technique for detecting human enteric viruses in raw and finished drinking water. The technique allows for definitive detection of infectious enteroviruses in days compared to weeks with cell culture alone. In addition, ICC/PCR eliminates the traditional flaw of PCR analysis alone, which cannot distinguish between infectious virus versus noninfectious virus. The text describes the materials and methods used, reports the results in testing for poliovirus and Hepatitis A, and discusses recommendations for water utilities. The volume is not indexed.

TD427 00-67626 1-58321-092-X

Removal of emerging waterborne pathogens.

Title main entry. Ed. by Gregory W. Harrington et al.

Am. Water Works Assn., 2001 188 p. \$195.00 (pa)
 This report supplies the results of bench-scale and pilot-scale experiments measuring the removal of numerous emerging pathogens by solid-liquid separation technologies. The pathogens under consideration were *Encephalitozoon intestinalis*, *Escherichia coli* 0157:H7, *Aeromonas hydrophila*, Norwalk virus (calicivirus genotype 1), and adenovirus (serotype 40). Several reference pathogens were also evaluated, including *Cryptosporidium parvum*, poliovirus (vaccine strain), and bacteriophage MS2. Recommendations for water utilities, and for future research, are also included.

TD665 90-5809-225-9

A guide for the design and management of combined sewerage networks; state of the art.

Valiron, Francois and Michel Affholder.

A.A. Balkema, 2001 332 p. \$75.00
 The report of a study commissioned by the Water Bureau of the Seine River, Normandy in response to increasing complexity in sewerage systems that combine waste and storm water, and new regulations at the French and European levels. It deals with the structures that during the rainy season discharge into a combined network water that cannot be carried farther downstream without causing flooding, focusing on storm weirs, in which the wastes are discharged into the natural environment. Guide de conception et de gestion Des Réseaux d'assainissement unitaires état de l'art was published by

Technique and Documentation, Paris, in 1996.

TD745 2001-22039 1-57278-166-1

Wastewater treatment in dry climates (desert or desert with some rain).

Hammer, Mark J.

Water Environment Federation, 2001 175 p. \$80.00

Describes the most appropriate unit processes for wastewater treatment in a dry climate. Hammer (civil engineering, University of Nebraska, retired) presents the fundamental design considerations of wastewater characteristics, wastewater flows, treatment and solids processing, and effluent quality for disposal or reuse. The effects of dry climate on wastewater processes are considered. Subsequent chapters detail processes for preliminary treatment, sedimentation, biological treatment, chlorination and disinfection, and water reuse. End of chapter problems allow use as a textbook.

TD10602001-025010 0-8493-9586-0

Hazardous and radioactive waste treatment technologies handbook.

Title main entry. Ed. by Chang Ho Oh. (The mechanical engineering handbook series)

CRC Pr., 2001 920 p. \$139.95

Covers the technologies, characteristics, and regulation of both hazardous chemical wastes and radioactive wastes, focusing on waste-related thermal and non-thermal technologies, separation techniques, and stabilization technologies. Early chapters survey laws and regulations applicable to mixed waste, and discuss methods for waste characterization. Specific technologies, such as thermal and nonthermal treatment, are overviewed from an engineering perspective. Later chapters examine system considerations, decontamination, system integration and deployment, and planned life-cycle costs. Useful for chemical, environmental, civil, and mechanical engineers, government officials, and graduate students. The editor is a consulting engineer and project manager at the Idaho National Engineering and Environmental Laboratory.

TD106000-58800 1-880611-33-3

Natural remediation of environmental contaminants; its role in ecological risk assessment and risk management.

Title main entry. Ed. by Michael Swindoll et al. (SETAC general publication series)

SETAC, 2000 455 p. \$98.00 (pa)

Natural remediation (NR) is defined here as the sum of the nonanthropogenic chemical, physical, and biological processes that reduce potential risks to ecological receptors by altering the concentration and toxicity of chemical contaminants. Early chapters of this book overview NR and describe NR processes and their assessment, ecological responses to contamination, modeling of NR, and the potential role of NR in risk

assessment and management. Later chapters address the NR of some chemicals of environmental interest, and discuss NR in a variety of ecosystems, presenting case histories of contaminated sites where NR played a role in risk management decisions. A final chapter addresses NR in the context of risk management and identifies technical challenges and research needs. Swindoll is an environmental scientist working in the private sector.

TF145 1-86058-350-4

Railway infrastructure; proceedings.

Railtex International Railway Engineering Conference (2000: Birmingham, UK). (IMechE conference transactions)

Professional Engineering Pub., 2001 255 p.
\$188.00

Papers from a November 2000 conference describe the latest research and results in railway infrastructure improvement. Papers are organized in sections on integrated transport and capacity, infrastructure renewal and development, track monitoring and maintenance, passengers in the station, and environment and legislation. Specific topics examined include increasing capacity in London Underground's Central Line, characteristics of rail vehicles and systems for airport access, computer simulation in capacity planning, line speed improvement studies, and modeling for the validation of systems engineering requirements. Other topics are building the Channel Tunnel rail link, development of a new Japanese track inspection car, and low-cost thermal sensing. This volume is not indexed. It is distributed in the US by ASME.

BUILDING CONSTRUCTION

TH145 00-43581 0-471-35640-9

Construction; principles, materials, and methods,
7th ed.

Simmons, H. Leslie.

John Wiley & Sons, 2001 1186 p. \$90.00

New edition of a reference that provides in-depth coverage of virtually all accepted principles, materials, methods, codes, and standards used in the design and construction of residential, commercial, and institutional buildings. It covers the key practical issues involved in most construction, from site preparation to concrete finishing, masonry design to plastic fabrications, waterproofing to sprinkler systems, air conditioning to heat conveyance, and more. It also provides descriptive information on design basics, detail components, material and product specification, construction documentation, helpful pointers on how to avoid pitfalls commonly encountered in building design and construction, and guidelines for architects on how to handle the bidding and negotiation phases of a building construction project. Contains many b&w photographs and charts. Simmons is

a construction consultant and specifications writer.

TH106500-047752 0-471-88993-8

Structural design for fire safety.

Buchanan, Andrew H.

