

9th ASSE-MEC Conference & Exhibition

CONFERENCE PROGRAM

"Global Look into Safety, Health and Environment"

AMERICAN SOCIETY OF SAFETY ENGINEERS - MIDDLE EAST CHAPTER

Under the patronage of
LT. GENERAL SHAIKH RASHID BIN ABDULLAH AL KHALIFA
MINISTER OF INTERIOR, KINGDOM OF BAHRAIN



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www.asse-mec.org



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Message From The ASSE-MEC President



On behalf of my colleagues in the American Society of Safety Engineers - Middle East Chapter (ASSE-MEC), I am delighted to extend an invitation to all safety, health and environmental (SH&E) professionals, and other professionals interested in these important fields, to attend this important event.

The 9th Professional Development Conference & Exhibition (PDC&E) will be held in the Kingdom of Bahrain, during the period February 20-24, 2010, at the Gulf International Convention & Exhibition Center located at the Gulf Hotel, with the theme:

“Global Look into Safety, Health and Environment.” Throughout the years, our conferences have become the premier SH&E professional development events in the Middle East. They feature the most extensive education and networking opportunities offered to the profession. Specifically, this conference offers a wealth of information and brings a wide variety of perspectives to our attendees through 60 specialized technical sessions and 18 pre-conference workshops. All of these educational activities present variety and depth addressing the key issues and challenges facing the SH&E profession and the skills and knowledge to deal with those

challenges. Attendees will enjoy the advantage of a wide range of networking opportunities that our 9th PDC&E has to offer. Those looking for a training program or new skills to protect people, property, and the environment can visit the exhibition hall. Our exhibitors will bring their insights and expertise to help provide solutions to the profession.

Our team has designed this event with participants in mind, ensuring this will be an unforgettable one.

My colleagues and I look forward to seeing you at the conference.

Tariq S. Al-Ghamdi
President, ASSE-MEC

Message From The Conference Director



provide and exchange information on anticipating, evaluating and controlling hazards in the workplace and increase awareness on promoting healthful and safe working conditions in the Gulf countries. International and local experts in safety, occupational health and environment will provide presentations on major and current issues.

The conference topics are designed to provide you with the knowledge and the tools you need to make your workplace and your employees safer. We have also invited suppliers of SH&E products and services to display and demonstrate their wares. The educational 2-day

pre-conference SH&E workshops, as well as presentation topics at a subsequent 3-day conference, will provide you with the most up-to-date information on key issues and challenges facing job site safety.

Thank you for your active participation in the 9th PDC&E. We are hopeful that when you leave, you take away information that will help secure a safe working environment.

The Conference Organizing Committee and I are looking forward to meeting you at the conference.

Abdulaziz M. Al-Ghamdi
Conference Director

About ASSE

Founded in 1911, the American Society of Safety Engineers is the world's oldest and largest professional safety organization. Its 33,000 members manage, supervise and consult on safety, health and environmental issues in industry, insurance, government and education. ASSE has 12 divisions and 148 chapters in the United States and abroad. For more information on ASSE, go to <http://www.asse.org>

Vision

The vision of ASSE is to be the premier organization and resource for those engaged in the practice of protecting people, property and the environment, and to lead the profession globally.

Mission

ASSE is a global association providing the professional development and representation for those engaged in the practice of safety, health and the environment and providing services to the private and public sectors to protect people, property and the environment.

Goals

1. Establish, promote and recognize standards of professional practice. Advocate positions on regulations and legislation.
2. Enhance and promote the ASSE image as the leader in the profession.
3. Establish and maintain an effective and efficient organization for the achievement of the Society's mission.
4. Develop and maintain mechanisms to recruit, retain and nurture the membership.
5. Deliver the highest quality professional development opportunities to enhance competence and to position practitioners for success
6. Gather, encourage and participate in development of the body of knowledge relevant to the profession.

About ASSE-MEC

The Middle East Chapter was inaugurated on September 15, 1982, in Dhahran, Saudi Arabia. The Chapter's territory covers the following countries: Saudi Arabia - Bahrain - Qatar - United Arab Emirates - Yemen and Oman. The Middle East Chapter was the first chapter established outside the United States. The current Chapter membership is approximately 260.

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Keynote Speakers

MINISTER OF
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KINGDOM OF
BAHRAIN



Dr. Majeed Bin Mohsen Al Alawi

Dr. Majeed Bin Mohsen Al Alawi, Minister of Labour, Kingdom of Bahrain has a PhD in International Relations/UK. He is a member of the International Institute for Strategic Studies. He is also author of the Gulf Cooperation Council, the Crises of Politics and Legitimacy 1986 and The Military History of the Middle East 1940 - 2000 - 2001. Dr. Al Alawi was a free lance writer in a number of daily newspapers: "Al Sharq Al Awsat" - London, "Al Hayat" - London, "Al Ayam" - Bahrain, "Al Khaleej" - UAE and others. Dr. Al Alawi worked previously in: Bapco, Batelco, Ministry of Labour and Social Affairs, and Ministry of Electricity and Water. He held the position of Assistant General-Secretary for the Bahrain Centre for Studies and Researches, 2001-2002 and Minister of Labor and Social Affairs Nov. 2002 - Jan. 2005. He is the Chairman of the Supreme Council for Vocational Training and Chairman of the Labor Market Regulatory Authority.

