Chemistry
A Division of the Special Libraries Association

SLA Connecting People and Information

SLA Chemistry Division E-Newsletter

Volume 22 Issue 2 October 2007

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MESSAGE FROM THE CHAIR

BEN WAGNER

This will be my final message as chair. On January 1, 2008, I become past-chair and look forward to supporting the new board and Susan Cardinal, our incoming chair. I extend my thanks to Ted Baldwin, our outgoing past chair, for all his fine counsel and performance of his duties in that capacity. It will be great to work with Susan and the new board as we kick the year off with a board meeting at the January Leadership Summit in Louisville.

You've heard me mention many times what a terrific learning and networking opportunity the Leadership Summits are. Details of the summit should be announced soon, but do consider joining us from January 23-26, 2008. All members are welcome.

I hope after the board meeting that Sue and I can report progress on a number of initiatives, including:

- A central awards committee to review the criteria for and oversee the Sparks Award, the ACS Publications New Professional Award (sorry, I got the name wrong in the last issue), and the newly authorized occasional DCHE Distinguished Service Award.
- An International Members Initiative Task Force to brainstorm about ways to attract more international members to our division.
- A new divisional strategic plan.

I have no question that the division and the program planning for Seattle 2008 are in the best possible hands. I am looking forward to being able to step back from the day-to-day affairs of the division to focus on informal contact with members and potential members. Membership is what it is all about. I would have never survived the year without everyone's patience and faithfulness. Stay in touch.❖

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The Editor welcomes readers' contributions. Items wanted include: Articles of interest to the community of chemistry information specialists, book reviews for new reference materials, citations for new journals, accomplishments & accolades for the Members' Corner and website recommendations for "Beyond the Chemistry Web…" If you have something you would like to contribute, please contact the Editor or send it via e-mail as a text file or Word document.

Copy deadline for January issue:

January 4, 2008

FROM THE EDITOR'S DESKTOP

Welcome to the October-December 2007 issue! Learn more about *The Elements of Information Literacy*, information competency guidelines for chemistry undergraduates created by the Information Literacy Ad Hoc Committee. Linda Shackle shares more of her property knowledge with a piece on DIPPR. We have a new feature starting with this issue, Professional Focus, an interview with a chemistry librarian by Sophia Guevara. There are a few more reports from the annual meeting from Betsy Aldridge, and Bartow Culp relates some of his experiences at the Biennial Meeting of the German Chemical Society. Plus find all the usual news about what's going on with the division and what is coming up!

As always, don't hesitate to contact me with questions, ideas, and suggestions about the newsletter. Enjoy!❖

Meghan

A NOTE FROM THE CHAIR-ELECT

SUE CARDINAL

Greetings from your Chair-Elect. Hope you have had a lovely fall with fresh apples, pumpkins and a creative and entertaining Halloween. In Rochester, NY the weather has been unbelievably warm, feeling more like summer, but the shorter days and turning leaves signal winter's approach.

2008 will be a year of transition, as several board positions will be changing hands. I am so grateful to all our volunteers and I'm especially appreciative of the service that our outgoing board members have provided us. Thank you to Ted Baldwin, Past Chair; Loren Mendelsohn, Mentorship Chair; Jim Martin, Membership Chair; Judith Currano, Professional Development; and Teri Vogel, Webmaster. I expect great things from our new board members and appreciate their willingness to serve. Congratulations to Luray Minkiewicz, our new Chair-Elect (2008); Cathy DiPalma, Program Planner (2009 meeting) for the MRM section; and Margarete Bower, our returning secretary. Please welcome Denise Callihan, Mentorship Chair; Judith Currano, Membership Chair; and Ted Baldwin, Professional Development Chair.

Please consider attending the Leadership Summit (http://www.sla.org/content/resources/leadcenter/LeadershipSummit/08leadsummit/index.cfm) in Louisville, KY from January 23 – 26, 2008. I've scheduled a board meeting for Saturday, January 26 at 9 am. All board members and other interested bystanders that cannot attend in person are encouraged to teleconference. I'll be in touch closer to the meeting with details. Please let me know if you wish to participate.

Next year's annual conference in Seattle, WA (http://www.sla.org/content/Events/conference/ac2008/index.cfm) from June 15 – 18, 2008 has been on my mind. Rachel Ellison, Nora Stoecker and I are busy entering details into the online program planner. We've decided to pursue the following CE Courses, programs and receptions: Diving into Patents: A Primer for Librarians; Chemistry for the Non-chemist Librarian; Chemical Information Sources, Requests and Reference; Exploring the Generational Element: Chemistry Academic Roundtable; Hot Science Technology Sampler; Electronic Notebooks; Corporate Roundtable; Vendor Roundtable on Materials Resources; Speed Networking Reception; Newcomers Lunch; and Chemistry No-Host Dinner. We are also co-sponsoring the following programs: All Science Poster Session on Collaborative Communities, Science of Coffee, Biofuels/alternative fuels (Alternative fuel technologies for a healthy planet), and Nanomaterials and the Environment.