John Wiley & Sons, 2001 421 p. \$150.00

An introduction to the structural design of buildings and building elements exposed to fire. Structural fire resistance is discussed in relation to overall concepts of building fire safety. Buchanan (University of Canterbury) starts with the fundamentals of fires and fire safety, outlining the contribution of structural fire resistance to overall fire safety. Methods of calculating fire severity and achieving fire resistance are described, including fire performance of the main structural materials. Individual chapters address the design of steel, concrete, and timber structures, providing fire-resistance ratings, thermal properties, and mechanical properties at elevated temperatures.

TH451199-58319 0-419-23630-9

Industrial buildings; conservation and regeneration.

Title main entry. Ed. by Michael Stratton.

E&FN Spon, 2000 232 p. \$75.00

Industrial archaeologists, architects, and experts in community planning examine the research and work of Regeneration Through Heritage. Chapters present an overview of British policies and industrial conservation efforts. They then describe the nature and potential of multi-storey buildings, specialist works like potteries, and steelworks. The successes and lessons of regeneration efforts are presented. The text is illustrated with numerous b&w and color photographs. Distributed in the US by Routledge.

TH722200-33008 0-471-24143-1

Heating, cooling, lighting; design methods for architects, 2d ed.

Lechner, Norbert.

John Wiley & Sons, 2001 620 p. \$85.00

Providing a qualitative, visual approach to heating, cooling, and lighting techniques, this book reflects and supports the decision-making process of architects involved in developing schematic designs. Based on a three-tier approach load avoidance, optimum use of natural energies, and the selection of appropriate mechanical equipment the book seeks to aid designers in providing all of a building's thermal and lighting needs while minimizing energy consumption and maximizing sustainability. It provides information on thermal comfort, mechanical heating and cooling systems, climate, passive heating and cooling, shading, site planning, daylight and artificial lighting, and conservation. Sun path diagrams, sizing tables, case studies, and approximately 1,000 photographs are included. Lechner

teaches architecture at Auburn University.

MECHANICAL ENGINEERING & MACHINERY

TJ163 00-51865 0-88173-337-7

Energy management handbook, 4th ed.

Turner, Wayne C.

Fairmont Pr., 2001 758 p. \$150.00

Revised edition of a reference for those responsible for managing energy costs. Turner (industrial engineering and management, Oklahoma State U.) discusses topics including boilers, steam, and condensate systems; cogeneration; waste heat recovery; building envelope; lighting; energy systems maintenance; industrial insulation; alternative energy; utility rates; thermal energy storage; codes, standards and legislation; control systems; energy security; and economic analysis. New chapters cover all aspects of utility deregulation and financing energy projects.

TJ163 00-50399 0-88173-347-4

Handbook of energy engineering, 5th ed.

Thumann, Albert and D. Paul Mehta.

Fairmont Pr., 2001 479 p. \$92.00

Applies the principles of energy engineering and management to the design of electrical, HVAC, utility, process and building systems for both new design and retrofit projects. Waste heat recovery, control systems, computer applications, thermal storage, and passive solar energy systems are covered. The fifth edition adds chapters on compressed air system optimization, and on codes, standards and legislation.

TJ163 00-69453 0-7918-0158-6

Practical guide to energy management for facilities engineers and plant managers.

Mull, Thomas E.

ASME, 2001 622 p. \$90.00

This guide examines practical applications and presents examples for conserving energy and reducing energy costs in commercial, institutional, and industrial plants and facilities. Registered Mechanical Engineer Mull provides an introduction to the basic scientific principles and economics of energy management. Then commonly-used energy-consuming equipment and systems are profiled. Some of the topics covered include steam and hydronic boilers, and pumping, chilled water, air distribution, HVAC, electrical, lighting, compressed air, refrigeration, heat recovery, cogeneration, energy management, and thermal storage systems.

TJ260 00-42287 0-471-39550-1

Extended surface heat transfer.

Kraus, Allan D. et al.

John Wiley & Sons, 2001 1105 p. \$175.00

Extended surfaces longitudinal or radial fins or spines

enhance heat transfer between a surface and an adjacent fluid in applications as large as tubes in heat exchangers and as small as the temperature control of electronic components. Kraus (U. of Akron) and Donald Q. Kern published an extensive treatise on extended surface heat transfer in 1972, but now finds the field changed enough to need an update. So he teams up with Abdul Aziz (Ganzaga U.) and James Welty (Oregon State U.) to set out the current thinking on such matters as convection with simplified and real constraints, longitudinal fin double-pipe exchangers, and boiling from finned surfaces.

TJ263 00-102855 0-8247-0532-7

Practical guide to industrial boiler systems.

Vandagriff, Ralph L. (Mechanical engineering; 136)

Marcel Dekker, 2001 362 p. \$135.00

Vandagriff (steam and power consultant in Arkansas) compiled this guide to serve as a comprehensive reference for the power engineer, operators, and maintenance crew who work with boilers; it will be useful as well to management, safety, and supervisory personnel; and power engineering students. The volume contains numerous spreadsheets, tables, and figures to supplement the detailed text which covers the formulas for steam, the combustion of biomass fuels, boiler house energy loss and recovery methods, compressed air system problems and solutions, causes of boiler smoke and steam drum water shrink and swell, deaerator types and specifications, minimum auto ignition temperatures, and design notes from boiler jobs.

TJ843 00-102219 0-8031-2883-5

Hydraulic failure analysis; fluids, components, and system effects.

Title main entry. Ed. by George E. Totten et al. (STP; 1339)

A.S.T.M., 2001 601 p. \$95.00

Based on a December 1999 symposium held in Reno, this collection of 41 papers reviews new technologies being developed to address hydraulic wear and failure problems. The main subjects are tribological design, failure analysis, improved materials, seals, and the effects of fluids on hydraulic pump wear. Within failure analysis, the contributors discuss methods for root cause analysis to identify hydraulic wear, different applications of wear particle analysis to identify the sources of hydraulic component failure, and examples of hydraulic pump and rolling element bearing wear. Other topics include mechanisms of abrasive wear in lubricated contacts, laser surface texturing of mechanical components, and hydraulic valve problems caused by oil oxidation products.

TJ1077 2001-22358 0-8031-2867-3

Bench testing of industrial fluid lubrication and wear properties used in machinery applications.

