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Official Publication of the Chicago Section • Institute of Electrical & Electronics Engineers • APRIL 1992



TIME SENSITIVE MATERIAL

CALENDAR OF EVENTS

For reservations please call IEEE Office at (708) 963-3828 before the stated deadline
Copy Deadline for May SCANFAX is March 25, 1992

April 1 Wednesday	Program Committee	Management of Programmable Device Programs	Hewlett-Packard Co. 1200 E. Diehl Road Naperville, Il.	Call Sandi Gibson (708)505-8820 ext.2210
April 2 Thursday	Northwest Subsection/ IAS	Building Lighting Controls	Merchandise Mart Conference Center Chicago, Il.	Social: 5:30 PM Meeting: 6:00 PM Exhibits: 7:00 PM
April 8 Wednesday	Power Engineering Society	Geomagnetic Disturbances Effects on Power Systems	Chicago Bar Association 321 S. Plymouth Court Chicago, Il.	Social: 11:30 AM Lunch: 12:00 noon Meeting: 12:30 PM
April 14 Tuesday	Chicago Section	Executive Committee	Contemporary Controls 2500 Wisconsin Downers Grove, Il.	Meeting: 7:15 PM
April 28 Tuesday	Fox Valley Subsection Engineers in Medical/ Biology	Extracorporeal Shock Wave Lithotripter System	Wilton Manor 2200 Main Street Wheaton, Il.	Social: 6:00 PM Dinner: 7:00 PM Meeting: 8:00 PM
April 30 Thursday	IEEE Videoconference	Workstations of the Future A User's Perspective	College of DuPage 22 & Lambert Rd. Glen Ellyn, Il.	Presentation: 11:00 AM Registration at (708)858-7128
May 2 Saturday	Chicago Section	IEEE Recognition Dinner	Woodfield Hilton & Towers 3400 W. Euclid Av. Arlington Heights, Il.	Social: 6:00 PM Dinner: 7:00 PM
May 7&8 Thursday & Friday	Chicago Section/ Engineering Management	Project Management Conference/Symposium MANAGING CHANGE '92	Drake Hotel 140 E. Walton Chicago, Il.	Call for Details (708)963-4002

IEEE Video Teleconferencing Service

Workstations of the Future: A User's Perspective — April 30

How will the dramatic advances in hardware and software — including speech capability, multi-media and natural language — affect the user? This videoconference will address the transition from a work environment of stand-alone users with PCs to one of collaborative workgroups that need networked systems with more computational power and high I/O rates for video and image capabilities.

8:30 am, Monday: You walk into your office, say "agenda" and your workstation monitor lists your day's meetings — input a day earlier. You order your workstation to dial your manager's office in Cincinnati. The connection is made and your manager's image appears in a window of your computer screen as you read his memo in another window on the same monitor. You suggest edits, your boss agrees to them, and as you make the changes, they appear in real-time on your boss' computer, located some 1,200 miles away. With another click of your mouse, the now completed memo disappears from your screen and is electronically whisked away to your customer's site in Japan.

This multi-media example is one of many new applications. Workstations of the Future is critical viewing for the designer and manufacturer who must remain competitive in this rapidly evolving industry.

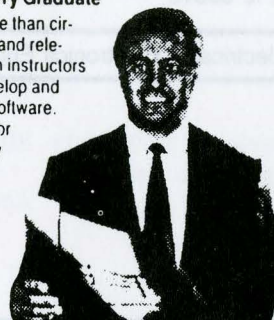
Lead Presenter: Gary B. Eichhorn, General Manager, Workstation Business Unit, Hewlett-Packard Co, Chelmsford, MA

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SCANFAX DEADLINES

ISSUE	COPY DUE	MAILED ON
MAY	MAR 25	APR 15
JUNE	APR 28	MAY 15

THESE ARE FIRM DEADLINES FOR ADS AND COPY!!!

STUDENT ACTIVITIES

I would like to introduce Janine R. Moederndorfer as our Outreach Programs Director. Janine will be coordinating the Girl Scout Mentor Program which is conducted in cooperation with the SciTech Museum in Aurora. We would like to encourage our female engineers to participate in this exciting and rewarding program. If interested call Janine at Commonwealth Edison 312 294-2782.

VOLUNTEERS NEEDED!!!

Once again we are asking for your assistance with one of our many programs.

We are planning other Career Workshops and invite all of our members to participate.

We are implementing a new program to assist students in obtaining internships or summer employment. If you would like information or would like to offer assistance, please call.

We are always looking for engineers to join our Speaker's Bureau and present the Discover E program to area schools.

If you would like to offer assistance, please call. Your support is greatly appreciated.

Mary S. Hart
Student Activities
312 294-7784

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James Carroll, Editor
Room 2H 205
AT&T Bell Labs
2000 N. Naperville Rd.
Naperville, IL 60566
(708) 979-8820 FAX (708) 979-8823

Bob Hofmann, Assoc. Editor
(708) 979-3627

Joe Feitler, Assistant Editor
(708) 505-9100 Ext. 277

Steven Hofmann, Copy Editor
(708) 979-4247

Ed Barrett, Advertising Director
171 Warwick Drive
Glendale Heights, IL 60139
(708) 773-4864

Change of Address

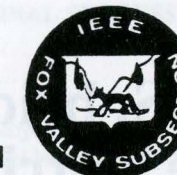
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THE INSTITUTE OF
ELECTRICAL AND
ELECTRONICS
ENGINEERS, INC.