EXECUTIVE
VICE PRESIDENT,
CORPORATE
CONTROL-SABIC



Mr. Homood Abdullah Al-Tuwaijri

Executive Vice President, Corporate Control Saudi Basic Industries Corporation (SABIC)

In his current capacity as Executive Vice President of Corporate Control, Mr. Al-Tuwaijri is responsible for SABIC Global Governance and Compliance functions of Internal Audit, Environmental, Health, Safety & Security, Legal and Enterprise Risk Management. Before his present assignment, Mr. Al-Tuwaijri was Vice-President of Petrochemicals Coordination; and prior to that he was Vice-President of Corporate Finance.

Mr. Al-Tuwaijri graduated from the Georgia Institute of Technology with a master's in industrial engineering in 1983.

CHAIRMAN,
BRITISH SAFETY
COUNCIL BOARD
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Mrs. Nina Wrightson

Nina Wrightson is Chairman of the Trustees of the British Safety Council. Nina has undertaken a wide range of roles and responsibilities in Health, Safety and Risk Management over the course of her career including as a Regulator, Senior Manager in the private sector and Director of a major UK plc employing 23,000 staff. Previously Nina served as President of the Institution of Occupational Safety and Health (IOSH) and Chair of the Royal Society for Prevention of Accidents (ROSPA) National Health and Safety Committee.

Nina currently serves as a Non-Executive Director with the NHS Litigation Authority and the Yorkshire Ambulance NHS Trust.

Nina was awarded the OBE in 2005 for services to health and safety.

Keynote Speakers

Mohammad G. Al-Zahrani earned his Bachelors degree in Petroleum Engineering at the University of Louisiana at Lafayette In 1985. In 1997 he became Operation Superintendent in the Ras Tanura Producing Department. Between 2000 and 2005 he held a number of managerial positions in the Northern Area Oil Operations. In May 2006 he was appointed President and CEO of Saudi Aramco subsidiary Aramco Gulf Operations Co (AGOC) in Khafji. Mr. Al-Zahrani was named general manager of Drilling in September 2008 and more recently in May 2009 he was appointed as Executive Director, Safety & Industrial Security.



Mr. Mohammad G. Al-Zahrani

EXECUTIVE
DIRECTOR,
SAFETY &
INDUSTRIAL
SECURITY,
SAUDI ARAMCO

Chris Patton, CSP is the current American Society of Safety Engineers President. He is a Principal Safety, Health and Environmental Engineer for Covidien in St. Louis, Missouri. He provides corporate SH&E oversight and support for their Pharmaceutical and Respiratory divisions, including 16 manufacturing plants, 3 R&D Facilities, and 37 Nuclear Pharmacies. Patton has held SH&E positions in manufacturing, utilities, environmental remediation, and environmental regulatory agencies. He has been in the SH&E field for over sixteen years. Chris holds the Certified Safety Professional designation. Patton was twice awarded the Water Environment Federation Safety Award. He was honored with the Safety Professional of the Year award by his local ASSE chapter in 2004 and received the Charles V. Culbertson Award for outstanding volunteer service to ASSE in 2007.



Mr. C. Christopher Patton

PRESIDENT,
AMERICAN
SOCIETY OF
SAFETY
ENGINEERS

Dr. Leonard Yong (PhD; MEd; B.Sc; DAPA) is Senior Euromatech Consultant. He taught for more than 20 years in the University of Malaya before retiring as Professor in the Dept of Educational Psychology & Counselling. Professor Yong has extensive cross-cultural experience in consulting and research for agencies and companies in the Middle East, Japan, Australia, and the Asian region. His clients include Petronas, Maybank, Intel, Motorola, Malaysian Ministry of Health, Malaysian Ministry of Women, Family & Community Development, Saudi Arabia Government, Thai Reuters, Kuwait Petroleum Company and Oman PDO. Professor Yong has gained international recognition for his work on the creativity of Malaysians. He was awarded the 1992 Fulbright-ACLS/MACEE Award to undertake research on the creativity of Americans.



Dr. Leonard Yong

SENIOR
CONSULTANT,
EUROMATECH

Keynote Speakers



PRESIDENT,
THE BILL SIMS
COMPANY

Mr. Bill Sims

Mr. Sims attended The University of South Carolina. He is the President of the Bill Sims Company, Inc. For more than 40 years the Bill Sims Company has created behavior-based recognition programs that have helped large and small companies to inspire better, safer performance from their employees and increase profits. More than 1,000 firms have benefitted from consulting with Mr. Sims and he is currently writing a book based on these experiences. He receives requests globally to speak on the subject of human behavior change, garnering extremely high ratings as a keynote speaker in the U.S., Canada, Australia, South Africa, Greece, Bahrain and Saudi Arabia. In the past 12 months he has spoken at the Saudi Council of Engineers in Saudi Arabia, IOSH in Scotland, ASSE, RMA Rubber Manufacturing Association, and The WA Safety Conference in Canada.