Thank you to all who have sent us ideas, agreed to teach, speak, moderate, sponsor the programs, serve on the board, provide feedback, and plan to attend. I look forward to working with you!❖

THE ELEMENTS OF INFORMATION LITERACY

CORY CRAIG

Just what do undergraduate chemistry majors need to know about using the library and finding chemical information? This has been the focus of the SLA Chemistry Division, Ad Hoc Committee on Information Literacy for the past two years. The result of our work is a set of guidelines that identify the information literacy skills and knowledge that undergraduate chemistry majors should have in order to effectively navigate the chemical literature and be well-prepared for graduate work and/or employment as a chemist.

Our guidelines, available on the SLA Chemistry Division website at http://units.sla.org/division/dche/il/index.htm, are entitled ***Information Competencies for Chemistry Undergraduates: the elements of information literacy***. We consider our guidelines to be an evolving document, and welcome your comments and feedback.

The guidelines consist of four sections. Each section lists specific information competencies that students should develop, and also identifies titles of resources we recommend. The first section briefly identifies "big picture" skills, in other words, what students need to understand about the tools, services, and resources available at academic libraries; the scope and nature of scientific literature; and the unique features of the chemical literature. The second section outlines skills needed to locate property, spectra, and safety information. Section three lists expected skills and recommended resources for finding chemical literature. The last section briefly covers what students need to understand about scientific communication. The intended audience for this document is librarians and educators that work with chemistry undergraduates.

Information Competencies for Chemistry Undergraduates: the elements of information literacy is essentially a list of subject-specific information literacy skills for chemistry undergraduates. However, in addition to being subject specific, our guidelines take a rather more pragmatic approach than the ACRL *Information Literacy Competency Standards for Higher Education* and *Information Literacy Standards for Science and Technology* because we focus on clearly articulating specific skills, abilities, and resources. We envision that our guidelines can be used with chemistry undergraduates to

- improve instruction and assessment of information literacy skills;
- provide a list of recommended resources for libraries;
- provide a "starting point" for libraries or academic chemistry departments that wish to develop an information literacy program.

As many in the chemical information community are aware, the American Chemical Society (ACS) Committee on Professional Training (CPT) released a draft revision of ACS Guidelines in March 2007 (expected to be formally adopted in 2008). These are the guidelines used to grant ACS approval to undergraduate chemistry programs. For the first time, the ACS Guidelines include the requirement that "approved programs must provide instruction on the effective retrieval and use of the chemical literature" (*ACS CPT, Undergraduate Professional Education in Chemistry, 2/27/07 Draft*, page 9, Section 7.2, Available online at https://portal.acs.org/portal/fileFetch/C/CTP_003934/pdf/CTP_003934.pdf).

We believe that ***Information Competencies for Chemistry Undergraduates: the elements of information literacy*** can be helpful to academic libraries and chemistry departments working to meet the new ACS CPT requirement. Because our guidelines clearly articulate skills, abilities, and resources, they can be useful in a wide range of instructional situations, ranging from identifying relevant skills to teach at one-time library instruction sessions to developing a more comprehensive instruction program in the use and retrieval of chemical information.

We plan to review and revise our guidelines yearly in order to maintain a document that is useful to the chemical information community. Any comments, suggestions, or feedback are welcome. Please send any comments to Cory Craig, cjcraig@ucdavis.edu.❖

NEWS FROM THE MRM SECTION CHAIR

BETSY ALDRIDGE

Planning is progressing for the 2008 annual SLA conference in Seattle. Nora Stoecker, MRM Chair-Elect, provided the following report on the Materials Resources Roundtable.

> R&D development, engineering applications, competitive intelligence, market research – the need for information about materials and their properties touches almost all of our clients and customer organizations. Database providers, publishers, associations, websites – there are so many potential sources of information, and so many tools and applications that could help get the right information, in the most usable form, to those clients and customers. Wouldn't it help to have respected representatives of the materials information provider community describe for us ways in which their resources have really been used to add value to scientific, engineering, and business applications?
>
> At the 2008 SLA conference in Seattle, the Chemistry Division's popular vendor roundtable will be hosted by its' Materials Research & Manufacturing section. We expect to have five vendors at this 90-minute session – and are planning to have a "case-studies" feature to the session. As I write, ASM International and STN-Fiz Karlsruhe have already agreed to attend. I expect to hear very soon from CSA, and have just contacted several others. It should be a really great session! Hope to see you there.