FOX VALLEY SUBSECTION

and ENGINEERS IN MEDICINE/BIOLOGY



TOPIC: Extracorporeal Shock Wave Lithotripter System

DATE: Tuesday, April 28, 1992

SPEAKER: Scott Gilchrist
Northgate Research

PLACE: Wilton Manor, 2200 N. Main St., Wheaton, IL 60187

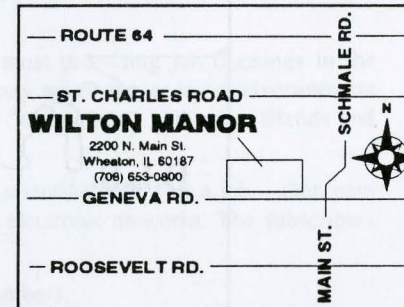
TIME/COST: Social: 6:00 p.m. Cash Bar
Dinner: 7:00 p.m. \$13.00
Students with ID: \$11.00
Speaker: 8:00 p.m. Free*

RESERVATIONS: Call (708) 963-3828 to make reservations for Dinner and/or Meeting, by Friday, April 24, 1992. Casual attire appropriate, as always.

ABSTRACT: The Northgate Research Lithotripter is a medical device designed to disintegrate renal calculi (kidney stones) within a patient by delivering concentrated electro-hydraulic shock waves to the stones from outside the patient. The system integrates many electrical technologies including computer control, motion control and high voltage energy generation. The system is currently in clinical trials in the United States.

ABOUT OUR SPEAKER: Mr. Gilchrist is the product manager for Northgate Research's Lithotripter System. He has been at Northgate for four years. Mr. Gilchrist holds a B.S. degree in Physics from Western Illinois University.

*While the meeting is free, recognize that the room is subsidized by the cost of the dinners. Attending the dinner helps support our continued offering of interesting meetings.



NORTHWEST SUBSECTION

INDUSTRIAL APPLICATIONS SOCIETY

JOINT MEETING WITH ILLUMINATING ENGINEERING SOCIETY

BUILDING LIGHTING CONTROLS

On Thursday, April 2, 1992 NWSS and IAS will hold a joint meeting at the Merchandise Mart, Conference Center.

The topic will be the control of building lighting. Speakers from Lutron, Honeywell, and GE will discuss their techniques to control building lighting. The presentations are expected to run for about one hour. The manufacturers will have exhibits at the tables to demonstrate their products before and after the presentations.

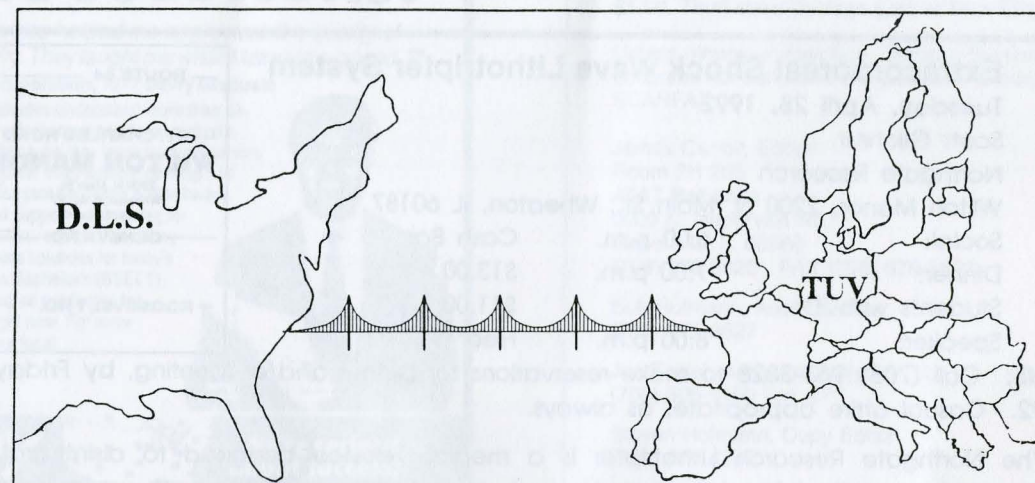
Time: 5:30 - 6:00 pm Social: cash bar.
6:00 - 7:00 Presentation
7:00 - 7:30 Exhibits

Place: Merchandise Mart, Chicago, Conference Center

Date: April 2, 1992

Call: (708) 963 3828 for reservations

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Most of us have learned about *networking* for a variety of reasons:

- to get ahead in school and in our professional careers,
- to search for a new position if we find ourselves unemployed or underemployed,
- to discover a prospective client/sponsor in need of our particular professional background,
- to do the necessary research for retrieving some relevant technical papers of current technical interest, etc.

As part of this process we have learned many valuable techniques, but nowadays it has become progressively more important to systematize these search techniques, as well as select the most appropriate methods for your personal needs. Here are some examples of techniques available to our IEEE members:

- One excellent book on job search techniques defines this strategy as finding your most promising job openings in the "hidden job market." They are the ones known only to the company's insiders and may never appear in an advertisement in a local newspaper or in a professional journal. And you can find them only by "networking" with your friends and peers.
- When you have to find some pertinent technical references or experts in a particular scientific field - or a job - then plan to review the "electronic netnews groups" by signing into one of several world-wide electronic networks. The subscribers to their carefully classified "newsgroups" include

IEEE Headquarters and many of its members, national officers and committee members, a large number of universities and colleges, certain U.S. and foreign government agencies and laboratories, numerous large and small companies, and thousands of individuals in the US and world-wide.

They exchange information quite freely, provide answers to tricky questions when they feel sufficiently expert, announce professional meetings, invite people to submit technical papers for conferences and IEEE Transactions, as well as post "job opening" announcements or their personal resumes.

