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Engineering & Technology Management Group Newsletter

Editor: Jeff Schwartz *Fall 2000*

T&S Division Chair's Message

The Technology & Society Division will continue its focus on those challenges facing today's engineers in an ever expanding global market, in which fewer engineers spend their entire careers with one employer. Specifically, we are addressing issues involving technology transfer and strategic partnering, knowledge management, intellectual property and patent rights, and ethics.

Active participation in our division has continued to grow, as well as our budget. Standout members include Ken Horne, Susan Ipri-Brown, Jeff Schwartz, and Susie Tinker, who are taking on increasing responsibilities in various areas, including overseeing the creation of our own web site at www.asme.org/divisions/ts/.

We have planned an entertaining and educational set of sessions for the upcoming 2000 Congress in Orlando, Florida, as you will read in the following pages of this newsletter. We look forward to meeting with our members this November, and please do not hesitate to contact me at robert.burns @ finnegan.com about getting further involved with the T&S Division.

Robert Burns
Chair, T&S Division

SERAD Chair's Message

SERAD's main goal this year is to increase member participation, and we encourage the readers to respond. We are the leading ASME Division addressing safety-related engineering, research and development crossing engineering discipline boundaries. Interdisciplinary engineering is one of the major facets of ASME's new endeavors. We are seeking leaders with this interest. SERAD has a very successful mentoring program for young engineering talent and their advisers - the Student Safety Contest. Topics include safety and process control, government facilities, transportation, risk-based inspections, trans-

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E&TM Group Vice President and Division Chairs
{left to right: Robert Burns (T&S), Dave Pyatt (SERAD), Jeff Rode (E&TM Group VP), Steve Nichols (Management)}

Management Division Chair's Message

The Division received positive feedback from its members about the combined Engineering and Technology Management Group Newsletter. I want to start by thanking you, our members, for your comments. The Division exists to serve its members, and we need to hear from you to better serve you and the Society.

I am pleased to announce that Bob Simmons received the ASME International Dedicated Volunteer Service Award during the Management Division's Executive Committee meeting at the Summer Annual Meeting in Providence Rhode Island (June 4, 2000). Bob is a past Chair of the Management Division, and was recognized for his contributions to the Division and for his many other contributions to ASME. Bob received his award from Arnold Rothstein, outgoing Vice President of the Engineering & Technology Management Group (see photograph below). Bob Simmons currently represents the E&TM Group on the ASME Nominating Committee. In the past, Bob has been a strength of the Group and the Management Division assisting in the organization of the

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E&TM Group VP's Request for Feedback

We recently mailed out our inaugural combined E&TM Group Newsletter and I am now looking for your feedback regarding this innovative approach for ASME technical division Newsletters. Please send your comments to me (jrrnova@cs.com) or to ASME c/o Mr. Erwin Weinberg (weinberge@asme.org).

Another significant issue regarding the E&TM group relates to the recent recommendations made by ASME's Industry Advisory Board (IAB) from their meeting on "Engineering America's Future: Competitive Advantage Through Technological Innovation." The IAB made five recommendations to the Society which will be assigned to the various Councils to develop action plans to address them. They involve topics such as continuing education; convergence of engineering disciplines; collaboration among industry, academia, and government; small business innovation; and e-commerce strategies.

The three Technical Divisions in the E&TM Group are presently looking for more members to participate in a number of their ongoing programs and to provide ideas for new activities. I urge you to get involved with your fellow ASME members that share a common interest and it will be a rewarding experience.

I also encourage you to peruse this edition of the E&TM Newsletter to further explore the information regarding our symposium set for Congress 2000 in Orlando, Florida. Additional information may also be found at asme.org by going to the E&TM Group's exciting Homepage or any of the three division's sites.

Jeff Rode
V.P. E&TM Group

Trade Secrets and Proprietary Information: What Should Engineers Know?

Engineers in both academia and private industry carry with them valuable intellectual properties as they move among firms and educational institutions. These intellectual properties may include the contents of lecture/symposium notes, the contents of entire courses, knowledge of proprietary engineering practices ("trade secrets"), or even intellectual familiarity with innovative methods of internal business/university management. Commentators have identified a host of complex dilemmas for "high tech" communities regarding ownership of intellectual properties.