Title main entry. Ed. by George E. Totten et al. (STP; 1404)

A.S.T.M., 2001 337 p. \$90.00

Discusses the selection of bench tests and testing conditions to model the lubrication and wear properties of fluids used in industrial machines and components, such as compressors, pumps, chain drives, transmissions, and bearings. Based on a June 2000 symposium held in Seattle, the 23 papers are divided into sections on equipment lubrication correlation problems, test development, evaluation of bench test results, and simulation of tribological performance. Topics include the use of bench test to evaluate water-glycol hydraulic fluid lubrication, a spiral orbit rolling contact tribometer, a new device for traction measurement on ice, and corrosive wear testing of metals in seawater.

ELECTRICAL ENGINEERING, ELECTRONICS, NUCLEAR ENGINEERING

TK510300-101881 1-58053-299-3

Digital techniques for wideband receivers, 2d ed.

Tsui, James. (Artech House radar library)

Artech House, 2001 588 p. \$129.00

Introduces digital signal processing approaches that are potentially applicable to wideband receiver designs. Emphasis is on techniques rather than theoretical discussions. Fourier transforms, discrete Fourier transforms, and subjects related to wide bandwidth receiver designs are treated in early chapters. Other chapters concern receiver hardware, analog-to-digital converters and their impact on receiver performance, converter designs, probability of false alarm, and phase measurement. Later chapters discuss methods related to receiver designs, such as frequency channelization. There are two chapters devoted to electronic warfare receivers. For senior undergraduates and graduate students in engineering.

TK510300-102220 1-58053-248-9

The future of wireless communications.

Webb, William. (Artech House mobile communications series)

Artech House, 2001 434 p. \$69.00

Forecasts changes in mobile communications over the next 20 years and provides organizations with specific recommendations on the direction of technological development. Overviews emerging wireless technologies and systems in plain language, then examines critical constraints and drivers such as the limits of efficiency, standardization, radio spectrum, industry structures, and user requirements. Coverage encompasses cellular and fixed wireless systems, and wireless local area and personal area networks. Webb is director of strategy at Motorola. He has written other books on wireless communications.

TK510399-65927 0-7897-2247-X

Practical network cabling.

Derfler, Frank J. Jr. and Les Freed.

Que Corp., 2000258 p. \$29.99 (pa)

This guide to network cabling offers technical know-how to make the right cabling choices. It overviews economic and technical forces that shape cabling options, describes and categorizes different types of cabling, and links cabling to the specifications of real networking systems. Emphasis is on practical tips and objective product information, along with how-to descriptions of bringing wire into a central facility and applying connectors. Wiring for the home and small office is also discussed. The authors have written other books on networks and network cabling, and they write for PC Magazine.

TK51052001-17642 0-471-33036-1

High-speed networking; a systematic approach to high-bandwidth low-latency communication.

Sterbenz, James P.G. and Joseph D. Touch. (Wiley Networking Council series)

John Wiley & Sons, 2001 597 p. \$49.99

Having decided that high-speed networking is mature enough to consider the complete range of issues needed to deliver high performance to distributed communicating applications, network specialists Sterbenz and Touch offer a systemic and systematic description of the principles of high-performance network architecture and design systemic because they are concerned with the performance of the entire networked system or systems, and systematic because they consider in turn all the factors that are required.

TK510500-101764 0-471-39823-3

HTTP essentials; protocols for secure, scaleable Web sites (CD-ROM included)

Thomas, Stephen A.

John Wiley & Sons, 2001 321 p. \$34.99 (pa)

This guide explains the protocol that defines how Web browsers communicate with Web servers, the mechanisms that keep that communication secure, and techniques for accelerating HTTP. Topics include the structure and format of HTTP messages; security technologies such as SSL, TLS, and SHTTP; and how to handle compatibility between HTTP versions. Coverage extends to related technologies such as Proxy Auto Configuration (PAC), Web Proxy Auto Discovery (WPAD), Web Cache Coordination Protocol (WCCP), Internet Cache Protocol (ICP) and Hypertext Caching Protocol (HTCP). The CD-ROM contains the entire text in a searchable Adobe Acrobat file.

TK510500-66541 0-13-091170-4

IP solutions for Windows 2000.

Ammann, Paul T. (Prentice Hall Microsoft technologies series)

Prentice Hall, 2001 660 p. \$49.99 (pa)
 Written for IT professionals, this reference provides guidance on Windows 2000 TCP/IP, DHCP, WINS, and DNS. It covers planning, management, and troubleshooting. Ammann (a network engineer) offers solutions for some of the most common Windows 2000 networking challenges and applications. These include architecture, installation, configuration, routing, WINS/DNS name resolution, and dynamic DNS. He describes techniques for implementing remote management, dynamic set-up, roaming users, Web browsing, software distribution, printing, and PPP dial-up.

TK510500-43692 0-471-39302-9
Practical data communications, 2d ed.
 Freeman, Roger L. (Wiley series in telecommunications and signal processing)
 John Wiley & Sons, 2001 825 p. \$150.00
 A 45-year veteran of telecommunication system design and operation and a prolific writer of technical books about them, Freeman shifts away from the focus of the 1995 first edition to write primarily for information technologists rather than electrical engineers, and emphasizes the software that makes a data circuit work rather than the electrical data signal itself. He discusses generalized data networks and their protocols rather than proprietary systems, and describes the underlying digital network in order to allow readers to take better advantage of services available from the public network. His work provides a tutorial for students or professionals with only a basic understanding of the field.

TK5105 0-201-39860-5
User-centered web design.
 Cato, John.
 Addison-Wesley, 2001 320 p. \$39.99 (pa)
 Rather than focusing on technological innovations, specific software packages, or graphic content, this guide to Web design urges designers to approach their work from the perspective of the user, thus encouraging designs that are engaging and easy to use. The book offers an overview of user-centered project management, describes the techniques involved, and offers advice on meeting the needs of both the client and the end-user. A chronological format depicts every step of a project. Cato is a designer, trainer, and consultant.

TK510500-101884 0-201-70209-6
Virtual private networks; technologies and solutions.
 Yuan, Ruixi and W. Timothy Strayer. (Addison-Wesley professional computing series)
 Addison-Wesley Longman, 2001 317 p. \$44.95
 This guide presents the various technology components, concrete solutions, and best practices you need to deploy and manage a highly successful virtual private network

(VPN). Yuan (researcher focusing on high-speed networking and security) and Strayer (scientist and VPN researcher) present 12 chapters that overview fundamental VPN concepts and architectures and examine advanced features and functions such as tunneling, authentication, access control, and VPN gateways, clients, and network and service management. They conclude with a look at the future of VPNs that examines such issues as security and quality of service. VPN scenarios demonstrate how to put the described techniques and technologies to work in a real-world situation.