- You can attend the technical meetings sponsored by IEEE's Chicago Section and its Subsections/Chapters. Probably you should use the old-fashioned techniques of "come early, stay late, vote regularly, introduce yourself to other attendees, and meet as many people as feasible without being discourteous." And remember that your personal and professional friends may also open doors for you when approached properly.
- You should plan your search strategy systematically ahead of time by defining your personal areas of interest and competence, in order to avoid fumbling clumsily while "opening your personal door to opportunity." For example, be sure to have an excellent resume in your possession to *sell yourself* to a prospective employer; otherwise, an equally qualified applicant may get this job instead of you due to a superior *personal marketing approach*.
- When attending a professional meeting, be sure to recognize the opportunity for spotting a new potential client/customer for your business; your company, this prospect, and you may all benefit both professionally and personally from forging this new business tie.

As you mature in your career which started during your school years, learn to master the skills of *networking*. They comprise the most essential part of your interpersonal relationship skill inventory when dealing with your peer group and work environment.

Your comments are solicited.

Joe Feitler - Chairman of the Professional Management/Engineering Communications Chicago Chapter
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The revolution is happening now at Motorola's Land Mobile Products Sector. This is your opportunity to become a key member of a first class team that will define requirements, architect and design the next generation of digital wireless communications systems. Utilizing advanced digital technology, this system will integrate dispatch land-mobile communications, paging, telephony and data services, from a singular subscriber unit. Senior positions are now available for Telecommunications engineering experts in the following areas:

RF BASE STATION CONTROL Systems Engineering

High level design, definition and development for the base station control system. Requires a strong background in cell site architecture, system and software design for wireless communications systems. MSCE or equivalent plus at least 8 years experience required.

SWITCHING SYSTEMS ENGINEERING

Define and architect the switching infrastructure. Requires a strong background in telephone switching systems, signaling systems no. 7, extensive data communications protocols, wireless communication systems, modeling and simulation techniques, etc. MSCS/MSCE or equivalent plus at least 8 years experience required.

NETWORK MANAGEMENT Systems Engineering

Define, architect and develop a state-of-the-art wireless network management system. Requires a strong background in the design of Operations & Management Networks, with a strong working knowledge of the network management aspects of ISO reference model. MSCS/MSCE or equivalent plus at least 8 years experience required.

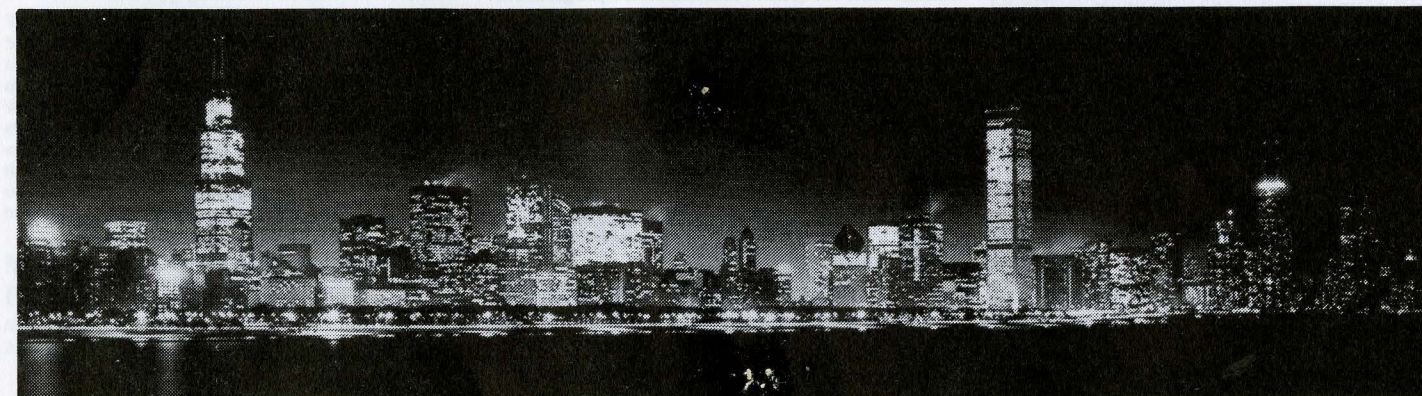
If you would like to be a major contributor to this new and exciting development team with the world leader of wireless communications, Motorola would like to hear from you. Send your resume, in confidence, to: **Manager of Professional Recruiting, Dept. #9206, MOTOROLA INC., Land Mobile Products Sector, 1301 E. Algonquin Road, Schaumburg, IL 60196.** An Equal Opportunity/Affirmative Action Employer.



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- Managing Information
- Government Business
- Tools for Project Management



Keynote Speaker

Herb Cohen

- International consultant on negotiating strategies
- New York Times Best Seller List author of "You Can Negotiate Anything"
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KEYNOTE SPEAKER

Herb Cohen

During the past three decades, Herb Cohen has been a practicing negotiator, intimately involved in some of the world's headline dramas, from hostile takeovers to hostage negoations. His clients have included business executives, entrepreneurs, sports, and large corporations. as well as government agencies. As a result of his unique but extensive practical experiences, Mr Cohen is internationally renowned as a corporate and governmental consultant on negotiating strategy, commercial dealing and crisis management. He is the author of YOU CAN NEGOTIATE ANYTHING and has been a guest on the Tonight Show, Good Morning America, and Nightline.