Universities, in particular, have just begun to grapple with several questions. First, who "owns" the contents of lectures, symposia, or courses — institutions or individuals? Second, do institutions have the right to share in any profits derived from lectures, symposia, or courses designed by their members? Finally, do members of institutions have any right to disseminate to the outside world "their" courses conducted at the institutions in the first place? See Alvin P. Sanoff, Whose property is it anyway?, PRISM, May-June 2000, at 19. Finding answers to these questions grips educational institutions in what has been described as a rare form of "culture shock." Id.

Private industries face problems regarding ownership of intellectual properties as well. As markets in the "high tech" fields grow increasingly competitive, the value of intangible intellectual properties ("trade secrets") increases exponentially. See Derek P. Martin, An Employer's Guide to Protecting Trade Secrets from Employee Misappropriation, 1993 B.Y.U.L. REV. 949, 949 (1993). Further, companies whose value and very existence depend upon the security of secret data- engineering firms, for example- must begin to undertake proactive legal steps to protect their proprietary industrial methods from potentially fatal misappropriation. Id. Misappropriation of trade secrets has historically cost U.S. businesses several billion dollars per year. See Michael J. Epstein & Stuart D. Levi, Protecting Trade Secret Information: A Plan for Proactive Strategy, 43 BUS. LAW. 887, 889 (1988).

Of what should engineering firms, engineers, and even universities become aware regarding the protection and dissemination of proprietary information? Highlights include the following:

- Uniform Trade Secrets Act (UTSA): This act provides remedies within state courts against misappropriation of secret data; the act has been adopted in some form by at least 35 states.
- Standard employment contracts: Such contracts can be drafted to govern the use of intellectual properties created "on the job"; they may also be drafted to provide remedies within state courts against proscribed dissemination of material(s) covered by their terms.
- Nondisclosure agreements: Such agreements are specialized private contracts between and among individuals and/or companies that govern the proper transfer of proprietary information; they are nearly always drafted to provide civil remedies against employees and others who break such contracts' covenants.
- Federal court actions: Such lawsuits may provide both monetary and injunctive relief for improper disclosure or marketing of intellectual properties created during a term of employment.

Whatever options are considered, proper legal guidance and advice are critical. In-house counsel remain key sources of such advice. Members of the patent bar or specialists in intellectual property law may also prove helpful in "wading through" these issues of great complexity.

Jeff E. Schwartz
(Jeff_Schwartz@mckennacuneo.com) and
Karen Borrelli
(Karen_Borrelli@mckennacuneo.com)
T&S Div.

Shifts in U.S. Patent Law: What Do They Hold for Engineers?

The so-called "new economy," based upon intangible ideas and services, has changed the way that all in the "high tech" sectors of engineering do business. Arguably, no changes ushered in by the "new economy" have proved more pronounced than recent modifications of patent law. All specialists in the technical fields- including mechanical engineers- must render themselves aware of these modifications as well as how these changes may affect protection of their intellectual properties.

The U.S. Court of Appeals for the Federal Circuit- effectively the "court of last resort" for patent matters took the lead in expanding patent law in its decision in State Street Bank & Trust Co. v. Signature Financial Group, Inc., 149 F.3d 1368 (Fed. Cir. 1998), cert. denied, 119 S. Ct. 851 (1999). The Federal Circuit, for the first time, recognized in State Street that business methods may receive protection under U.S. patent laws and procedures. The consequences have proved dramatic. The U.S. Patent & Trademark Office (PTO) reported an increase of approximately 700% in the number of patent applications containing business method claims. See Gregory J. Maier et al., Patent protection provides long-term Net strategy, NAT'L L.J., Oct. 18, 1999, at B11. In 1999, the PTO granted more than 300 patents containing such claims. Id.

Responding to public concerns that business method patents would have a stifling impact upon innovation and commercial competitiveness, Congress passed

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Shifts in U.S. Patent Law

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and President Clinton signed into law the American Inventors Protection Act of 1999. Part of the Act, now codified at 35 U.S.C. ß 273, established the so-called "business method defense." Such defense is available to an accused patent infringer that had been using the business method subject matter of another's patent for at least one year before the filing date of another's patent application and in a continuous commercial matter since before that date.

Considered together, the decision in State Street and the American Inventors Protection Act of 1999 raise new opportunities and new pitfalls for professionals in a variety of technical fields.

