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Engineering Division

Daureen Nesdill

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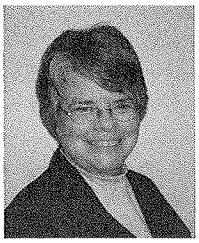
Engineering Division

Daureen Nesdill, Chair



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.

Organizations such as ALA, AIIP, ASIS&T, and SCIP have codes of ethics. SLA does not. To address this, the SLA Public Relations Advisory Council (PRAC) recently undertook a new initiative to help us all learn about information ethics and to work towards developing a Code of Ethics for SLA and its members. We will be asked to participate in various components of this initiative throughout 2008.

From the 2007 *Study Results and Recommendations for an Ethics Code for SLA:*

> These ethics codes and guidelines address a variety of professional values and behaviors, including levels of services and responsibility for service and system quality; equity of access; the role of personal beliefs in providing services; intellectual freedom; privacy and confidentiality; intellectual property rights and other legal considerations; conflict of interest; treatment of or relations with employer, colleagues, or users, and balancing their competing needs; informing users about the sources provided; obligations for professional development; accurate representation of one's expertise; protecting the reputation of information professionals and promoting the information profession; concern for the public good; concern for the preservation of cultural heritage; and enforcement of such codes.

Each SLA unit has already appointed an SLA Ethics Ambassador, and they are busily undergoing training via webinars. The Ethics Ambassador for the Engineering Division is Patricia E. Kirkwood, Engineering and Mathematics Librarian at the University of Arkansas. Patricia has also served as Head of the Physical Sciences Library at Cornell and as the Chemistry/Science Librarian at Emory University. Patricia has corporate library experience working for Bell Communications Research, a position she took after earning her MLIS at the University of Illinois at Urbana-Champaign. Patricia earned an undergraduate degree in chemistry at Pacific Lutheran University.

Patricia will eventually be investigating the use of SLA's toolbox of social networking software to facilitate discussions and the collection of information and opinions of members of the Engineering Division, worldwide. As a first step and an introduction to ethics, we will be asking you to view a webinar, Ethics 101 from the Click U Live! Website. Watch for an email. There will be no charge for this event.

The reference to social networking software segues directly into my next topic, the mini symposium taking place during the 2008 SLA Annual Conference in Seattle. It is about cyberinfrastructure, or e-Science, or e-Research, or e-collaboration or my favorite phrase, grid-science. These are different terms for basically the same thing: the collaborative, interdisciplinary research being conducted as the result of advancements in Internet technology. Don't assume I'm only referring to science and engineering research. Last night I had the pleasure of attending a theatrical performance at the University of Utah. The performers were not only in front of me, but also streamed in live from Chicago, Rochester and Wales. It was 2:00AM in Wales so they did not have an audience. The collaborators in Chicago and Rochester did have audiences. Three audiences located in different cities were enjoying the antics of performers interacting live from four different locations through the magic of the Internet. It was entertaining.

If you want to learn more about cyberinfrastructure, then plan on attending the four SLA sessions. Learn what e-Science is, some of the tools being implemented and its impact on librarians, both corporate and academic. We are bringing in top speakers (sorry, no performers) in their fields for these sessions, so the sessions will definitely be informative.

On Monday morning, June 16th, we will have the annual Standards Update session. Lee Pharis has done a great job organizing the session and bringing in many of the vendors who provide us with industry standards. Also on Monday is Science and Engineering 101. The topics for this year are aerospace and nanotechnology resources. This is one of those sessions where everyone learns something. Tuesday morning

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is the Computer Science Roundtable. One topic for discussion is the question of whether there should there be a computer science unit within SLA. Tuesday afternoon Engineering partners with the Science-Technology Division for the annual Contributed Papers session. Engineering Division members are well represented.