DELAY, DISRUPTION, AND CHANGE

*This **Track** address issues involved with the constant forces of delay, disruption, and change on projects.*

Managing Planned Project Change

Mark Beyer

This session is a review and examination of how a project organization adapts to and manages change during its traditional life cycle. Forces which cause change and how a project organization can anticipate and successfully plan and adjust to meet goals are discussed.

Initiating Changes to Compete with a Monopoly Institution

Richard A. Kozak

Since the formation of Metropolitan Fiber Systems, Inc. in 1988, MFS has expanded its service to 12 major metropolitan areas across the U.S. by successfully initiating regulatory change, developing superior customer service standards and introducing new technologies. This session will emphasize the role of the project managers in achieving these excellent results and the strategies used by management.

Strategic Alliances

Robert J. Vande Walle

In companies, the Total Quality Management process results in "partnerships" with suppliers who provide services in areas that are not part of the core competencies of that corporation. Mr. Vande Walle will discuss the nature of partnerships and suggest ways to develop those partnerships with suppliers and describe some of the advantages and disadvantages of those partnerships.

Managing Conflict

Forrest Buchtel

This session analyzes conflict management styles using examples of two projects: Thunderbolt, a Star Wars project and a Blood, Sweat, & Tears concert tour. Although the two projects definitely march to the beat of different drummers, the methods for the project manager to keep things running smoothly are much the same. Techniques discussed range from salesmanship to synergism.

Resistance to Change

Clive Hazell, PhD

In this session, participants will learn how to identify key resistances to change, especially those that often go unnoticed. Techniques for effectively managing change and for releasing and harnessing energies tied up in the resistance will also be covered.

Achieving Time to Market Advantage in the Computer Industry

Kevin Mulroy

As a result of a highly competitive environment, first to market is the primary driver in the computer industry. First to market means increased margins, image, loyalty, and market share. The question becomes, how do you get to market first without reducing quality and needed features? Obviously, that is an easy statement to make, but how can you accomplish that in a development environment? This presentation will focus on the Zenith Data Systems strategy to change and the role of Program Management in that evolution.

EDUCATION - CERTIFICATION

*This **Track** is for:*

- *Individuals who want to learn about Project Management, and*
- *Individuals planning to take the Project Management Professional (PMP) exam June 27, 1992 in the Chicago area.*

Each speaker is a certified PMP, an acknowledged expert, or specialist in the topic. The sessions cover the eight areas of the Project Management Book of Knowledge (PMBOK), the "Bible" of project management. Review materials are provided for study after the Symposium.

Exam Overview

Wayne D. Miller & Ronald P. E. Waller

This session is designed to assist the participant in understanding the requirements to apply to sit for the PMP exam. The Project Management Body Of Knowledge (PMBOK) and its framework are explained. Preparation for the exam and exam strategies are discussed.

Contract/Procurement

Beth Partleton

Contracting is a process that involves two parties with different objectives that interact in a given market segment. This session will address basic market concerns, general variables, external information, special considerations, contract types, and contract administration.

Quality Management

Jeffrey S. Leavitt

Quality Management covers a wide variety of concepts and tools which are essential in managing projects. We will briefly examine some of the basic subjects such as the definition of quality as well as some of the more complex areas, for example SPC.

Scope Management

Lowell S. Skelton

This session discusses the function of controlling a project in terms of its objectives through the concept, development, implementation and termination phases.

Risk Management

Ronald P. E. Waller

Managing projects requires the ability to manage risk. The goal is to provide the attendee with an understanding of the concept of risk, a review of probability/distribution fundamentals, a detailed review of risk management methods, and to provide an approach for application by the practitioner.

Time Management

Larry E. Teunissen

This session is intended to give a broad review of the subject of time Management as required by a project manager in performing his duties. Project phases, project work breakdown structure and scheduling approaches will be discussed. Managing options relating to time management of a project will be reviewed.

Communications Management

John W. Pearson

Through understanding, controlling, and applying the communication processes, from sending skills and the art of listening to the information gathering and processing , the manager can improve the project's efficiency and effectiveness. This program addresses each of the fundamental aspects of this important topic providing skills that can be immediately applied to enhance results while preparing the foundation for PMP certification.

Cost Management

Randall L. Wodrich

This session will include discussion of cost estimating and forecasting, cost budgeting, cost control, and cost applications.

Human Resource Management

Gregory F. Ward

Attendees to the workshop will be given core information to pass the Human Resources Management section of the PMP exam. Topics covered include organizational structures, interfacing with people and non-people constraints, leadership and motivational behaviors, and the roles of the project manager and project team.

GLOBAL PROJECTS

*This **Track** focus on the unique aspects of project management in the international arena. The project manager needs to maintain a global perspective to effectively monitor and control these projects.*

A Case Study — Emerging Hazardous Waste Management in Czechoslovakia

John T Fleissner

Czechoslovakia is struggling to change international environmental policies that have been in place for decades. The Chabarovice hazardous waste site case illustrates the new technical, financial, and political challenges facing new republics. Issues raised by the Chabarovice site are similar to those at many Superfund sites in the U.S., but they are new to the young Czech Ministry of Environment. This program will discuss a feasibility study of remedial actions applicable to the Chabarovice site and highlight the decisions facing the Czech authorities.

Project Management in the Former Soviet Union

Yash P. Wadhwa

In the summer of 1990 a troop of PMI engineers and their

families toured the former Soviet Union. They visited factories, museums, and other points of interest. During their stay, they had plenty of time to discuss project management with their Soviet hosts. The Soviets made contacts with Americans, whom the Soviets hoped could help them develop the market economy promised by Gorbachev.