I'm working with TRAN and FAN Divisions on a program on Alternate Fuels, as a follow-up to the Hybrid Vehicles program. So far, Dr. Richard Nelson, Director/Dept. Head, Engineering Extension, Kansas State University and biodiesel expert, as well as a librarian for the National Agricultural Library, has agreed to speak.

Please let Nora or me know if you'd like to assist with either of these programs or any that our Chemistry Division is sponsoring or any other Division/Section activities. We'll get you plugged in!

I've really enjoyed this year and hope you've gained from the Section's contributions to our Division and Association. Many thanks to all of our MRM volunteers and members who make this a growing and valuable group and to our DCHE officers who are a true delight! Their commitment and efforts to fully incorporate the Section have been greatly appreciated. I know Nora and Cathy DiPalma will continue to lead the Section in providing programs that are beneficial to our materials and manufacturing information needs and fulfill the other needs and desires reflected in the official MRM Strategic Plan.

See you in Seattle! ❖

pH property Help: DIPPR

Linda Shackle

If you're a member of CHMINF-L you've undoubtedly seen DIPPR mentioned whenever the discussion focuses on finding physical and/or thermodynamic properties for chemicals. The American Institute of Chemical Engineers' Design Institute for Physical Properties (DIPPR) was formed in the late 1970's in response to industry's need for an organization to oversee a database project.

The database compilation was officially designated Project 801 (Evaluated Process Design Data) and continues to this day with new chemicals being added regularly. Originally envisioned to include 1,000 compounds commonly used by industry, the current database has over 2,000. Newer data is only available to database sponsors for several years before it is released to the public. The database covers 48 physical, thermodynamic and transport properties for pure compounds.

The properties covered include

- Acentric factor
- Autoignition temperature
- Boiling point
- Critical compressibility factor, pressure, temperature, and volume
- Density
- Dipole moment
- Enthalpy/heat of combustion, formation, fusion, and sublimation
- Entropy
- Flammability
- Flash point
- Gibbs energy
- Heat capacity
- Melting Point
- Parachor
- Radius of gyration
- Refractive index
- Second virial coefficient
- Solubility parameter
- Surface tension
- Thermal conductivity
- Triple point pressure and temperature
- van der Waals area and reduced volume
- Vapor pressure
- Viscosity

The Project 801 database (also called the DIPPR Chemical Database, or sometimes, just plain "dipper") is available in different formats and versions:

- Knovel has the January 2005 version of 1,843 compounds and, of course, has "knovelized" the database into 19 interactive tables. See http://www.knovel.com/knovel2/Toc.jsp?BookID=1187 for details.
- Brigham Young University (BYU) provides web access to an online version of the database and a version that can be loaded locally on either a single PC or a server. See http://dippr.byu.edu for details.
- BYU also provides a free online student version of the database with only 100 compounds. Individuals must register to use and the accounts last only until the end of the academic year (June 30th). See: http://dippr.byu.edu/students/

In addition to the Project 801 Database, the Institute has sponsored other projects over the past 29 years. Project 805 measures phase equilibria on binary systems, 821 vapor pressure of liquids, 851 critical properties of unstable compounds or those questioned in the literature, and 871 for enthalpies of combustion and formation. Results of DIPPR projects have appeared in several sources and in some cases, if it involves pure components, the data may have ended up in the Project 801 database. Here's what I've been able to identify so far for published DIPPR data:

- AIChE monographs:
  - Handbook of aqueous electrolyte thermodynamics : theory & application (1986)

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BEYOND THE CHEMISTRY WEB...

BOB BUCHANAN

Thanks to Dana Roth for suggesting websites. Feel free to send recommendations to me at buchara@auburn.edu.

GENERAL

Search over 900 open access repositories from across the globe using a single search engine: The Directory of Open Access Repositories or **OpenDOAR**. You can also locate open access repositories by region, country, subject, or content type.
http://www.opendoar.org

Based on the 1950s radio segment by Edward R. Murrow, **This I Believe** is "a national media project engaging people in writing, sharing, and discussing the core values and beliefs that guide their daily lives."
http://thisibelieve.org

GENERAL SCIENCE

Written by experts and vetted by an editor, the **Encyclopedia of Earth** offers over 2,000 articles about the earth in non-technical language.
http://www.eoearth.org

Search across the science portals of twelve countries via **WorldWideScience.org**. Sponsored by the Department of Energy, this federated search engine is surprisingly fast. The search default is the Google "AND" but Boolean operators and truncation are also supported.
www.worldwidescience.org