There is no separate Engineering Division business meeting and lunch scheduled for this conference. The business meeting will be a part of the 40th anniversary reception, which will take place Sunday evening at 7:30-9:30PM. Look for "Engineering Division's 40th Anniversary Celebration and Business Meeting" in the Personal Planner. It was omitted from the printed preliminary program you received in the mail. I do promise to keep the business meeting as short as possible, so sign up and come out to celebrate the Division's 40th.

A few notes:
Mark O'English is the Division's new ASEE-ELD Liaison. Mark is the Science Reference Librarian and also the Electronic Resources Librarian at Owen Library, Washington State University. Welcome, Mark.

If you are attending the Conference in Seattle and want to assist with any of the sessions, please email me at daureen.nesdill@utah.edu.

Two elected positions on the Engineering Board, Secretary and Chair Elect, will be opening for 2009. Improve your program development skills while implementing leadership skills and all this while working with a great group of people. Elected positions may receive travel assistance. For those who are interested, please send me an email. For additional information on the duties of each position see the Division's website at http://units.sla.org/division/deng.html.❖

Daureen Nesdill
Engineering Division Chair 2008

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Engineering Division Sessions – SLA Conference, Seattle, June 2008

[Ed note: the descriptions have been abbreviated; please see the conference planner for more information]

SATURDAY JUNE 14, 2008
8:00AM-12:00PM
Defense Information for the Research Community
Ticked event # 255 Price USD199.00
Do you need access to defense research information? This course will present resources and tools to identify and retrieve information from the Defense Technical Information Center's (DTIC's) unique collections and other sources. Prerequisite: Attendees must meet eligibility requirements for DTIC registration for access to Private STINET. See http://www.dtic.mil/dtic/registration/index.html
Speaker: Candace Parker, Librarian, Defense Technical Information Center
Presented by: Engineering Division
Sponsored by: Defense Technical Information Center

1:00PM-5:00PM
Defense Information for All
Ticked event # 300 Price USD199.00
The course will cover searching Department of Defense (DoD) research results using tools developed by the Defense Technical Information Center (DTIC), the premier provider of DoD technical information. Using the Scientific and Technical Information Network (STINET), and other unique resources, researchers have access to a wealth of scientific, medical, engineering and technical data not available through standard bibliographic services.
Speaker: Philip Tomposki, Technical Information Specialist, Defense Technical Information Center
Presented by: Engineering Division
Sponsored by: Defense Technical Information Center

SUNDAY JUNE 15, 2008
12:00PM-2:00PM
Engineering Division and Aerospace Section Board of Directors
Members of the Engineering Division Board, Aerospace Section Board and the Advisory Board will meet to discuss issues pertaining to the Division.
Presented by: Engineering Division, Aerospace Section

7:30PM-9:30PM
Engineering Division's 40th Anniversary Celebration and Business Meeting
Ticked event # 520 Price USD15.00
This year the Engineering Division will be

celebrating its 40th anniversary. We first got together back in 1968! Meet the 2008 Elsevier/ SLA Engineering Librarian of the Year and the winners of the IEEE Continuing Education Stipend, the Inspec Student Travel Stipend and the Bonnie Hilditch International SciTech and Engineering International Travel Award.
Presented by: Engineering Division, Aerospace Section
Sponsored by: AIAA, Thompson Scientific

MONDAY JUNE 16, 2008
9:00AM-10:30AM
Standards Update
The annual standards update will provide information on what is happening in the world of standards and the latest news from the vendors. Participants will have the opportunity to give feedback to organizations developing standards.
Presented by: Engineering Division, Petroleum & Energy Resources Division
Sponsored by: Thompson Scientific

1:30PM-2:30PM
Cyberinfrastructure: Building Bridges
You've heard the term cyberinfrastructure. Do you know what it means – really means? Something to do with science? Sometimes referred to as e-science? Actually, all subject areas are included, but it started in the sciences. Are you one of those people wanting a better understanding of cyberinfrastructure? Come hear Lucille Nowell, NSF Office of Cyberinfrastructure explain the concept, the work and the future directions cyberinfrastructure may take information professionals. Speaker: Lucille Nowell, Program Director NSF Office of Cyberinfrastructure
Presented by: Engineering Division, Biomedical & Life Sciences Division