Engineers, for example, may now seize the opportunity to obtain patent protection for methods of obtaining commercially valuable results. Such methods might include the use of innovative algorithms to solve an engineering firm's human resource dilemmas, to organize and present engineering data to the lay public in more readily understandable terms, and / or to effectively market the products of technical firms. No longer will engineering entities (both profit and nonprofit) be forced to rely solely upon complex and expensive trade secrecy agreements to protect their internal business methods.

Procedures for obtaining patents and methods of patent enforcement remain alternately complex and arcane. In-house counsel should be helpful in dispensing proper intellectual property advice. Specialists in intellectual property law may also prove helpful in clarifying intricate patent matters.

Jeff E. Schwartz and
Karen Borrelli
T&S Div.

Engineers In Public Policy Committee (EPPC)

It is the beginning of the 21st Century: society is more complex, more technology driven than ever in the history of the planet. Public policy is dictated by a complex set of drivers, including national security, economic competitiveness, public safety and health, and education. Engineering technology and research is playing a growing role in the public policy debate that will determine our nation's quantitative and qualitative futures.

Less than one percent of all elected officials (i.e., federal, state, and local) are engineers. Of the 535 elected officials in the nation's Capital, only four hold a degree in Mechanical Engineering. Given those odds, how will scientific and engineering concepts be reflected in public policy outcomes?

Among its accomplishments to date, the EPPC has hosted two successful technical sessions at IMECE 1998 and 1999, both under the umbrella of the Technology and Society Division. The 1998 session focused on the broad concept of "The Role of Engineers in Shaping and Influencing the Policy Process," while last year's session was more narrowly crafted to address "State Technology Policies: How They Support or Hinder Innovation."

In 2000, the EPPC is looking to expand its activities by hosting two separate events. The Committee will host a session at the IMECE 2000 in Orlando; "Taking Engineering Education Beyond Traditional Boundaries through Public Policy Awareness," will be held on Monday, November 6th, from 3:45 PM until 5:15 PM. A diverse yet complimentary panel will discuss the implications of the following questions:

- Should engineering education include some aspect of public policy?
- If so, how can it be incorporated into an already overcrowded curriculum?
- Alternatively, should universities provide the means for non-engineering majors to gain an understanding of the engineering process?

The distinguished panel will include ASME member John Weese, current President of the American Society for Engineering Education (ASEE); ASME member Joseph Fowler, President of the Accreditation Board for Engineering and Technology (ABET); ASME member Juan Lucena, the 1999 Faculty Advisor to the Washington Internships for Students of Engineering (WISE) Program; and Margaret (Peggy) E. Layne, Past President of the Society of Women Engineers (SWE), 1998-99 Congressional Fellow, and member of the American Society of Civil Engineers (ASCE).

The EPPC will also be taking a lead role in the upcoming ASME Engineers' Public Policy Forum, scheduled for September 21-23, 2000, at the Doubletree Resort in San Diego, California.

By bringing together a cross-section of persons interested in the inter-relationship of engineering and public policy, the EPPC can make a difference. If you have an interest in public policy and engineering, you are encouraged to join the EPPC. For additional information on the EPPC, please contact Mary Legatski of the ASME Washington Center staff at 202.785.3756 or by e-mail at legatskim@asme.org.

Technology and Society Division (T&S) Sessions

Hiroshi Honda, Program Chair
Along with Sessions T&S-HT-1, E&TM-5B, E&TM-11B, E&TM-6B, which were introduced in the inaugural issue of this newsletter, Technology and Society Division will be presenting the following sessions and hosting a dinner reception jointly with Management Division at Congress 2000:

Keynote Lectures: Successfully Managing the Risk and Development of Your Business and Technology in the Global Economy, E&TM-4 Monday Morning

Chair: Richard Rosenberg (ASME Past President)
Co-Chair: John Paul (paulj@finnegan.com)

Dr. Winfred M. Phillips (ASME President (1988-89)) will give remarks on Emerging Engineering Paradigms, referring to some of the topics discussed at the preceding highlight session on New Paradigms for Manufacturing & Design. Dr. Hiroshi Honda will give a keynote speech on Successfully Managing the Risk and Development of Your Business and Technology in the Global Economy, referring to how the global and local economies affect managing the risk and development of your business and technology. This lecture is intended to set the scene and raise issues to be discussed for the entire E&TM Group symposium.