The **Human Metabolome Project** provides extensive curated data for about 2,500 human metabolites – molecules smaller than 1,500 amu produced by metabolic reactions. Records compile data from many sources, including experimental concentration, NMR and MS spectra, and point to related data in other online databases.
http://www.hmdb.ca

If you teach about patent information, recent real-life examples can be found at **Patent Docs: Biotech & Pharma Patent Law News Blog** under the subcategories Novelty, Obviousness, and Utility.
http://patentdocs.typepad.com/patent_docs

Scitalks: Smart people on cool topics is a rapidly growing science video database. Combining an active collection of video links with visitor uploads, Scitalks makes science more accessible. Be careful; it is easy to lose track of time watching the fascinating science videos found here.
http://scitalks.com

Sponsored by the NSF and the Public Library of Science, **SciVee** provides a venue for scientists to post publications along with a video presentation. The goal is to help make science articles more accessible to the scientific community and the general public.
http://www.scivee.tv

Aimed at the biosciences, **JoVE: Journal of Visualized Experiments** aims to "increase reproducibility and

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REMEMBER THE INTERNATIONAL: MATERIALS AND MANUFACTURING ASSOCIATIONS AND RESOURCES

BETSY ALDRIDGE

SLA has an initiative focusing on international members, so it's appropriate to highlight a few international associations/resources in our materials/manufacturing world. Please share additional finds via our MRM listserv.

Meet the Asian-Australasian Association for Composite Materials (AACM) which "aims to encourage the interchange of knowledge in all aspects of composite materials amongst both the scientific and engineering communities." It has a biannual conference; the last one was in 2006. See http://www.me.ust.hk/~accm5/.

Have you heard of dasimef? The lead for this public web-based project is Prof. G. Hirt, Institute of Metal Forming (IBF) from University of Technology Aachen (RWTH) in Germany. Their goal is "to collect addresses of laboratories which measure or, more generally, determine physical data that can be used for modeling metal forming processes. Besides the contact addresses we want to provide the determination methodology and the testing requirements to interested customers." This database is freely available on the web at http://www.ibf.rwth-aachen.de/dasimef/start.php (registration required).

The Fraunhofer Institute for Mechanics of Materials "develops solutions to increase the safety, availability, and lifespan of components and systems ranging from microelectronic devices to power plant components. The Institute develops concepts to make optimum use of new materials as well as cost-effective and environmentally compatible shaping and precision-machining processes." See http://www.iwm.fraunhofer.de/englisch/e_index.html. They provide their annual report on the website and their parent organization provides a database to search reports and a magazine at http://www.fraunhofer.de/fhg/EN/publications/index.jsp.

Intelligent Processing and Manufacturing of Materials http://www.ipmm.mining.ubc.ca/index.php describes itself as an "informal international community of people interested in intelligent software and hardware applications and solutions to problems in the creation and manufacture of minerals, metals, materials and products." They just had their biannual conference in June; view programs at http://www.ipmm.mining.ubc.ca/Confprogram.php.

The objective of the International Cold Forging Group is "to promulgate the economic advancement of cold forging by encouraging and coordinating national and international co-operation, by stimulating research, and by disseminating knowledge of relevant processes and sciences." See http://www.lft.uni-erlangen.de/SEITEN/ICFG/index.html for a collection of documents, data sheets, and papers.

International Academy for Production Engineering aims to "promote scientific research, related to manufacturing processes, production equipment and automation, manufacturing systems and product design and manufacturing; cooperative research among the members of the Academy and creating opportunities for informal contacts among CIRP members at large; and the industrial application of the fundamental research work and simultaneously receiving feed back from industry, related to industrial needs and their evolution." Find their newsletter and more on their website (http://www.cirp.net/index.php?option=com_frontpage&Itemid=1). They have several upcoming conferences in 2008.

International Committee on Environment and Manufacturing – no objectives are provided. The chair this year is Prof. Karl Kuzman, Forming Laboratory & Faculty of Mechanical Engineering, University of Ljubljana, SLOVENIA. ❖

PROFESSIONAL FOCUS: MARIE FRATIES-BLOCK

INTERVIEW BY SOPHIA GUEVARA, MLIS

1. What is your position and who are the clients that you serve? I am a Senior Librarian at BASF Corporation in Wyandotte, MI. My clients are United States, Canada, and Mexico BASF employees and include chemists, engineers, and marketing, business and legal managers.

2. What is a typical day like for you in your position? As I'm sure other librarians will agree, there is no typical day. Reference questions posed to me can range from the very technical such as the physical properties of a specific chemical to business such as the annual sales for company xyz to the more mundane library questions like where to find books on polymers and plastics. I also maintain the library, along with support staff, here at our site and a few satellite sites. In addition, I coordinate with other information professionals within the US and Europe to develop and make accessible online databases, electronic journals and other virtual resources.