3:30PM-5:30PM
Cyberinfrastructure: Everything You Need to Know About Electronic Laboratory Notebooks
Electronic laboratory notebooks (ELNs) have been around for a number of year now - so why aren't more companies and universities using them? Explore the state-of-the-art of ELNs, lessons learned from a corporation who has implemented ELNs, and a very novel ELN application taking place at a university. .
Speakers: Carl Voigt, Eastman Chemical Company; Jean-Claude Bradley, PhD, Drexel University; Michael H. Elliott, Atrium Research
Presented by: Chemistry Division, Engineering Division, Food Agriculture & Nutrition Division, Physics-Astronomy-Mathematics Division

3:30PM-5:30PM
Science and Engineering Resources 101
This year in 101, get an overview of resources in aerospace and nanotechnology. Our experts will introduce the best tools to help you discover, obtain, and work with resources in these fields.
Speakers: James Manasco, University of Louisville, Mary Frances Lembo, Pacific Northwest National Lab
Presented by: Science-Technology Division, Engineering Division
Sponsored by: IEEE

9:00PM-12:00PM
Information Technology, Engineering, and Science-Technology Divisions Joint Open House
Another IT Division tradition, come hear two of Seattle's finest Sci/fi writers talk about their work. Greg Bear is a well-known "hard science fiction" author; he often addresses major questions in contemporary science and culture with fictional solutions. Donna Shirley was the manager of the Mars Exploration Program and the original leader of the team that built the Sojourner Rover. Together, they will discuss their books and answer your questions about how they view the science fiction world.
Speakers: Greg Bear, Donna Shirley
Presented by: Information Technology Division, Engineering Division, Science-Technology Division

TUESDAY JUNE 17, 2008
7:00AM-8:30AM
Aerospace Section Business Meeting and Breakfast
Ticked event # 710 Price USD15.00
Come have breakfast and network with colleagues while learning of the news of the Aerospace Section. In addition, the winner of the George Mandel Memorial Award will be announced.
Presented by: Aerospace Section, Engineering Division
Sponsored by: AIAA, Jane's Information Group

9:00AM-11:00AM
Cyberinfrastructure: Informatics Across the Biological Sciences
Scientists across a wide range of fields need to manage large quantities of data. This program will explore some of the projects and issues involved in informatics/bioinformatics and what librarians can offer.
Speakers: Dr. Quentin B. Wheeler, Vice President and Dean, Arizona State University; Neil Rambo,

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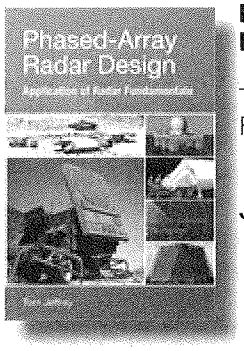

Phased-Array Radar Design

Tom Jeffrey—Raytheon

June 2008

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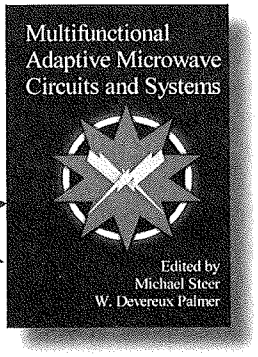
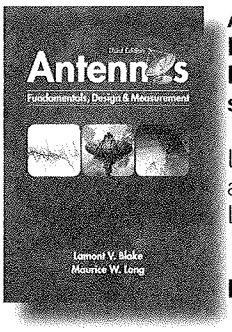


Multifunctional Adaptive Microwave Circuits System (MAMS)