TK6570
Software radio architecture, object-oriented approaches to wireless systems engineering.
 Mitola, Joseph III.
 John Wiley & Sons, 2000 543 p. \$89.95
 Having introduced the radio software architecture in 1992, Mitola shows how to integrate the analogue radio-frequency and digital aspect of radio with the emerging large-scale, object-oriented software technology needed for open-architecture software-defined radio. The radio-oriented chapters assume a solid background in software but little or none in radio engineering; the software-oriented chapter assume the reverse. For US engineers, who have not yet caught up with their European colleagues in using formal methods, he includes a tutorial on the International Telecommunications Union standard Specification and Description Language.

TK787000-54186 0-7803-6025-7
Accelerated stress testing handbook; guide for achieving quality products.
 Title main entry. Ed. by H. Anthony Chan and Paul J. Englert.
 IEEE Press, 2001 372 p. \$109.95
 This guide to accelerated stress testing (AST) delineates a core set of practices as part of an overall methodology for enhancing hardware product reliability. The techniques presented help identify design deficiencies and problems with component quality of manufacturing processes early in a product's life. Case studies supplement the theory and illustrate basic principles. Thermal, vibration, electrical, and liquid stress applications of AST are described. Chan and Englert work in product design for private companies.

TK787200-68603 0-471-41116-7
Engineering superconductivity.
 Title main entry. Ed. by Peter J. Lee, editor.
 John Wiley & Sons, 2001 661 p. \$120.00
 A collection of 50 articles on the applications of superconductors from an engineering perspective, derived from the 24-volume Wiley Encyclopedia of Electrical and Electronics Engineering and organized in sections on superconductivity and magnetism, supercon-

ductors, and applications and related technology. Articles look at the application of superconductors from an engineer's practical perspective rather than a theoretical approach, explaining the properties and fabrication methods of commercially produced superconductors. Material on competing technologies is also included. All articles were written by acknowledged experts in their fields and have been updated where necessary by the authors for developments since 1999. Lee is a scientist at the University of Wisconsin-Madison's Applied Superconductivity Center.

TK787400-041684 0-13-089896-1

Digital design; principles and practices, 3d ed. (CD-ROM included)

Wakerly, John F. (Prentice Hall Xilinx design series)

Prentice Hall, 2001 946 p. \$102.00

New edition of a reference that blends academic precision and practical experience in an introduction to basic principles of digital design and practical requirements in both board-level and VLSI systems. Wakerly (Cisco Systems, Inc. and Stanford U.) covers the fundamental building blocks across several levels of abstraction, from CMOS gates to hardware design languages, as well as important functions such as gates, decoders, multiplexers, flip-flops, registers, and counters. HDL coverage now includes VHDL and ABEL. The included CD-ROM contains XILINX Foundation Series software, Version 2.1i.

TK7876 0-85296-794-2

Ridge waveguides and passive microwave components.

Helszajn, J. (IEE electromagnetic waves series; 49)

INSPEC/IEE, 2000 327 p. \$98.00

This book collects much of Helszajn's work (formerly, Heriot-Watt University) and includes closed-form and finite element calculations of the propagation constant, attenuation and mode spectrum for the ridge waveguide, and power-current and power-voltage definitions of impedance. Circular polarization is also treated. Propagation properties where the waveguide has a dielectric filler are calculated. The treatment is then extended to more complex designs, including quadruple ridge waveguides with and without a gyromagnetic filler. The text includes descriptions of many of the passive devices which can be realized using these waveguides, including isolators, phase shifters, and circulators.

TK789500-103142 0-12-265320-3

Handbook of thin film devices; 5v.

Title main entry. Ed. by Maurice H. Francombe.

Academic Press, 2000 1,412 p. \$1,800.00

The area is hot, of course, because of requirements in the commercial, military, and space development arenas. These endeavors demand a new focus on micro-volume

device and circuit architectures in high-density, integrated solid-state subsystems. Such subsystems embody, in addition to electron devices, newly developed magnetic, superconducting, dielectric, acoustic, and optical thin film components. This five-volume reference reviews the present status of thin-film device research, technology, and applications in connection with these applications. The five volumes cover, respectively, heterostructures for high performance devices, ferroelectric film devices, magnetic thin film devices, semiconductor optical and electro-optical devices, and superconducting film devices. Treatment ranges from basic device physics and design through growth and device fabrication, performance characteristics, applications, and integration into subsystems. Each separately indexed volume contains between five and 12 chapters written by specialized experts affiliated with government, industry, and university laboratories.

MOTOR VEHICLES, AERONAUTICS, ASTRONAUTICS

TL250 00-69822 0-7680-0687-2

Digital human modeling for vehicle and workplace design.

Chaffin, Don B. et al.

Soc./Automotive Engin'rs, 2001 184 p. \$59.00

Presents seven case studies in which digital human models were used to solve different types of physical problems associated with proposed human-machine interaction tasks. Contributions from researchers at Ford, Boeing, the US Air Force, and others show how digital human modeling (DHM) was used to improve the human-hardware interfaces required in applications such as international space station design, aircraft munitions handling, small car pedal location, and sheet metal parts handling.

MINING ENGINEERING

TN10 0-87339-499-2

Flash smelting; analysis, control and optimization, 2d ed.

Davenport, W.G. et al.

TMS (Minerals, Metals...Soc.), 2001 323 p.

\$48.00 (pa)

This new edition chronicles developments in the industry since the first edition of the book, and incorporates the authors' greater understanding of the process. The two main parts a descriptive section and a mathematical section have been revised to show industry practices as of 2000. Additionally, the mathematical section now uses Microsoft Excel for all the calculations. Twenty-three chapters cover a range of topics including Outokumpu flash smelting; Inco flash smelting; autothermal smelting; direct-to-copper flash smelting; combustion of hydrocar-

bon fuel in the flash furnace; the effect of matte grade on flash smelting; the effect of concentrate composition on 65% Cu matte smelting; production and recycle of dust; and minor feed materials and model smelting.

TN145 2001-27301 0-87335-193-2

Underground mining methods; engineering fundamentals and international case studies.

Title main entry. Ed. by William A. Hustrulid and Richard L. Bullock.