3. How did you get involved in chemistry librarianship? I did not start out in chemistry librarianship nor was it my goal but I've learned to love it and appreciate the value of science. My educational background is in English and Literature. I always feel that I'm the most unscientific person here and it shows. Last week, during a business retreat we took a personality test as part of a team building exercise and when the results were announced, I was alone in my category; everyone else fell into the analytical thinking category and I fell into the intuitive thinking category. But all agreed that it was ok and that the exercise showed that when building a team it's better to have a cross section of people; otherwise the team will never think outside the box. I began my career in a small hospital library. After working there for more than nine years, I happened to notice a job advertisement for a corporate librarian in a near-by city. I applied and was accepted at BASF Corporation. I feel that my work at the hospital helped me with the duties and responsibilities here. Both fields deal with scientific and technical literature and serve clients working for a single organization unlike a public library where clients come from outside and have many diverse interests.

4. What innovations have you made use of in order to best deliver the information your clients are seeking? The internet has definitely made an impact on delivery of information to my clients. Today, chemists within BASF could not work effectively without accessing e-journals or web-based desktop tools like SciFinder.

5. What do you consider to be the most important tools (information products) that you use in any given day?
Despite the debates and controversies, I love e-books, like Google Book Search. I use it to find answers to reference questions, and I use Amazon's "Search Inside the Book" feature to evaluate new acquisitions. I've even used Google Scholar to help weed the collection. If no one is currently citing a book, it's a potential discard. Hawley's Condensed Chemical Dictionary is my chemical bible. It's where I look first for CAS registry numbers, property information, structure drawings, molecular formulas, and even potential product applications. Another resource I use, almost as often as Books In Print or Ulrich's Periodical Directory is "SI: Special Issues." This is a service I found while scouting the vendor hall during a recent SLA Annual Meeting. As you know, many journals publish "special issues" on a regular or occasional basis. Examples of special issues include "Buyers Guides" or the Fortune 500 lists. "SI: Special Issues" tracks over 3000 trade journal publications and is an excellent way to find data about industries.

6. How do you keep yourself informed about the profession's best practices and the newest information products? What resources would you suggest to other librarians? I regularly read lists like CHMINF-L (Chemical Information Sources Discussion List). I've learned a lot from this group and appreciate the time and effort that people are willing to spend helping others. I also read professional journals like Search, Online, and Information Today.

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How Hybrid Vehicles Will Move You*

Betsy Aldridge

Matt Barrett, Transportation Division Chair, moderated the session on hybrid vehicles at the SLA Annual Meeting in Denver which had about 50 attendees. The panel provided recent developments in the hybrid vehicle propulsion systems for heavy and light duty vehicles (freight trains, trucks, buses, cars, and possibly maritime and aviation applications), discussed the technology's adoption by industry and consumers, as well as the future of hybrid vehicles.

The widening of gap between oil production and consumption over time on a chart presented by Jeff Gonder of the U.S. National Energy Research Laboratory's Advanced Vehicle Systems Group (http://www.nrel.gov/vehiclesandfuels/ctts.html) was staggering. New discovery is decreasing rapidly, as well. Two barrels are consumed for every one discovered (Campbell, 2005). He compared lead acid, nickel metal, lithium, plug-in, fuel cell technologies. There has been progress, but there is still a long way to go. Although hybrid electric vehicles saved 5.5 million barrels of oil in 1999, that's less than we will now import in one day alone. Some of Jeff's favorite sources include fueleconomy.gov, eia.doe.gov, and howstuffworks.com.

Lee Kemp of the Denver Rapid Transit District's Hybrid Vehicle Program reported that, in a comparison between 4 diesel and 4 hybrid vehicles in Denver, the hybrids demonstrated 15% lower maintenance costs and 30% better fuel mileage. Based on those findings, they're planning to purchase 45 more hybrids! He indicated that it's the energy storage system which needs more research. They look at lifecycle costs. It's currently $20,000 per bus to replace the energy storage. They're evaluating fuel cells and finding regenerative braking interesting for stop and go driving.

Richard Parish of WestStart (http://www.weststart.org/) reported that their goal is to reduce gasoline use 15% by 2020. The issues spurring change are rising fuel costs, major engine changes (2007-2010 requirements), increased electric power, and idling management. The Hybrid Truck Users Forum and its working groups hope to facilitate development of the market for hybrid trucks. Partnerships will be the key to success. A recent trial with 24 hybrid vehicles found excellent user acceptance with a 9-55% improvement in fuel economy. Hydraulic hybrid shows promise. He'd like to see IRS provide incentives/tax credits. Biodiesel mixes have shown a breakeven point after year 9.