Michael Steer and W. Devereux Palmer

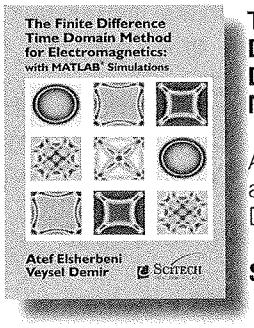
June 2008



Antennas: Fundamentals Design, Measurement, 3E

Lamont Blake and Maurice Long—GTRI

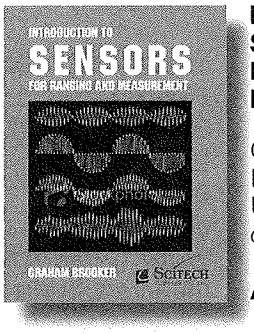
Dec. 2008



The Finite Difference Time Domain Method

Atef Elsherbeni and Veysel Demir

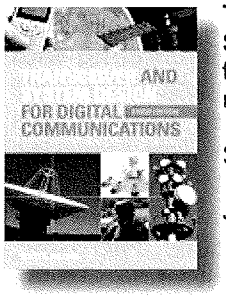
Sept. 2008



Introduction to Sensors for Ranging and Measurement

Graham Brooker—University of Sydney

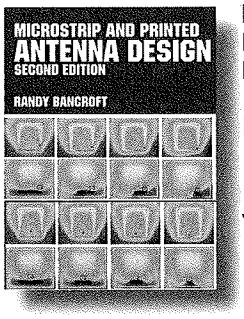
Aug. 2008



Transceiver and System Design for Digital Communications, 3E

Scott Bullock

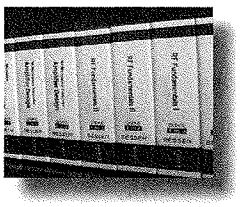
July 2008



Microstrip and Printed Antenna Design, 2E

Randy Bancroft

June 2008



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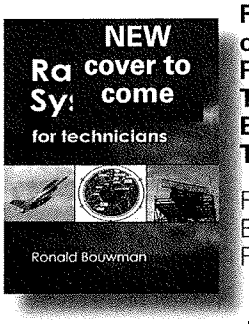
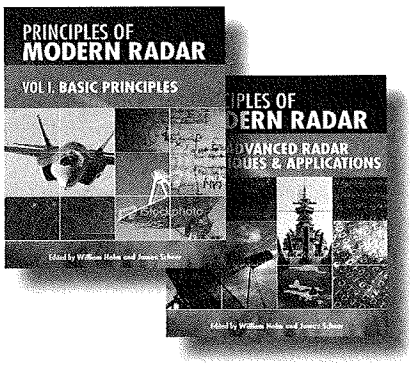


Fundamentals of Ground Radar: for Air Traffic Control Engineers and Technicians

Ronald Bouwman—FAA

June 2008



Principles of Modern Radar—2 Volume Set

Mark Richards, James Scheer, and William Holm (Editors)—Georgia Tech, Distance Learning and Professional Education and GTRI

Volume I—Basic Principles
Nov. 2008

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Continued from page 12...

University of Washington Libraries; Catherine N. Norton, Director, MBL/WHOI Library; Dr. William Michener, University of New Mexico
Presented by: Biomedical & Life Sciences Division, Engineering Division, Knowledge Management Division, Physics-Astronomy-Mathematics Division, Pharmaceutical & Health Technology Division, Natural History Caucus
Sponsored by: Elsevier, Inc., IEEE

11:00AM-12:30PM
Computer Science Round Table
Join us to discuss issues in Computer Science Librarianship, and hear the results of the CS Survey.
Presented by: Science-Technology Division, Engineering Division, Information Technology Division, Physics-Astronomy-Mathematics Division
Sponsored by: ACM, IEEE