Soc./Mining, Metallurgy & Explor., 2001 718 p. \$119.00

The successor to the Society's 1982 Underground Mining Methods Handbook affectionately known as the Blue Book, includes revised section of general mine design, mining methods, and foundations for design and a new section on the future of the field. Other sections cover the room-and-pillar mining of hard and soft rock, the longwall mining of hard rock, shrinkage stoping, sublevel stoping, cut-and-fill mining, sublevel caving, and panel caving. Among specific topics are cost estimating, modifications of the room-and-pillar mining method for Polish copper ore deposits, rock support in cut-and-fill mining at the Krisineberg Mine, and simulating underground mining operations.

TN269 00-59527 0-415-24407-2

High resolution site surveys.

Parkinson, Roger.

E&FN Spon, 2001 230 p. \$125.00

When from time to time oil companies want to or have to conduct a high resolution and engineering site survey before underwater drilling, they usually hire an outside consultant for the job. That is what Parkinson has done for the past two decades. Here he draws on old survey reports, contractors' data sheets, published and unpublished academic papers, old conference reports, and other material to describe the process of making such a survey. He combines seismic and hydrographic site survey techniques to present a unified approach to marine surveying with an emphasis on bright spot analysis and detecting shallow drilling hazards.

CHEMICAL TECHNOLOGY

TP156 00-136233 0-19-850201-X

Asymmetric oxidation reactions.

Title main entry. Ed. by Tsutomu Katsuki. (The practical approach in chemistry series)

Oxford U. Pr., 2001 244 p. \$125.00

Provides details of general procedures for asymmetric oxidation reactions as tools for enantiopure synthesis of complex molecules. The volume begins with a brief review of the development of stereo- control in oxidation reactions, and the following chapters are devoted to the practical approaches. The 16 contributions describe C-H oxidation, epoxidation of olefins, epoxidation using

peroxides, dihydroxylation, aminohydroxylation, aziridination, hydroxylation of enolates and enols, Baeyer-Villager oxidations, oxidation of heteroatoms, and oxidation using a biocatalyst. In addition to the protocols, the authors furnish features of the individual reactions, optimal reaction conditions, experimental precautions, and sample results.

TP156 00-102855 0-8247-0528-9

Crystallization technology handbook, 2d ed.

Title main entry. Ed. by A. Mersmann.

Marcel Dekker, 2001 832 p. \$225.00

In a unified multi-author handbook rather than a collection of articles, contributors from industry and academia in Europe, Israel, the US, and Japan provide information not only on the science of crystallization from solution and from melt, but also on the basic design methods for laboratories and especially industrial crystallizers. They take into account relevant crystallization phenomena and such chemical engineering processes as fluid dynamics, multiphase flow, and heat and mass transfer. A main concern is scaling up laboratory experiments for obtaining kinetic data into industrial production facilities.

TP248 99-50917 0-309-05392-7

Biobased industrial products; priorities for research and commercialization.

Title main entry. National Research Council.

National Academy Press, 2000 145 p. \$35.00 (pa)

After reviewing the potential benefits of the use of biobased industrial products over more commonly used petroleum benefits, this report examines the raw material resource base for products and explains the range of products and processing technologies available. Recommendations are provided as to how to effectively make the transition to biobased products, with discussions of providing sufficient investment and supportive infrastructure. Also included is a case study of lignocellulose-ethanol processing.

TP248 00-021383 0-471-17612-5

Encyclopedia of ethical, legal, and policy issues in biotechnology; 2v.

Murray, Thomas H. and Maxwell J. Mehlman. (Wiley biotechnology encyclopedias)

John Wiley & Sons, 2000 1132 p. \$695.00

Murray (The Hastings Center) and Mehlman (Case Western Reserve U.) solicited and assembled 112 entries from experts affiliated with institutions all over the US. The entries are in-depth, peer-reviewed articles, arranged alphabetically in two volumes, each with cross-references and sources. They range in their technical demands. Some are accessible to a general audience, but all are intended to be useful to sophisticated readers. Coverage encompasses a wide range of very hot topics, among them: cloning, federal policies, gene therapy,

human enhancement, human subjects, international aspects (national profiles for half a dozen countries), patents and licensing, and research on animals. Although comprehensiveness was the goal, Murray and Mehlman point out some significant gaps (which, of course, can be filled in later editions or supplements): not all of the experts contacted for articles came through, so some topics are not treated, and others are treated from only one or two of the three perspectives ethical, legal, and public policy that are the focus of the reference. This set is one of four sets of Wiley biotechnology encyclopedias.

TP1087 00-68904 0-7506-7210-2

Condensed encyclopedia of polymer engineering terms.

Cheremisinoff, Nicholas P.

Butterworth-Heinemann, 2001 362 p. \$95.00

A consulting engineer who runs training and education programs in eastern Europe, the US, and elsewhere, Cheremisinoff offers a reference on the nature, manufacture, structure, properties, processing, and applications of commercially available polymers. He describes the physical properties and applications of the materials in terms of the theory, chemistry, and manufacturing constraints that apply to them, thereby allowing scientists to understand the commercial implications of their work, and providing a theoretical background to polymer technologists, engineers, and designers.

MANUFACTURES

TS155 00-037320 0-13-027147-0

Principles of operations management, 4th ed. (CD-ROM included)

Heizer, Jay and Barry Render.

Prentice Hall, 2001 716+ p. \$89.33 (pa)

In this textbook, Heizer (business administration, Texas Lutheran U.) and Render (operations management, Rollins College) provide a broad introduction to the field of operations management. A sampling of topics includes operations strategy for competitive advantage, forecasting, design of goods and services, human resources, e-commerce, project management, inventory management, and maintenance. The CD-ROM contains video case studies, lecture notes, Excel OM and Extend software, and additional practice problems.

TS156 00-102855 0-8247-0527-0

Reliability improvement with design of experiments, 2d ed., rev.

Condra, Lloyd W. (Quality and reliability; 59)

Marcel Dekker, 2001 398 p. \$135.00

The intended audience to this basic introduction to DoE, reliability, and accelerated testing for practical use will be engineers and managers. Condra (an associate technical

fellow with Boeing) traces the transition from reliability assurance by compliance with standards to good design and manufacturing practices, with discussion of concurrent product design, process development, deterministic methods, reliability databases, constant and variable failure rates, Taguchi methods, and common acceleration models. The appendices provide Taguchi orthogonal arrays and linear graphs; values of the F- distribution; median, 5%, and 95% rank tables; and critical values of the chi-squared distribution.