The program ended with a vigorous Q & A exchange. The session was sponsored by the Transportation, Chemistry (with Materials Research and Manufacturing Section), and Engineering Divisions. Sponsors included Paterra, Inc., Thomson Scientific, and Dialog. ❖

IHS Standards Facility Field Trip*

Betsy Aldridge

About 50 participants ventured out of downtown Denver to the IHS Standards Facilities in a nearby suburb. It was a lovely day, and it felt good to get out of the city and see the area from the comfortable bus.

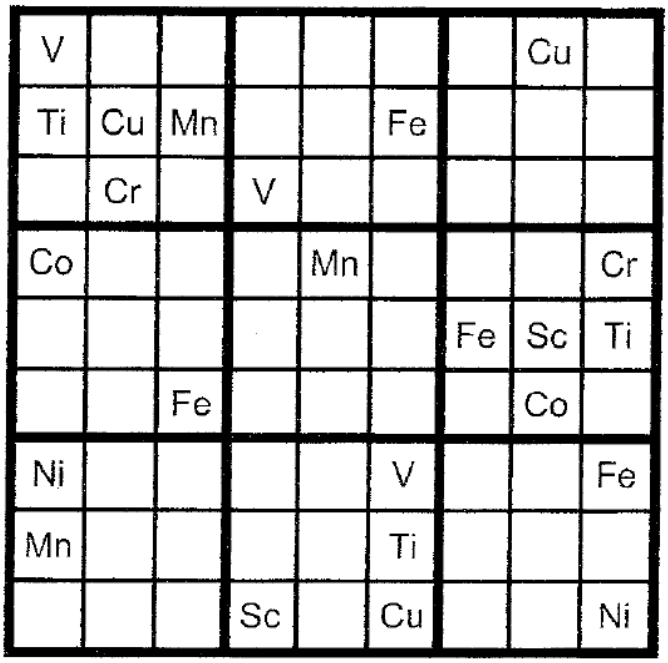
IHS supplies engineering standards to many special libraries. Thomas Littman, Senior Vice President for Technical Publishing and a member of the Engineering Management Team, welcomed and presented us with an overview of IHS services and the plan for the tour. He honored Sara Davis, Engineering Librarian of the Year, who had joined the tour. The tour groups saw the Network Operations Center, Production, Product Development, Training and Marketing, Customer Support, and other departments. We saw their exhibit of past technologies (like the VSSMF data files) and old brochures. Flags for all the countries they serve are flying proudly in the production area. I was surprised to learn they started with vendor catalogs before adding the standards arm. They now have over 2500 employees worldwide. They do have a small library.

I was pleased to see banners like "We're Not Pleased Until Our Customer Is Pleased," "Excellence is our Standard," and "Committed to Quality in Every Way." It reminded me of the Japanese manufacturing Kaizen approach (continuous improvement) so prevalent in manufacturing. They use quality circles and Six Sigma techniques!

Thanks to IHS, the sponsor and host, and the Engineering and Chemistry Divisions (with the Materials Research and Manufacturing Section) who planned this event. Let's do more like it in the future!❖

**The above are reports from the 2007 SLA Annual Meeting in Denver. –Ed.*

CHEMISTRY SUDOKU



V							Cu	
Ti	Cu	Mn			Fe			
	Cr		V					
Co				Mn				Cr
						Fe	Sc	Ti
		Fe					Co	
Ni					V			Fe
Mn					Ti			
			Sc		Cu			Ni

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property Help, continued from page 6

- Handbook of diffusion and thermal properties of polymers and polymer solutions (1998)
- Handbook of polymer solution thermodynamics (1993); available on Knovel, see: http://www.knovel.com/knovel2/Toc.jsp?BookID=973
- Thermodynamic analysis of vapor-liquid equilibria (1991)
- Transport properties and related thermodynamic data of binary mixtures (1993-1998, 5 volumes); volumes 1-4 are also available on Knovel, see: http://www.knovel.com/knovel2/Toc.jsp?BookID=907

- AIChE Symposium Series #244 (1985), 256 (1987), 271 (1989) and 279 (1990) are all on phase equilibria; #298 (1994) Thermophysical properties for industrial process design;
- DIPPR Data Series:
  - 1: Experimental results for phase equilibria and pure component properties (1991)
  - 2: Experimental results for DIPPR 1990-91 projects on phase equilibria and pure components properties (1994)
- Journal of Chemical and Engineering Data (volume, issue, date):
  - 41:6 (1996)
  - 42:6 (1997)
  - 44:3 (1999)
  - 45:2 (2000)
  - 47:4 (2002)
  - 49:1 (2004)
  - 49:6 (2004)
  - 51:6 (2006)
  - 52:1 (2007)