This session will discuss the shortfall in Soviet project management style. These deficiencies became even more evident during the following year when some of the Soviets visited their American guests to gain first hand experience in a free market economy. The problems are now multiplied by the unbundling of the Empire.

Surviving and Thriving in a Changing World

Susan A. Stephani

The world is undergoing massive change. American business is changing. It is changing partially in response to the changes in the world. All of this affects your job and you. The people that will survive and thrive in business will be those who know how to handle the stress of a quickly changing business scene. Managing international projects is exciting and stressful. In this session, you will learn how the competent "coper" and hardy personalities deal successfully with stress and change. And, you'll learn how you can do it too.

Maintaining the Global Market Perspective

Nick Whalen

Abstract not available at time of printing.

GOVERNMENT BUSINESS

This Track presents differing perspectives on working on government and government regulated projects

The Milwaukee Water Pollution Abatement Program - A Step into the Unknown

Fred J. Meinholtz

The Milwaukee Metropolitan Sewerage District embarked on the \$2 billion Water Pollution Abatement Program in 1977 with a staff of several engineers and a consortium of consultants in an effort not experienced before. The adjustments by the District's policy board and its staff during the Program and beyond provide an interesting study in human adaptability.

Managing Uncertainty in Government Environmental Projects

Dr. Lorrie Ransome

Government environmental remediation programs involve contracting and management of large multi-disciplinary, multi-phase projects. Integration of project management systems approach to planning, organizational structures, staffing, schedule and cost negotiation and control, performance measurement, team building, and conflict resolution is vital to execution of successful government projects. Dr Ransome will share her experiences and strategies in navigating the dilemmas encountered through the life cycle of large government projects.

Nuclear Power Plant Management

Louis O. DeGeorge

Over the past ten years, Commonwealth Edison added 6,636 megawatts of nuclear electric generating capacity to its existing electric system. These projects employed over 70 million hours of craft labor and engineering support. Today , CE's nuclear system employs over 3,500 craft and engineering personnel annually to support the ongoing

capital projects. Effective project management was essential as this nuclear system was built, and will be the key to achieving excellence in future nuclear plant performance.

Working With Government - Some Tips to Help Your Project to Conclusion

Helen S. Cooke

Responding to changing government interests and requirements makes monitoring change almost a full time job. This session presents a few ideas on how to minimize disruption. It covers client relations with your organization, requests for proposal, internal government standards, sample pitfalls of certain types of contracts, and participative methods to get deliverables accepted. You may be asked to add some tips of your own.

City of Chicago Recycling

Myk Snider

This session will discuss the development of the MRRF system, developed for the City of Chicago. Recyclables and mixed wastes from 650,000 house holds will be processed though the system. These facilities will be guaranteed to recover at least 25% of the waste delivered to them from the City's co-collection program.

Eliminating the Gridlock Grip

Kenneth L. Desmaretz, P.E.

Abstract not available at time of printing.

Airport Expansion: Doing Business for the FAA

B. Wayne Simmons, P.E.

Abstract not available at time of printing.

MANAGING INFORMATION

*This **Track** focuses on the various aspects of information from the management of information resources to the utilization of information processing methods.*

A Structured Approach to Critical Path Analysis

Skip Gwyer

In the personal computer industry, where time to market is critical, and fast track programs are a way of life, it is necessary to analyze and optimize project progress constantly. In order to achieve timely project completion objectives, project/program managers must monitor and manage critical path(s). It is not simply a matter of minimizing the impact of a single critical path item in a program, but a comprehensive study of actions/reactions that result from critical path "what if" scenarios. The end result of this analysis is a proactive plan to minimize the impacts of two or more possible critical paths.

Integrating New Technology into Your Organization

Stevan Ranney

Most organizations fall into the trap of using new technology to replicate existing processes. However, service and operating cost breakthroughs occur when business processes are re-engineered. Mr. Ranney presents an approach to help your organization evaluate and take advantage of new technology.

The Importance of Having Performance as a Software Design Goal

Eugene J. Scray III

Software performance is a strategic issue for making the enterprise more competitive and efficient. Performance has been bought through costly purchases of large computer systems. Alternatively, performance can be achieved with less cost and risk through building performance into the software design.

Organize or Agonize: How to cope with the continuing Information Explosion.

Ken W. Keller

The workplace has changed dramatically in the last 17 years. With the world-wide use of the computer and all of the related information sources and vehicles we are bombarded with massive amounts of information and non-information. This presentation will deal with ways to handle and manage this challenge while staying focused on one's priorities. The overall umbrella topic is "Time Management" related, however, we will focus on Priority Management as well as control and stress.

The Project Manager's Role in Expanding or Relocating a Corporate Data Center

Dennis L. Coates

This session will explore the eight steps a project manager should follow to ensure a successful project. Included are: selection of person for consultation and feasibility study, site selection, room selection, security, product availability, philosophy on growth and redundancy, selection of architects and engineers, and selection of a contractor.

Selecting Project Management Tools for use by Pharmaceutical R&D Function Managers

Wendy Schultz

Managing resources and activities within time is a similar concern for both Project Managers and Functional Mangers. For Functional Managers, the task is complicated by the degree of detail required, the complexity of dependent and parallel activity relationships, and the proximity of managing operations to real time events. This presentation outlines the course of that assessment and presents some considerations potentially useful to others in selecting a Project Management tool.

QUALITY AND RELIABILITY

*This **Track** address the various facets of quality.*

The Human Side of Quality

Gary Goldman, Lawrence Todryk & William Tuggle III

This, two session, experientially based learning workshop presents the key concepts and skills necessary for successful implementation of a total quality management process. Included process are evaluation, self-directed work teams, team building, directed work teams, purpose, vision, and creative learning environments.