Trends and New Paradigms in the Information Technology Industry, E&TM-3 Sunday Afternoon

Chair: Wataru Nakayama (WatNAKAYAMA@aol.com)

Professor Shuichi Fukuda of Tokyo Metropolitan Institute of Technology will give a presentation on Team working in the 21st Century, comparing the U. S. and Japanese type approaches. David Copeland of Showa Aluminum Corporation will give a presentation on Trends and New Paradigms in the Electronics Cooling Market and Industry.

Current Trends, Outlook and New Paradigms in the Energy and Engineering Industry, E&TM-2 Sunday Afternoon

Chair: Hiroshi Honda (Hondah9876@aol.com)
Co-Chair: Edwin Harvego, Idaho National Engineering Laboratory

This panel discussion features a presentation by James Nordahl, President and C.E.O. of Siemens Power Corporation, on Current Trends, Outlook and New Paradigms in the Energy and Engineering Industry: From A Nuclear Power Per-

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Management Division Chair's Message

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ICEMs.* As a member of the Division Operating Board and then Chair, he helped rebuild the Division proposing many innovations including (along with Brigham Thomas) the new management PD course now underway.

I would like to take this opportunity to thank Arnold for his outstanding contributions to the Group and to the Management Division in particular. Good luck, Arnold. As incoming Vice President, Jeff Rode takes Arnold's place.

It is interesting to note the strong response to the article in the last newsletter titled, "Outsourcing: An Accelerating Global Trend in Engineering." The trend toward outsourcing has strong implications for the profession. I encourage you to help us examine these issues by submitting an article for the Newsletter and / or for publication in ASME proceedings.

Steven P. Nichols, P.E.,
Chair Management Division

*International Conference Engineering Management

Bob Simmons Receiving the Dedicated Service Award

{Left to Right: Arnold Rothstein (Past E&TM Group VP), Steve Nichols (Chair, Management Division), Bob Simmons (Management Division), Jeff Rode (E&TM Group VP)}

Technology and Society Division (T&S) Sessions

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spective, a presentation by Keith Thayer, ASME President (1997-98), on Oil, Gas and Engineering, a presentation on Coal and Engineering by Robert Murray, President, American Institute of Mining, Metallurgy and Petroleum Engineers and The American Coal Company and a presentation by Yogi Goswami, ASME Senior Vice President of Public Affairs, University of Florida, on Solar Energy and Engineering.

New Paradigms for Sustainable Society and Industries, E&TM-1 Sunday Afternoon

Chair: Shuichi Fukuda (Shu Fukuda@aol.com)
Co-Chair: Gilbert Hwang (Siemens Power Corporation)

Yasuo Hamada will give a presentation on For Sustainable Development of Society and Industries: Technology Conversation from One Way to Circulation. Wataru Nakayama of ThermTech International will give a presentation on Paradigm Shift in Engineering Design Precipitated by the Advent of Miniaturized Systems. Sriram Somasundaram, et al., of Pacific Northwest National Laboratory will give a presentation on Screening Analysis for EPACT-Covered Commercial HVAC and Water-Heating Equipment.

Toward Mutual Recognition of Educational and Professional Credentials in the Global Society, E&TM-11A Wednesday Morning

Chair: Dr. Hiroshi Honda, P.E. (Hondah9876@aol.com)
Co-Chair: TBD

Dr. Winfred M. Phillips of the University of Florida will give a presentation on Program Assessment: Equivalency and Credentials for the Global Marketplace and Dr. Hideo Ohashi, JSME Past President and President of Kogakuin University, will give a presentation on From Organization-based toward Individual-based Engineers — Current Reforms in Japan. The discussion will be focused on how the mutual recognition will be facilitated with the increasing human flows in the global society.

New Paradigms for Manufacturing and Design: Engineering Management's New Look at Technology Development HT-1 (Highlight Session) Monday Morning

Chair: Hiroshi Honda (Hondah9876@aol.com)
Co-Chair: Robert M. Kolosieke (Kolosirm@pweh.com)

Wataru Nakayama will give a talk on Paradigm Shift in Engineering Design; Robert M. Kolosieke, on Lean Manufacturing and Its Integration into Supply Chain; Professor Shuichi Fukuda, on Supply Chain Management; Professor Masafumi Katsuta of Waseda University, on New Paradigms Brought by Industry-Academia Collaboration; David Copeland, on New Paradigms in Electronics Cooling Engineering.