I also found traces of a Project ESP (at one time referred to as Project 911), that appears to be a compilation of environmental, safety and health property data that is "coming soon."❖

BIENNIAL MEETING OF THE GERMAN CHEMICAL SOCIETY

BARTOW CULP

The city of Ulm in southern Germany is famous for two things – the first is the fact that the steeple of the Ulmer Muenster church is, at 161.5 meters, the tallest in the world. But, after climbing up and down the tower a few weeks ago, I couldn't remember the second thing. I was in Ulm with several American colleagues to attend the biennial meeting of the German Chemical Society (GDCh). We were there to present talks at a symposium entitled "Wikis, Blogs and Podcasting: Creating and Distributing Chemistry Teaching Materials in the Information Age." The symposium was part of an unprecedented and ongoing collaboration between the information divisions of American Chemical Society (ACS-CINF) and the GDCh. This working group has been meeting for several years with the mission of fostering a transnational dialog to develop a shared approach for the access, exchange, and management of chemical information. The group is working with the ACS CINF Education Committee and the SLA Chemistry Division's Ad Hoc Committee on Information Literacy to make available the work that many have done in the areas of learning resources and information literacy. While there remains much work ahead for the group, there is great potential for advancing chemical information literacy on both sides of the Atlantic.

So, what is a German Chemical Society meeting like? Well, sort of like an ACS or an SLA national meeting, but smaller (about 1500 people), and better food (*Flaedlesuppe*, *Linseneintopf*, and the famous *Ulmer Zuckerbrot* – recipes available on request). Oh, and they speak German, mostly. Otherwise, you could hardly tell the difference. Our symposium featured Grace Baysinger, Science Librarian at Stanford University, who gave a comprehensive overview of Sakai, the open source online collaborative learning environment that is being developed by hundreds of institutions worldwide; talks on open standards by Chris Steinbeck (Koeln University) and open access by Barb Greenmann (University of Colorado); Dr. Jost Bohlen from FIZ CHEMIE Berlin talked about the curiously-named but classy and comprehensive chemistry teaching resource, Chemgaroo; and Brian Lynch (St. Francis Xavier University, Antigonish, Nova Scotia) gave details and examples of podcasting conferences and lectures. I reprised the state of chemical information instruction in America and in Germany, and reviewed the goals and accomplishments of the working group. The talks were well-received, and we all had a chance to make new acquaintances – both personal and professional. The audio files will be available soon – please contact me for more details if you are interested. Stay tuned for future developments!

Ah, I remember the second thing for which Ulm is famous: Der Schneider von Ulm, a rather unfortunate fellow in terms of his choice of locomotion and timing. I've run out of room for this article, but there's a nice Wikipedia article about him, with pictures: (http://de.wikipedia.org/wiki/Albrecht_Ludwig_Berblinger).❖

SUDOKU SOLUTION

V	Fe	Co	Cr	Ti	Ni	Mn	Cu	Sc
Ti	Cu	Mn	Co	Sc	Fe	Cr	Ni	V
Sc	Cr	Ni	V	Cu	Mn	Ti	Fe	Co
Co	Ni	Ti	Fe	Mn	Sc	Cu	V	Cr
Cr	Mn	V	Cu	Ni	Co	Fe	Sc	Ti
Cu	Sc	Fe	Ti	V	Cr	Ni	Co	Mn
Ni	Co	Cu	Mn	Cr	V	Sc	Ti	Fe
Mn	V	Sc	Ni	Fe	Ti	Co	Cr	Cu
Fe	Ti	Cr	Sc	Co	Cu	V	Mn	Ni

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2008 MARION E. SPARKS AWARD FOR PROFESSIONAL DEVELOPMENT

CORY CRAIG

The Chemistry Division of the Special Libraries Association (SLA) is sponsoring a student/new member travel award to defray the costs of attending the 2008 SLA Annual Meeting June 15-18 in Seattle, WA. The award is intended to encourage the professional development of student members and new members of the Chemistry Division and encourage their participation in Chemistry Division activities.

TRAVEL AWARD: $1,500 stipend to attend the 2008 SLA Annual Conference. The winner will also receive a certificate of achievement and will be introduced at the Chemistry Division Business Meeting & Breakfast.

ELIGIBILITY: All student members of the Chemistry Division and all new members of the Chemistry Division (individuals who have joined since January 2007) are eligible. All applicants must have joined the Chemistry Division by March 3, 2008. See below for how to join.