TS171 0-7506-5076-1

Designing capable and reliable products.

Booker, J.D. et al.

Butterworth-Heinemann, 2001 400 p. \$75.00

Introduces the concept of capable design, focusing on producing designs that meet quality standards, and also looks at linking component manufacture and its process capability with failure rates. Reviews costs of quality in manufacturing companies, and presents a knowledge-based Design for Quality (DFQ) technique for prediction of process capability measures in component manufacture and assembly. A methodology for the allocation of capable component tolerances within assembly stack problems is given, as well as a methodology for providing reliability estimates for product designs. A final chapter discusses the role of the product development process in driving the creation of reliable products. Includes some 100 pages of reference appendices. Booker is affiliated with the University of Bristol.

TS514 00-68758 0-8194-4051-5

Optical design fundamentals for infrared systems, 2d ed.

Riedl, Max J. (Tutorial texts in optical engineering; TT 48)

SPIE, 2001 183 p. \$50.00 (pa)

Provides a basic approach to the optical design of infrared systems, for systems engineers whose expertise is outside the field of optics. Material presented can be applied directly to the initial optical system layout phase to evaluate trade-offs of various configurations. Treatment is organized to follow the flow of radiant energy from the source to the detector. This second edition reflects changes in technology and applications that have occurred in the past decade. There are new chapters on thermal effects, design examples, and diamond turning, plus expanded material on achromats, and new material on the ball lens, gradient optics, and three-mirror configurations. Also new is discussion of wave aberrations and a comparison of spherical aberrations to the Seidel coefficient.

UG485 00-102218 1-58053-052-4

Fundamentals of electronic warfare.

Vakin, Sergei, A. et al. (Artech House radar library)

Artech House, 2001 384 p. \$129.00

Presents fundamentals of electronic warfare (EW) based on systems methodology. Mathematical models of electronic systems viewed as EW targets are presented, including mathematical models of an optimum detector and radar tracker, models for optimum reception in radio communications systems and radio navigation, and models of recognition schemes. Mathematical models of automated systems for the control of anti-aircraft defense forces and weapons as EW targets are presented using the methods of the mass service theory and the theory of automated control systems. Models of jamming signals are developed using the methods of information theory and statistical radio technology. There is also information on calculation of jamming corridors, and jamming methods based on use of false targets.

VK560 00-68872 0-7506-5138-5

Electronic navigation systems, 3d ed.

Tetley, Laurie and David Calcutt.

Butterworth-Heinemann, 2001 423 p. \$85.00

Tetley (navigation and communications systems) and Calcutt (electrical and electronic engineering, both U. of Portsmouth) provide navigators a detailed manual covering the principles and applications of modern systems. The earlier editions were published as *Electronic Aids to Navigation* (1986) and *Electronic Aids to Navigation: Position Fixing* (1991). Here they include many new systems and techniques, especially computer-based ones, and drop some now obsolete systems. Among recent events they incorporate are the loss of the hyperbolic systems Decca and Omega and relegation of the remaining terrestrial network, Loran-C, to backup for the Geographical Positioning System, and allowing civilians the same accuracy of the GPS as the military.

SLA on the Web
Sci-Tech News Division Websites
(information taken from the SLA Homepage: www.sla.org)

Chemistry Division

Web Addresses: www.sla.org/division/dche/chemdiv.html
depts.washington.edu/chemlib/sanant.html
Subscription: listserv@listserv.indiana.edu
List Address: CHMINF-L@listserv@listserv.indiana.edu

Engineering Division

Web Address: www.sla.org/division/deng/engdiv.html
Subscription Address: Majordomo@iee.org.uk
List Address: SLA-ENG@iee.org.uk

**Materials Research
and Manufacturing Division**

Subscription: Lists@lists.sla.org
List Address: SLA-DMRM@lists.sla.org

Science-Technology Division

Web Address: www.sla.org/division/dst/
Subscription: majordomo@welles.library.northwestern.edu
List Address: SLA-ST@wells.library.northwestern.edu

Transportation Division

Web Address: <http://www.library.nwu.edu/transportation/slatran/>
Subscription Address: Listserv@listserv.acns.nwu.edu
List Address: TRANLIB@listserv.acns.nwu.edu

Chemistry Division Officers, 2001-2002

Division Chair

Marilynn Dunker
Proctor & Gamble
Business Information Services,
6300 Center Hill Ave.
Cincinnati, Ohio 45224
(513) 634-3548
(513) 634-3496
dunker.mj@pg.com

Secretary

Denise Callihan
PPG Industries Inc
Chem Tech Ctr Library;
440 College Park Dr.,
Monroeville PA 15146-1553
(724) 325-5221
(724) 325-5289
callihan@ppg.com

Immediate Past Chair

Dana Roth
Caltech
Millikan Library 1-32
Pasadena, CA 91125
(626) 395-6432
(626) 792-7540
dzrlib@library.caltech.edu

Division Vice-Chair/Chair-Elect

Suzanne Fedunok
New York University Libraries
Coles Science Center,
70 Washington Square,
New York, NY 10012
(212) 998-2698
(212) 995-4283
fedunoks@elmer4.bobst.nyu.edu

Treasurer

Kevin Lindstrom
University of British Columbia
Main Library
1956 Main Mall
Vancouver B.C.
Canada V6T 1Z1
(604) 822-0695
(604) 822-5366
lindstro@interchange.ubc.ca

Engineering Division Officers, 2001-2002

Division Chair

Carol Reese, Cybrarian
American Society of Civil Engineers
1801 Alexander Bell Drive
Reston, VA 20191-4400
creese@asce.org

Treasurer

Sara Davis
Jacobs Engineering Group, Inc.
Technical Information Service
4848 Loop Central Drive
Houston, TX 77081-2213
sara.davis@jacobs.com

Past Chair

Marilyn Redmond
International Sematech, Inc.
2706 Montopolis Drive
Austin, TX 78741
marilyn.redmond@sematech.org

Division Chair-Elect

Sara R. Tompson
Director of Library Services
Packer Engineering
1950 North Washington Street
Post Office Box 353
Naperville, IL 60566
srt@packereng.com

Director

Betty Lou Hicks
Hanson Engineers
Library
1525 South Sixth Street
Springfield, IL 62703
bettylou@hansonengineers.com