Dinner Reception in honor of Dr. John A. Brighton, University Professor and Former Executive Vice President and Provost of the Pennsylvania State University will be hosted on Tuesday Evening. Dr. Brighton will give a talk on "Systemic and Transformational Change in Universities."

SERAD Chair's Message

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portation, nuclear facilities, and industrial products.

Technical Advisers: SERAD has a current list of experts who are available electronically to provide information on a broad scale of interests. Please contact these advisers with your questions.

- Safety & Process Control Systems - Paris Stavrianidis / / Paraskevas.Stavrianidis@factory-mutual.com
- Government Facilities - Dave Pyatt / / david.pyatt@eh.doe.gov
- Nuclear Risk-Based Inspections & Testing - Ken Balkey / / Balkeykr@westinghouse.com
- Industrial Risk-Based Inspections - Dave Mauney / / dmauney@swri.edu
- Hazardous Materials Transport Safety - Lisa Bendixen / / bendixen.l@adlittle.com
- Passenger Transport Safety - Roger McCarthy / / sfrlm@exponent.com
- Nuclear Safety - Frank Elia / / frank.elia@stoneweb.com
- Human Factors - Joe Balkey / / JPBASB@aol.com
- Industrial Product Safety - Dennis Brickman / / brickman@triodyne.com

Student Safety Contest: This contest was established in 1984 and annually recognizes the best undergraduate and runner-up student papers to solve a specific safety problem. The award is a Certificate of Honorarium, plus travel expenses to attend the presentation ceremony at the Congress. Funding is provided by NIOSH and from industry. The latest awards were presented to (1998-99): L. Deville, R. Gibbons, D. McClintock, M. O. Laughlin, Runner-up: M. A. Franz

NASA's Role: NASA performs many complex and scientifically challenging programs, and we welcome its two sessions this upcoming Congress. NASA utilizes quantitative and qualitative risk methods to assure success of their projects. Its record is excellent overall. Few organizations have their relatively few failures so highly publicized and scrutinized by the public. We tend to forget that they are human, after all. We encourage all readers to attend these very interesting and informative sessions at the Congress. (Risk-Informed Decision Making in Aerospace & Allied Industries, SERAD-5 & SERAD-6). Contact Alexis / / Flippen@mail.arc.nasa.gov or Bob Navarro / / rnavarro@mail.arc.nasa.gov.

Dave Pyatt, SERAD Chair

A Series of Intellectual Property Sessions Sponsored by the Technology and Society Division to be Featured at Congress 2000

The Technology and Society Division will continue its efforts to educate ASME members on intellectual property issues at Congress 2000. Various intellectual property issues will be presented in three of the T&S Congress sessions. Please see the ad on page 6 for the Congress dates and locations.

Protecting Inventions with Patents, E&TM-11B
Wednesday, November 8th, 7:45-8:15 a.m.
Chair and Speaker: Jeff E. Schwartz

An interactive workshop-like session, entitled *Protecting Inventions with Patents,* focuses on the basic tenets of intellectual property protection (patents, trademarks, copyrights, and trade secrets), with an emphasis on the patenting process. The distinctions between the various forms of legal protection are considered and the pros and cons discussed. More specifically, in analyzing patents, the scope of protection is reviewed and attention is given to discussing the universe of subject matter that is protectable. The legal rights conferred and the ownership of those rights are also topics addressed. Also, insight into the limitations on the legal rights conferred by patents will be provided. Additionally, the process for obtaining a patent will be discussed and examples of various types of patents will be provided. Finally, this session will address the legal challenges and procedures available in federal courts and administrative agencies that deal with patent issues. Ultimately, participants in this session should come away with an appreciation for how to navigate the rough waters of the patent system and deal with either obtaining patents or making business decisions about the patents obtained and asserted by others. As part of this process, information regarding the areas of record keeping, invention disclosures, and licensing issues will also be presented.

Managing Technology Transfer and Technology Partnering, E&TM-5B
Monday, November 6th, 2:00-3:30 p.m.
Chair: John Paul (john.paul@finnegan.com)

One of the panel discussions, *Managing Technology Transfer and Technology Partnering,* will provide perspective views of speakers from various and diversified technology business settings who will share with the audience the various aspects of and respective approaches to technology transfer. Panelists will include the chief of the Technology Programs and Commercialization Office of NASA's Kennedy Space Center, a representative from Delphi Technologies, Inc., a newly formed intellectual property holding company for the General Motors spin-off company, Delphi Automotives Systems, a representative from the Patent and Licensing Exchange, a web-based intellectual property marketplace, and the executive director of the International Organization for Chemical Science in Development, an organization focused on the transfer of industry technology to developing nations. Topics of discussion will focus on the most recent issues and developments concerning technology transfer and technology partnering, including how to finance technology development, how to choose a technology partner, how to protect a technology partner relationship, and how to successfully conclude the relationship once the transfer has been completed.