APPLICATION PROCEDURE:
Please submit the following:
-A brief essay that: a) clearly articulates your objectives for professional development; and b) indicates what you hope to gain from attending the SLA Annual Meeting. Maximum length: 2 pages.
-Resume
-Names of two references.
-Brief budget (expected expenses for registration, airfare, lodging, food and/or continuing education course). Registration in a Chemistry Division or other Continuing Education (CE) course is recommended, but not required.

DEADLINE: All applications must be received by March 17, 2008. The winner will be notified by April 10, 2008. Essays will be judged by a panel of SLA Chemistry Division members.

HISTORY: The award is named to honor Marion E. Sparks, a chemistry librarian at the University of Illinois from 1913 until her death in 1929. Ms. Sparks contributed a great deal to the field of chemical information, her achievements include teaching courses on chemical information, and authoring and publishing what is argued to be the first book to formally address chemical literature and library instruction.

SUBMIT APPLICATION VIA EMAIL TO:
Cory Craig
University of California, Davis
Physical Sciences & Engineering Library
One Shields Avenue
Davis, California 95616-8676
cjcraig@ucdavis.edu

SLA CHEMISTRY DIVISION SPARKS AWARD: http://www.sla.org/division/dche/sparks.htm

Want to join the Chemistry Division of SLA?
Not a member of SLA? To join SLA go to http://www.sla.org/content/membership/joinsla/index.cfm. When you join SLA, you can also join one division for free, additional divisions are $18/year.

Already an SLA member? To join the Chemistry Division either: 1) Download the SLA Change/Add Units form (http://www.sla.org/content/membership/unitchange.cfm) and fax or mail it to SLA. ***OR*** 2) Call 1-703-647-4936 and pay with a credit card. When you join SLA, you can join one division for free, additional divisions are $18/year.

Beyond the Chemistry Web, continued from page 7

transparency in biological sciences." Although there are only 114 articles, the quality is impressive. In contrast, and tending towards YouTube meets the biology lab, **LabAction.com** is a biology video-sharing website.

http://www.jove.com
http://www.labaction.com

CHEMISTRY

- The National Library of Medicine's **ToxSeek** searches the ToxNet databases and (optionally) other toxicological and environmental health databases from NLM, NIH, the U.S. government, and international sources. Relying on natural language, this fast federated search engine clusters results and sorts by relevance.
  http://toxseek.nlm.nih.gov

- Finding information in your print Gmelin collection became easier with the **Gmelin-Complete-Catalog** which is an online version of Springer's Complete Catalog of 1997/98. Thanks to Ben Wagner for providing this document as a searchable PDF.
  http://ublib.buffalo.edu/libraries/asl/guides/Gmelin-Complete-Catalog.pdf

- Nan Butkovich has put together **A Quick Guide to Citing Using the ACS Style Guide, 3rd Ed.** that summarizes key points in just four pages. Students will appreciate its brevity.
  http://www.libraries.psu.edu/pams/Quick%20Guide%20ACS.pdf

- You can download the **Generated Database of Chemical Universe of Small Molecules** which contains 26.4 million compounds of known, and not-yet-known, molecules of that consist of 11 (or fewer) atoms of C, N, O, or F. Structures must meet constraints of chemical stability and synthetic feasibility.
  http://dcbwww.unibe.ch/groups/reymond❖

Professional Focus, continued from page 9

7. What are the top three challenges for chemical information professionals? What tips can you provide to other librarians to overcome them? Information overload is a definite challenge. How do I stay ahead of technology, changes, and opportunities to supply information to my clients? Since this is something that I struggle with, I don't have any tips that would give other librarians insight on overcoming this problem other than connecting with colleagues and sharing ideas.

8. What suggestions do you have for new information professionals who are interested in becoming chemistry librarians? While it's important to know the basics of chemistry and chemical reactions, it's much more important to understand the synergy between chemistry and business and how they fit together. There's not much practical use for a chemical experiment or theory unless its results can be manufactured and marketed. What I'm trying to say is, "Even if you're not a brilliant scientist don't be afraid of chemistry." It's not that daunting. Like me, you can learn chemistry.

9. How can the SLA and the Chemistry division continue to support information professionals such as you? SLA and the Chemistry Division can support information professionals by continuing all of its mentoring efforts. While not part of an official mentoring program, I had the wonderful opportunity to work along side Ben Wagner of the University of Buffalo while planning the 2007 Chemistry Division program for the Annual SLA meeting. Ben is a great mentor. I learned a lot from him and I appreciate having the opportunity he provided.

10. In closing, what are your thoughts on the future of chemistry librarianship? I don't have a crystal ball, but chemical informatics seems to be a wave of the future. In my opinion, clients are becoming database search savvy and are seeking more assistance with data analysis and knowledge management. Informatics deals with converting data into information and then using that information with applied technologies to solve problems. There's sure to be a role for librarians in this emerging field.❖

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