Aerospace Section Chair

Thomas G. De Petro
Texas A&M University Libraries
Evans Library Reference
TAMU 5000
College Station, TX 77843
tdp@tamu.edu

Secretary

Cheryl Hansen
Engineering Systems, Inc.
3851 Exchange Avenue
Aurora, IL 60504
cahansen@esi-il.com

Materials Research and Manufacturing Division Officers 2001—2002

Division Chair

Martha Walunis
Gould Electronics Inc
Tech Info Center
349298 Curtis Blvd
Eastlake, OH 44095
(440) 953-5117
(440) 953-5152
mwalunis@gouldelectronics.com

Division Chair-Elect

Ed Malloy

Secretary

Kevin Drees

Treasurer

Martha Rose M Rhine
3758 Route 148
Marion, IL 62959-9343

(618) 964-1775

mrhine@midwest.net

Past Chair

Charles Wenger
Associate Director of Public Services
Paul V. Galvin Library
Illinois Institute of Technology
35 W. 33rd Street, Chicago IL 60616
(312) 567-3374 fax (312) 567-5318
wenger@iit.edu

Science Technology Division Officers - 2001-2002

Chair

Janet A. Hughes
Pennsylvania State Univ.
408 Paterno Library
University Park, PA 16802-1811
(814) 865-3705 fax(814) 863-9684
jah@psulias.psu.edu

Secretary

Mary Frances Lembo
Pacific Northwest National Lab.
Hanford Technical Library P8-55
P.O. Box 999
Richland, WA 99352
(509) 372-7441 fax(509) 372-7431
mf.lembo@pnl.gov

Past-Chair

Marsha J. Saylor
Michelin Americas R & D Corp
P.O. Box 1987
Greenville, SC 29602-1987
(864) 422-4670
Marsha.Saylor@us.michelin.com

Chair Elect

Mitchell C. Brown
Princeton University
Fine Hall Library
Washington Road
Princeton, NJ 08544-0001
(609) 258-3150 fax (609) 243-2627
mcbrown@princeton.edu

Treasurer

Ann Koopman
Thomas Jefferson University
Scott Memorial Library
1020 Walnut Street
Philadelphia, PA 19107
(215) 503-0441 fax(215) 923-3203
Ann.Koopman@mail.tju.edu

Transportation Division Officers and Committee Chairs 2001-2002

Division Chair

Mary Ellen Tucker
University of North Carolina
Highway Safety Research Center
730 Airport Road, Campus Box 3430
Chapel Hill, NC 27599-3430
(919) 962-8701
metucker@email.unc.edu

Chair-Elect

Roberto Sarmiento
Northwestern University
Transportation Library
1935 Sheridan Road
Evanston, IL 60208
(847) 491-2913
r-sarmiento@nwu.edu

Immediate Past Chair

Laura Whyne
University of Kentucky
Kentucky Transportation Center
176 Raymond Building
Lexington, KY 40506-0281
(859) 257-4513 x234
lwhyne@engr.uky.edu

Secretary/Treasurer

Betty Lou Hicks
Hanson Engineers, Inc.
Library
1525 S. 6th Street
Springfield, IL 62703-3886
217-788-2450
bettylou@hansonengineers.com

United States Postal Service

Statement of Ownership, Management, and Circulation

1. Publication Title Sci-Tech News		2. Publication Number 0 0 3 6 . 8 0 5 9		3. Filing Date 10-22-01
4. Issue Frequency February, May, August, November		5. Number of Issues Published Annually 4		6. Annual Subscription Price Members: \$1.50; Other U.S.: \$20.00; Canadian: \$20.00; Other Foreign: \$22.50
7. Complete Mailing Address of Known Office of Publication (Not printer) (Street, city, county, state, and ZIP+4) Sci-Tech News / 10919 Wood Hollow Drive / Chardon, OH 44024-9444				Contact Person Barbara Parkinson Telephone 440-285-2327
8. Complete Mailing Address of Headquarters or General Business Office of Publisher (Not printer) Special Libraries Association / 1700 18th Street, NW / Washington, DC 20009				
9. Full Names and Complete Mailing Addresses of Publisher, Editor, and Managing Editor (Do not leave blank)				
Publisher (Name and complete mailing address) Special Libraries Association / 1700 18th Street, NW / Washington, DC 20009				
Editor (Name and complete mailing address) Bonnie Osif / Pennsylvania State University / 325 Hammond Bldg. / University Park, PA 16802				
Managing Editor (Name and complete mailing address) Barbara Parkinson / 10919 Wood Hollow Drive / Chardon, OH 44024-9440				
10. Owners (Do not leave blank. If the publication is owned by a corporation, give the name and address of the corporation immediately followed by the names and addresses of all stockholders owning or holding 1 percent or more of the total amount of stock. If not owned by a corporation, give the names and addresses of the individual owners. If owned by a partnership or other unincorporated firm, give its name and address as well as those of each individual owner. If the publication is published by a nonprofit organization, give its name and address.)				
Full Name		Complete Mailing Address		
Special Libraries Association		1700 18th Street, NW / Washington, DC 20009		
11. Known Bondholders, Mortgagees, and Other Security Holders Owning or Holding 1 Percent or More of Total Amount of Bonds, Mortgages, or Other Securities. If none, check none				
Full Name		Complete Mailing Address		
12. Tax Status (For completion by nonprofit organizations authorized to mail at nonprofit rates) (Check one) The purpose, function, and nonprofit status of this organization and the exempt status for federal income tax purposes: <input type="checkbox"/> Has Not Changed During Preceding 12 Months <input checked="" type="checkbox"/> Has Changed During Preceding 12 Months (Publisher must submit explanation of change with this statement)				

PS Form 3526, October 1999

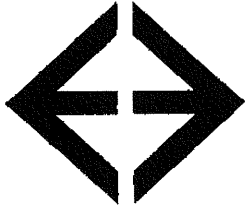
(See Instructions on Reverse)