Current Trends in Protecting Intellectual Property, E&TM-6B
Monday, November 6th, 3:45-5:15 p.m.
Chair: John Paul (john.paul@finnegan.com)

Panelists from industry and local businesses in the Orlando area will discuss their respective strategies and methods for protecting intellectual property, both during development stages and throughout commercial life. Panel members include in-house patent counsel from Walt Disney and Coca-Cola. Topics of discussion will include how to identify, select, and allocate resources for profitable technology, the pros and cons of keeping trade secrets vs. patenting, and strategies and objectives for successful marketing of the developed intellectual property. Perspective views from different sizes and types of technology-based companies will be presented, with the goal of showing how these companies ultimately turn their developed intellectual property into profitable, commercial products.

Safety Engineering and Risk Analysis Division (SERAD) Technical Program at IMECE-2000

Safety, risk, and reliability are key public issues, as seen in public reports about transportation accidents, accidental releases, national projects, and manufacturing improvements in reliability and safety. SERAD has developed six sessions that focus on new and evolving codes, standards, assessment or management methods as applied to industry. These six sessions are extremely diverse with nearly thirty peer-reviewed papers by international authors in industry, government, and academia. Please see the ad on page 6 for the Congress dates and locations.

SERAD-1, Risk & Reliability Issues at Federal Facilities
Chair: Mr. David Pyatt, Phone: (301) 903-5614, or e-mail: David. Pyatt@eh.doe.gov

Issues of risk and reliability will be discussed as they apply to rail transportation, inland navigational structures, technology programs, or operational activities at federal facilities, such as U.S. Department of Energy, U.S. Department of Defense, and other national-level organizations.

SERAD-2, Safety Through Design
Chair: Mr. Paris Stavrianidis, Phone: (781) 255-4983, or e-mail: paris.stavrianidis@fmglobal.com

Improvements in the mechanical safety of equipment can be manifested by inherently safer design, incorporation of design safeguards, or use of better design criteria. Cross industry risk assessment protocols, machine guarding, snow blower design, power transmission safety standards, and academic curriculum requirements are planned to be discussed in this session.

SERAD-3, Performance-Based Standards and Risk-Informed Approaches
Chair: Dr. Ben Ale, e-mail: ben.ale@rivm.nl

Performance-based regulations such as OSHA Process Safety Management, EPA Risk Management Program, or Seveso I & II, are driving changes in standards and the development of new approaches to risk and reliability problems or compliance. This session will present new approaches and developments to performance-based, risk-informed issues in the areas of allowable population densities around dangerous facilities, risk-based inspection guides and mechanical integrity approaches, and fire protection risk assessment at oil and petroleum facilities.

SERAD-4, Beyond Regulatory Compliance for Safety and Risk Engineering
Chair: Dr. Michael Stamatelatos, FAX: (301) 987-7355, or e-mail: mstamatelatos@prodigy.net

Merely meeting a standard or regulation's requirements (such as OSHA PSM, EPA RMP, or an international standard) may be the goal of some organizations. However, some establishments are beginning to go beyond what is required and this session will explore the purpose, motivation, or approaches for doing so which will include model uncertainty analysis, mechanical integrity, investment opportunity aspects of risk-based inspection, and engineering assessment approaches.

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Safety Engineering and Risk Analysis Division (SERAD) Technical Program at IMECE-2000

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SERAD-5, Risk-Informed Decision Making in Aerospace & Allied Industries, Part I of II
SERAD-6, Risk-Informed Decision Making in Aerospace & Allied Industries, Part II of II

Chairs: Part I: Mr. Robert Navarro, e-mail: rnavarro@mail.arc.nasa.gov
Part II: Ms. Alexis Flippen; Phone: (650) 504-4901, or e-mail: aflippen@mail.arc.nasa.gov

Leading issues and advances in risk analysis for space and aerospace risk and reliability are presented for NASA programs, missions, and complex high risk aerospace systems. Approaches, solutions, or success metrics to problems associated with observatories, NASA's "Better Faster Cheaper" space missions, the Space Station, extreme risk, test pilots, airport hazards, and risk and tort are planned for this special set of industry sessions.