3:15PM-4:45PM
Sci-Tech and Engineering Contributed Papers Session
The Science and Technology and Engineering Divisions' annual contributed papers session with the theme: Connecting to Our Users in Sci-Tech and Engineering Libraries. Papers and authors include 1) 'Outreach to Scientists and Engineers at the Hanford Technical Library' Karen A. Buxton, Hanford Technical Library; 2) 'If The Library Brand is "Books," Why Not Read a Few? Bringing Narrative Nonfiction Book Discussion to the Special Library' Scott Curtis, Jenny Bruenger, Michelle Lahey and Eric Ward, Linda Hall Library; 3) 'Librarian in the Lobby - Connecting in Their Space' Lee A. Pedersen, Brown University
Presented by: Science-Technology Division, Engineering Division
Sponsored by: Elsevier, Inc., Knovel Corporation

7:00PM-9:00PM
All Sciences Poster Session & Reception
The All-Sciences Poster Session & Reception highlights multiple themes representing innovation, creativity, and change, with sponsorship of five science divisions. Join your colleagues for food, drink, networking and learn new ideas to take back to your library
Presented by: Science-Technology Division, Engineering Division, Biomedical & Life Science Division, Chemistry Division, Physics-Astronomy-Mathematics Division
Sponsored by: ASME, H.W. Wilson, IET/Inspec, Knovel, SPIE, Springer

WEDNESDAY JUNE 18, 2008
8:00AM-9:30AM
Aeronautics Then, Now and in the Future
Join us for an inspiring talk about the history and the future of aeronautics. How has the past inspired the future, and where are we going next? We will be looking at the evolution of aeronautical technology development and design and speculate on how this evolution will influence future aeronautical design.
Speaker: Michael N. Garrett, Director, Airplane Performance, Boeing Commercial Airplanes
Presented by: Aerospace Section, Engineering Division
Sponsored by: Linda Hall Library

12:15PM-1:45PM
Cyberinfrastructure: Breaking Rules, Building Bridges for Both Corporate and Academic Librarians
Researchers and educators are starting to collaborate globally as a result of the evolving Web. Cyberinfrastructure is facilitating these global multi-disciplinary and collaborative efforts. Scientists and engineers are collaborating with computer scientists and the IT industry to create this cyberinfrastructure. A key part of this cyberinfrastructure will also be services accessing digital repositories containing both scientific data and full-text publications. Speakers: Lee Dirks, Director, Scholarly Communications, Microsoft; James L. Mullins, Dean of Libraries & Professor, Purdue University
Presented by: Engineering Division, Information Technology Division
Sponsored by: IEEE

THURSDAY JUNE 19, 2008
8:30AM-1:30PM (Bus leaves at 9:00am)
Aviation Tour
Reservations Required. Price USD 47.00
William Edward Boeing founded one of the greatest dynasties in commercial aviation in the Pacific Northwest. Come join us on a tour of the Museum of Flight Restoration Center, the Boeing Assembly Plant and Future of Flight Aviation Center. We will be exploring the past, present and future of aviation in one tour. Guests need to be at least 48" tall. For security reasons all personal items must be left on the motor coach. See http://www.futureofflight.org/index.html for additional details.
Presented by: Engineering Division, Aerospace Section❖

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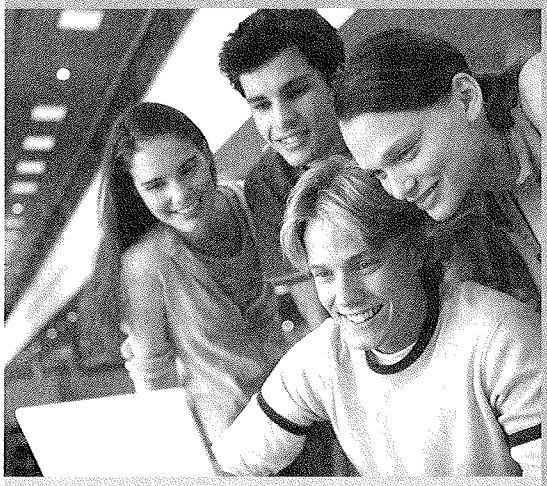

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