The Change to Total Quality Management is Easy . . . or is it?

Jeffrey S. Leavitt

Many companies in today's business world have contemplated the implementation of Total Quality Management. Many have tried and failed. A few have succeeded. What can be done to make the implementation

permanent? This presentation addresses the issues of TQM implementation, and the use of project management principles and tools as the conduit for success.

Toward World Class Development: Benchmarking to Improve Project Management Capability

Allen Karsnia

In the business world, benchmarking is considered essential for a company to be recognized as a "world-class" competitor and is an integral part of the Baldrige Award assessment criteria. This session will define process benchmarking and the techniques that were used to identify "best-in-class" project management practices. Some specific recommendations resulting from this effort will be provided, along with an overview of the project management practices that have been implemented at ZDS.

Project Management for Quality Programs

Mary J. Breier

This presentation provides an overview of the project management efforts in the Quality Programs area at Tellabs. The key to achieving quality and implementing Total Quality Management is communication, which must take many different forms in quality program management. The audience in this communication effort is the customer, both internal and external to the organization. Quality programs at Tellabs range from participants and support of National Quality Month, to implementing problem-solving methodologies for manufacturing to submitting an application for the Malcolm Baldrige National Quality Award.

Stalking 6 Sigma

Bill Smith

Achieving world class quality is the result of a compelling vision implanted in the minds of the people by the leadership of the organization, establishing a uniform measurement of quality which is directly correlated to the attainment of that vision, setting a "reach out" goal for the improvement rate of that measurement, and training all people within the organization in the knowledge and skills necessary to achieve those aggressive goals. Motorola's compelling vision is "Total Customer Satisfaction". Its Six Sigma quality initiative ordains a common quality metric, and sets aggressive long range improvement rates.

PROJECT MANAGEMENT TOOLS

This **Track** contains information about software and education that will help the project manager succeed.

Organizational Development of Total Quality Using Project Management Methods

John M. Aaron, Ph.D.

Many U.S. firms are pursuing a philosophy of a Total Quality Management (TQM) as a vehicle to improve productivity and customer satisfaction. Frequently, however, organizations flounder in their attempts to deploy quality on an organization-wide scale. This presentation describes how project management can be used as an instrument to successfully deploy Total Quality throughout a company.

On Time Project Management

Tom Rogers

Lucas Management will be giving a presentation on implementing sound planning and control practices and procedures for software project management. Our proven methodologies will enable you to plan, track and complete your software development projects on time within budget. A product demonstration of Artemis Prestige for windows with timesheets module will accompany the presentation.

Team Building For Excellent Project Management

Vicky G. Martin, Ph. D & Barbara M. Fossum, Ph. D.

Excellent teamwork is an essential element in achieving high quality results when managing a project. The key elements for an excellent team building process will be examined. Tools and process strategies to implement on-going team building within a project team will be presented along with effective communication and leadership behaviors.

Change as a Consideration in the Span of a Project

Tim McHugh

Very often project managers will ask, " How can I reduce the risk on my projects, control costs and still be on time?". Mr. McHugh will discuss techniques to avoid those unsavory surprises. Often overlooked are the steps necessary for a thorough project management software selection evaluation process. The tool you selected may not properly cover the changing environment of the current project and may not be the one needed for project of a different type.

OTHER IMPORTANT FACTS:

- Special room rates are available at The Drake, just mention Project '92.
- On Thursday, the conference will run from 8:00 to 4:30 with a vendor sponsored cocktail hour to follow. On Friday, the conference will be 8:30 to 3:00.
- Call to find out about the social program for you and your spouses or friend.

REGISTRATION

NAME: TITLE:

COMPANY: PHONE: ()

ADDRESS: FAX: ()

CITY: STATE: ZIP: -

I plan to attend the following Education - Certification Track sessions checked below:

- | | | |
|--|--|---|
| ☐ All Sessions | ☐ Scope Management | ☐ Time Management |
| ☐ Cost Management | ☐ Quality Management | ☐ Risk Management |
| ☐ Human Resources | ☐ Procurement & Contracting | ☐ PMP Exam Preparation |

FEES include continental breakfasts, lunches, and breaks.

Symposium Registration Fee (If Paid before May 2, 1992) 275.00

Cost a the door will be \$325.00.

Reserve a \$45.00 Education/Certification Track Training Manual for me: .00

TOTAL: .00

Make Checks Payable to: PM'92 and mail to Project Management '92, 2460 Wisconsin Ave., Downers Grove, Il 60515 If there is a question call 708-963-3220 or FAX 708-963-2122.

The Chicago Section's Nominating Committee chaired by George Stout met in January to develop a slate of officers for the Executive Committee for the 1992-1993 term, starting July 1, 1992. The slate was discussed and approved at the February Section Executive Committee meeting; the list of names was published in the March SCANFAX.

Please mark your choice with an X in the underlined space; or, you can enter a write-in candidate's name and place an X to the left of such a candidate's name.