13. Publication Title Sci-Tech News		14. Issue Date for Circulation Data Below August 2001	
15. Extent and Nature of Circulation			
a. Total Number of Copies (Net press run)		1,813	2,000
b. Paid and/or Requested Circulation			
(1) Paid/Requested Outside-County Mail Subscriptions Stated on Form 3541 (Include advertiser's proof and exchange copies)		1,659	1,857
(2) Paid In-County Subscriptions Stated on Form 3541 (Include advertiser's proof and exchange copies)		-0-	-0-
(3) Sales Through Dealers and Carriers, Street Vendors, Counter Sales, and Other Non-USPS Paid Distribution		-0-	-0-
(4) Other Classes Mailed Through the USPS		-0-	-0-
c. Total Paid and/or Requested Circulation (Sum of 15b. (1), (2), (3), and (4))		1,659	1,857
d. Free Distribution by Mail (Samples, complimentary, and other free)			
(1) Outside-County as Stated on Form 3541		-0-	-0-
(2) In-County as Stated on Form 3541		-0-	-0-
(3) Other Classes Mailed Through the USPS		50	50
e. Free Distribution Outside the Mail (Carriers or other means)		-0-	-0-
f. Total Free Distribution (Sum of 15d. and 15e.)		50	50
g. Total Distribution (Sum of 15c. and 15f.)		1,709	1,907
h. Copies not Distributed		104	93
i. Total (Sum of 15g. and h.)		1,813	2,000
j. Percent Paid and/or Requested Circulation (15c. divided by 15g. times 100)		97%	97%
16. Publication of Statement of Ownership <input checked="" type="checkbox"/> Publication required. Will be printed in the November 2001 issue of this publication. <input type="checkbox"/> Publication not required.			
17. Signature and Title of Editor, Publisher, Business Manager, or Owner <i>Barbara Parkinson</i>			Date 10-22-01
I certify that all information furnished on this form is true and complete. I understand that anyone who furnishes false or misleading information on this form or who omits material or information requested on the form may be subject to criminal sanctions (including fines and imprisonment) and/or civil sanctions (including civil penalties).			

Instructions to Publishers

- Complete and file one copy of this form with your postmaster annually on or before October 1. Keep a copy of the completed form for your records.
- In cases where the stockholder or security holder is a trustee, include in items 10 and 11 the name of the person or corporation for whom the trustee is acting. Also include the names and addresses of individuals who are stockholders who own or hold 1 percent or more of the total amount of bonds, mortgages, or other securities of the publishing corporation. In item 11, if none, check the box. Use blank sheets if more space is required.
- Be sure to furnish all circulation information called for in item 15. Free circulation must be shown in items 15d, e, and f.
- Item 15h, Copies not Distributed, must include (1) newsstand copies originally stated on Form 3541, and returned to the publisher, (2) estimated returns from news agents, and (3) copies for office use, leftovers, spoiled, and all other copies not distributed.
- If the publication had Periodicals authorization as a general or requester publication, this Statement of Ownership, Management, and Circulation must be published; it must be printed in any issue in October or, if the publication is not published during October, the first issue printed after October.
- In item 16, indicate the date of the issue in which this Statement of Ownership will be published.
- Item 17 must be signed.
Failure to file or publish a statement of ownership may lead to suspension of Periodicals authorization.

PS Form 3526, October 1999 (Reverse)



RALPH MCELROY TRANSLATION COMPANY

EXCELLENCE WITH A SENSE OF URGENCY®

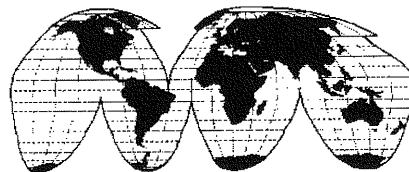
TECHNICAL TRANSLATIONS IN ALL LANGUAGES

- OVER 30 YEARS OF EXPERIENCE AND QUALITY
- FAST TURNAROUND TIME
- COMPETITIVE PRICES
- FOREIGN DOCUMENT RETRIEVAL, CERTIFICATIONS, AND DESKTOP PUBLISHING AVAILABLE
- ELJOTS™ (ELECTRONIC JOB TRACKING SYSTEM)

910 WEST AVENUE
AUSTIN, TEXAS 78701

PHONE	FAX
800 531 9977	512 472 4591
512 472 6753	512 472 6703

INTERNET
SALES@MCELROYTRANSLATION.COM
WWW.MCELROYTRANSLATION.COM



CALL 1-800-531-9977

CISTI's Document Delivery

*You need the document just in time.
We have it just in case.*

Your clients trust you to get the information they need. You can trust CISTI for fast, reliable, quality documents that meet that need.

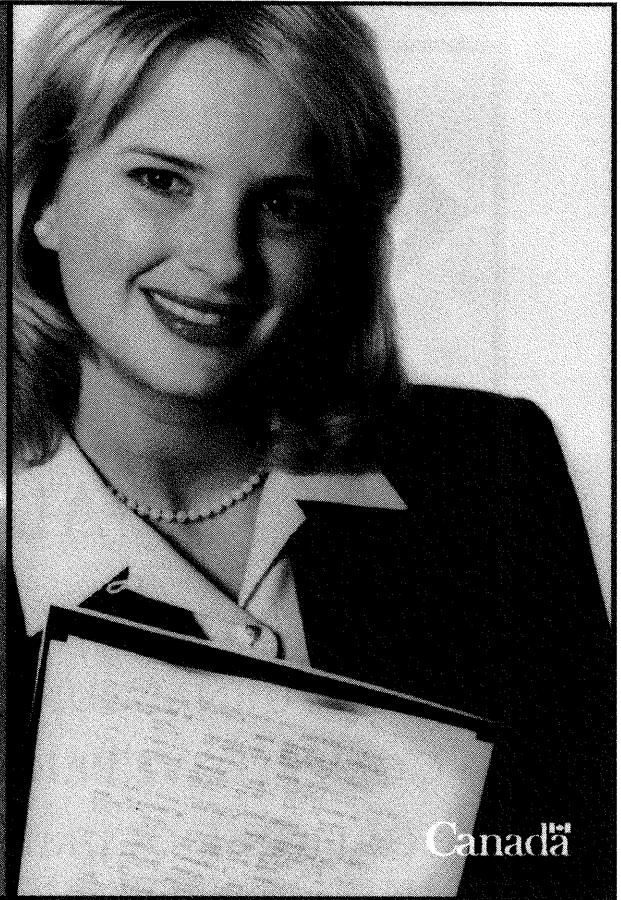
Contact us:
1-800-668-1222
www.nrc.ca/cisti
info.cisti@nrc.ca

One of the largest scientific collections in the world

2.6 million books, conference proceedings and technical reports

More than 90 percent of orders from CISTI's collection processed within 24 hours

Ariel, fax or courier delivery



National Research
Council Canada

Conseil national
de recherches Canada

Canada