If you have further interest in these Sessions, please contact the Session Chair or contact the SERAD Programming Coordinator: William Doerr, Factory Mutual Research, (781) 255-4986, or e-mail: william.doerr@fmglobal.com.

Book Review

Dr. Hiroshi Honda, Editor, Working in Japan: An Insider's Guide for Engineers and Scientists, **2nd Edition, ASME Press, New York, NY, June 2000**

A number of years ago, a company that I worked for had Japanese partners. My job included interfacing with their engineers and managers on the job and socially. Dr. Hiroshi Honda's 2nd edition of "Working in Japan" would have been an indispensable aide.

As I look back, I wish I had been able to even quickly scan Dr. Honda's well organized, detailed Table of Contents. It is a great checklist of what you would want to know about working with Japanese.

Dr. Honda's background, spanning several cultures, along with his many Japanese and non-Japanese contributors have put together a very useful guide to anyone with interest in professional Japan. His team of authors provides pertinent Japanese demographics including the size and future of that employment market. Extensive lists of job targets for the foreign-born are given with addresses and phone numbers in potential sectors of technical and scientific employment in Japan. You are introduced to non-Japanese who have worked there their entire careers as well as those who came on short term contracts, assignments or out-sourced tasks.

If you are wondering if Japan is a place for a career or a portion of one, Dr. Honda's book is a key jumping off place.

You will learn that ". . . all who come to Japan [should] master the Japanese language" and the authors are quick to point out that "the object is communication in Japanese, not perfection in Japanese." One of the Japanese contributors notes insightfully that "The Japanese see themselves as rather restrained and indirect, and Americans as unrestrained and direct . . . . Japan is a homogeneous, conservative society descended from an agricultural people . . . [while] most western nations are made up of descendants of hunting people." You even learn that in the Japanese work place "department members [as a team] . . . clean the office."

A foreigner working in Japan must conquer a mountain of obstacles but these authors say it is worth it and doable for those of us who have the interest, opportunity and these tools.

By: Arnold J. Rothstein
Past VP, E&TM Group

An engineer's guide to ... protecting and licensing valuable ideas...managing risk and reliability...attaining sustainable global competitiveness...and much more...

SUCCESSFULLY MANAGING THE RISK AND DEVELOPMENT OF YOUR BUSINESS AND TECHNOLOGY

A Symposium at the 2000 ASME International Mechanical Engineering Congress and Exposition
November 5-10, 2000, Walt Disney World Dolphin, Orlando, Florida

Sponsored by the ASME Engineering & Technology Management Group: Safety Engineering & Risk Analysis Division
Technology & Society Division, Management Division

You, as today's leaders, must stay abreast of the emerging issues that are refocusing the direction of every industry. In our fast-paced, technology-driven economy, it is impossible for you and your business to effectively compete and maximize profits without understanding how to manage issues such as intellectual property, agile manufacturing, resource sustainability, and risk-informed decision-making.

You are invited to join other practicing engineers, entrepreneurs, business leaders and managers to explore these new engineering, management, and technology concepts and their application in a variety of business and industry sectors. This symposium provides a broad understanding of these innovations, techniques to apply them in a safe, sustainable and successful manner, and opportunities to share experiences with colleagues. You will walk away with tools and techniques to achieve practical engineering and business results as well as with new and important professional contacts.

For a complete list of all sessions in the three division sponsored symposium, see our group web site (http://www.asme.org/groups/etmg/).
For more information contact Susan Ipri Brown at sibrown@asme.org.

Call for papers and session chairs

The 2001 ASME International Mechanical Engineering Congress and Exposition
New York, NY November 11-16, 2001

Global trends are forcing us to be flexible in our supply chain structure as well as be adaptable in the international marketplace. Technology leaders must also be increasingly aware of public policy, law and risk management issues. Next year's symposium will tackle these latest trends in management, business and risk analysis. Our goal is to attract a diverse industry and academic audience interested in networking and taking lessons learned back to the workplace. We want your input on what you want to see. Please submit initial abstracts and session descriptions by October 1, 2000 to Ken Horne at kphorne@ppco.com.