OFFICIAL BALLOT		
OFFICE	NAME	WRITE-IN
Chairman:	☐ Barry Brusso	☐
Vice-Chairman:	☐ Len Cohen	☐
Treasurer:	☐ Ed Capouch	☐
Secretary:	☐ Jeck Sherman	☐
Member Services:	☐ Mary Leatherman	☐
Publications:	☐ Jim Carroll	☐
Professional Activities:	☐ John Waters	☐
Conferences:	☐ Tom Monte	☐
Program:	☐ Bob Camillone	☐
Student Activities:	☐ Mary Hart	☐
Finance:	☐ Don Reynolds	☐
Special Events:	☐ Henry Korman	☐
Awards:	☐ Carl Kannewurf	☐

This is the official election ballot of the IEEE Chicago Section. The portion of the ballot containing your signature will be discarded before opening the ballot. No FAX versions or photocopies of this ballot will be accepted. Please tear out this page, mark your choices, sign where shown, fold on the dotted lines, affix a 29-cent stamp, and mail to:

IEEE ELECTION
c/o GEORGE STOUT
2014 HOPI LANE
MOUNT PROSPECT, IL 60056

THIS ADDRESS IS PREPRINTED ON THE REVERSE SIDE

THE SECTION MUST RECEIVE THIS BALLOT NO LATER THAN APRIL 24, 1992.

SIGNATURE IEEE MEMBER #

IEEE ELECTION
c/o GEORGE STOUT
2014 HOPI LANE
MOUNT PROSPECT, IL 60056

FOLD HERE

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IEEE

POWER ENGINEERING SOCIETY

- SPEAKER:** Mr. Joseph A. Pinnello
System Reliability Engineer
Commonwealth Edison Co.
- TOPIC:** Effects of Geomagnetic Disturbances on Power Systems
- ABSTRACT:** The current period of high solar activity has renewed interest in potential problems on electric power equipment and systems caused by geomagnetic disturbances. This presentation will review how geomagnetic disturbances affect power systems, some recent problems attributed to geomagnetic storms, and considerations being given to minimize the impact on power systems.
- BACKGROUND:** Joe Pinnello is presently on the staff of Commonwealth Edison's System Power Supply Office. He is responsible for overall coordination of the reliable operation of the bulk power system and emergency procedures. Joe has BSEE and MSEE degrees from Illinois Institute of Technology. He is a member of the IEEE and a registered professional engineer in the State of Illinois.
- PLACE:** Chicago Bar Association
321 S. Plymouth Court
- DATE:** April 8, 1992
- TIME:** 11:30 Social 12:00 Lunch 12:30 Presentation
- Reservations must be made by noon, Monday, April 6, 1992 by calling (708)963-3828. Please leave name(s) and company name.
Lunch is \$6.50.

IEEE Video Teleconferencing Service

Environmental Issues and Impact to Engineers — May 28

Health and environmental issues present some of the toughest challenges that electrical and electronics engineers will face in the near future. It is clear that solving these problems will require changing our day-to-day work procedures. Indeed, these solutions may lead to major changes in the way electronic engineering is practiced.

This videoconference will look at these changes — many of them controversial — in a lively yet practical way. We will focus on issues which need addressing early in the electronics design phase. It is critical that we shift our attention from chemical disposal to source minimization using recyclable, reclaimable materials and shift from using abatement systems to safe chemicals. We will address product design for disassembly, disposal and reclamation, and process design for source reduction and waste minimization.

All engineers will need to focus on health and environmental requirements as new processes are defined and new products are brought to market. A dynamic awareness is required as more knowledge of the environment is gained and put to use. The impact of environmental issues on your applications make this videoconference key viewing for electronics and electrical engineers worldwide.

Lead Presenter: Diana J. Bendz, Director of Safety, Chemical Management & Environmental Programs, IBM, Purchase, NY

IEEE CHICAGO SECTION – PLACEMENT SERVICE APPLICATION FORM

Prospective employers will receive the information on this form on request unless marked "CONFIDENTIAL" at the top of this form. Please notify us immediately if you accept employment to leave space for other search ads.

Each search ad will run in two consecutive monthly SCANFAX issues; find publication information on page 2 herein. The number of search ads per issue may be limited by space constraints.

(please print)

Name	IEEE No.	Expir. Date
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Instructions

To better serve our membership, each submission must be complete and adhere to the following:

1. Identify educational qualifications, position being sought, professional experience, and pertinent qualifications.
2. Use industry standard acronyms and abbreviations.
3. Limit your text to the 100 spaces provided.

[illegible]

The IEEE and its Chicago Section waive any responsibility in determining the credibility, accuracy, or qualifications of applicants or employers.

Mail to: IEEE Placement Service, c/o Robert A. Schrage, Commonwealth Edison Co., P.O. Box 767 - SEED 836E, Chicago, IL 60690

IEEE CHICAGO SECTION – SCANFAX PLACEMENT SERVICE

The Chicago Section provides a free placement service for its *unemployed* members of Member Grade or above. If you want additional information about the applicants listed below, contact our section's business office.

(If marked "confidential", our office will inform this applicant about the prospective employer's inquiry).

No.	Description
257	PHD EE - 15 years in semiconductors, fibers, coatings, electro-optics. Strong technical record in R&D.
258	BSEE - Electrical/Electronic engineering or technical position. Excellent analog and software skills.
259	BSEET - 2 years civil experience. Entry level power distribution design career opportunity.
260	MSEP - Real time systems, advanced automation, process control. Excellent track record.
261	PHD ME - 15 years experience. Seeks electronic packaging opportunity.
262	BS Engineering - Plant Manager. Can develop people/ organizations toward world class stature. SPC, QC Circles, JIT.
263	MSEE - 20 years experience. High Power Microwave, RF, Switching PS. Project & Department manager R&D. Small Company experience.
264	Seeks management/consulting position in a scientific/engineering computing environment.
265	BSEET - Technical instructor/writing with 8 years experience. Computer systems support, microprocessor assembly language.
266	MSEE - 33 years with design & development engineering/management experience. Robotics/automation. Spec., vehicles. Analog/digital. Programmable controls.
267	PHD Physics - 9 years experience III-V semiconductors. Seeks problem solving/development position.
268	BS - 20+ years experience as switch engineer. Documentation specialist - Mainframe, Midrange, PC.
269	BS Physics - 12 Years in R&D for Fiber Optic cable, components, & systems. Graduate courses in Fiber Optics.

"MANAGING CHANGE'92" Track Profiles

To complement "YOU CAN NEGOTIATE ANYTHING" by keynote speaker HERB COHEN, seven Topic Tracks encompass subjects applicable to many disciplines.

- MANAGING GOVERNMENT BUSINESS has 7 speakers anchored by Bill Smith (VP-Motorola) on Land Mobile Products and followed by Kenneth Desmaretz (ISTHA) on the Illinois Tollway Expansion.
 - QUALITY AND RELIABILITY features Mary Breier (Tellabs) on Quality Programs; The Baldrige and Allen Karnsia (Zenith) on Benchmarking Ups Capability.
 - MANAGING GLOBAL PROJECTS has Nick Whelan (International Marketing-Tellabs) on Communications Systems, Yash Wadhwa (Larson) on Soviet Influences in Project Management and four other speakers on EC topics.
 - EDUCATION/CERTIFICATION features nine speakers who will lecture on the topics to be covered in the Project Management Certification Exam to be held on June 27.
- (more in May SCANFAX)

Project Management Conference; May 7-8; Drake Hotel, Chicago, IL.
Sponsors: ASCE Illinois Section, IEEE Chicago Section and Project
Management Institute - Midwest Chapter. Project Management '92,
2460 Wisconsin Avenue, Downers Grove, IL 60515, (708) 963-4002.

Andy Peterson

Bob Camillone

ENGINEER'S WEEK ACTIVITIES AT IIT-WEST

The DuPage Area Engineer's Week Program of activities at IIT-West on Friday and Saturday, February 21 and 22, 1992, was highly successful! Approximately 600 students from area middle and junior high schools participated in Friday's events. And, reservations/attendance for Saturday's activities exceeded 900!

More than a dozen professional Engineering and Scientific Societies coordinated efforts to prepare an exciting program illustrating engineering diversity. The festivities included speakers, demonstrations, interactive presentations, exhibits, and student contests. Topics spanned the Eurotunnel Project, holograms, transportation, recycling, cryogenics, land management, and more!

Friday's **TEAM COMPETITION: BUILD A BRIDGE**, was sponsored by the IEEE/Chicago Section. Supplied with paper plates, plastic straws, sheets of paper, and tape, each team of approximately 4 students was to design and build a bridge model. While encouraging creativity and imagination, it stressed team work. As an educational activity, a prized benefit was the understanding that team work is essential in engineering and the work environment. And, it can be a fun, rewarding experience!

Approximately 150 mixed-school teams competed. Due to numbers, competitions were held on a per room basis. Thus, 29 winning bridges resulted. Needless to say, the competition was an overwhelming success! The response from participants and observers was tremendously positive!

Kudos to those who volunteered their services as competition judges and staffed the IEEE booth on Saturday!

Dorene L. Lehner

PLEASE POST — INVITE YOUR FRIENDS AND BUSINESS ASSOCIATES

IEEE RECOGNITION DINNER — 1992

DATE : SATURDAY, MAY 2, 1992
PLACE : WOODFIELD HILTON & TOWERS (LAKE MICHIGAN ROOM)
3400 W. EUCLID AVENUE, ARLINGTON HEIGHTS, IL
TIME : 6:00 PM — COCKTAILS & HORS D'OEUVRES
7:00 PM — DINNER, FOLLOWED BY PROGRAM
TICKETS: DONATION — \$30.00 PER PERSON

PRESENTATION OF AWARDS BY THE CHICAGO SECTION

1992 IEEE Fellow
1992 IEEE Fellow

Dr. Allbert H. Rubinstein (Northwestern University)
Dr. Der-Tsai Lee (Northwestern University)

Student Awards
Student Chapter Advisors

(names to be announced)
(names to be announced)

1992 Section Chairman's Awards

Andrew Corporation
Commonwealth Edison
Fluor-Daniel Inc.
S & C Electric
Tellabs Inc.

THE SOCIAL SCENE

ENTERTAINMENT John P. Hopkins — comedian, ventriloquist, magician, raconteur,
and your tour leader to an evening of fun and laughter

DANCING Frank "K" and Company
with tunes to put you in the mood for dancing

DINNER COMMITTEE MEMBERS:

Chairman	Henry Korman, Gentry Technologies
Vice Chairman	Frank Lakowski, United Chemi-Con
Secretary	James Barrett, McGregor, Inc.
Treasurer	John Waters, Waters Associates, Consultants
Arrangements	Gene Golemo, Motorola, Inc.
Tickets	Joseph Feitler, Interactive Systems Corporation
Entertainment	Ray Schulenberg, Motorola, Inc.
Solicitations	Sheldon Isenberg, Northrop DSD
	John Ellis, Motorola, Inc.

PLEASE ORDER YOUR TICKETS (at \$30 per person)

by mail — Joe Feitler, Box 5072, River Forest, IL 60305 (no later than April 25, 1992)
by phone — Joe Feitler at ISC: (708) 505-9100, x277 (no later than April 27, 1992)

Please tell us about your groups — We will have tables seating 10 people
You may request a fish or vegetarian dinner no later than April 27, 1992