SENIOR
CONSULTANT,
CORE MEDIA

Dr. Mike Williamsen

Dr. Williamsen is a nationally recognized workplace safety consultant with more than 25 years of safety and business change management experience. His background includes serving in Engineering, Operations, and Safety Manager positions for companies such as Frito-Lay, Inc. and General Dynamics. In 1985, Mike teamed with safety author Dr. Dan Petersen for three years to develop and implement a nationwide safety accountability and continuous improvement system that helped companies reduce injuries at a rate of 80% within two years. Since that time Mike has applied these and other high-impact safety approaches with similar success to other Fortune 500 companies, such as General Dynamics, Baxter Healthcare, Morton Salt, Rohm and Haas Co., and Smurfit Stone Container Corporation.



PRESIDENT
AND CEO, AcuTech
CONSULTING
GROUP

Mr. David Moore

David Moore is the President and CEO of the AcuTech Consulting Group, a process safety and security consulting firm based in Alexandria, VA. Mr. Moore was the lead author of the AIChE CCPS® "Guidelines for Managing and Analyzing the Security Vulnerabilities of Fixed Chemical Sites," the security guidelines for the American Petroleum Institute (API), and the API/National Petrochemical and Refiners Association Security Vulnerability Assessment Methodology. He serves in various capacities to advise the DHS on chemical security management and vulnerability assessment, including new DHS Chemical Facility Anti-Terrorism Standards.

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Pre-Conference Workshops

Pre-Conference Workshops

WS #1: Management Of Change (MOC)



Mrs. Revonda Tew

Revonda has a B.S. in Chemical Engineering from North Carolina State University and a MBA from the University of North Carolina's Kenan-Flagler Business School. She holds one US patent and has 12 years experience in the chemical industry, including process development, process engineering, and process safety management and evaluation. Revonda has significant hands-on experience having participated in, led and documented over 25 PHAs and numerous management of change (MOC) risk reviews, and performed many MOC approvals. Mrs. Tew is a Senior Process Safety Engineer and Trainer for Process Improvement Institute, a US-based company that is very active in process safety training and consulting for the past 12 years with all major companies in the Middle East.

Introduction

Management Of Change (MOC) is the element for which all other "foundation" elements of Process Safety Management (PSM) are implemented. It is the element that controls introduction of new risk. Recognizing change, analyzing the risk of each change, and handling small changes efficiently are just some of the barriers that managers face with MOC implementation. This 2-day workshop explores proven strategies for implementing a workable MOC system and customized approaches to fit your company's culture.

Target Audience

This workshop is designed for technical managers and supervisors, SH&E professionals, quality control managers and staff, process engineers, PSM coordinators, and most other operation, maintenance, reliability, and quality staff who are involved with designing, implementing, tracking, and evaluating MOC programs

Workshop Objectives

- What PSSR is and how it works and how it can be combined with MOC and mechanical integrity systems
- How to realistically control both small and large changes, minimizing employees' needs to bypass the system

- Simple frameworks for identifying and analyzing risks associated with a recommended change to help ensure the minimum losses to the company
- Training needs and requirements for all levels of the organization necessary to make managing change a functional system
- How to integrate all company systems for managing specific functional changes into one MOC system to handle PSM, SH&E, quality control, reliability, and productivity changes; and learn why this integration is so important

Workshop Description

Many Management Of Change (MOC) programs that were developed to meet Process Safety Management (PSM) requirements are overly burdensome and often ineffective as a result. The focus of this workshop is on effectiveness and efficiency. The workshop will help you to (1) recognize change and common change initiators, (2) ensure that risks are understood, (3) evaluate controls to manage risk, and (4) follow through to ensure that changes are implemented as intended. The workshop emphasizes hazard review techniques commonly used to evaluate changes. It also includes sections on improving existing programs for MOC and pre-startup safety review (PSSR).

Pre-Conference Workshops

WS #2: Layer of Protection Analysis (LOPA)



Mr. William Bridges

Bill is President of Process Improvement Institute (PII), a US-based consulting and training organization that specializes in controlling risk in chemical processing and manufacturing environments. He is considered a leading authority on process safety engineering, risk management, and human error prevention. He has a Bachelor and Masters degree in Chemical Engineering. He has 10 patents, and he 30 years of chemical industry experience. Bill has trained several thousand process hazard analysis/HAZOP leaders since 1987 and has been teaching LOPA courses since 1995. He was an originator of LOPA and a primary author for the LOPA guideline and he is the principal author of the upcoming textbook on Independent Protection Layers and Initiating Events.

Introduction

LOPA combines both qualitative and quantitative elements of hazard evaluation and risk assessment to analyze and judge the adequacy of existing or proposed safeguards against process deviations and accident scenarios. It uses an order of magnitude approach to quantify the likelihood of causes, likelihood of failure of independent protection layers (IPLs), and estimate the consequences for chosen accident scenarios. These approximations are used to estimate the risk of a scenario.

Target Audience

This workshop is designed for experienced PHA/HAZOP leaders and builds on risk judgment skills learned while doing qualitative risk reviews. However, others who do qualitative, semi-quantitative, and fully quantitative risk assessments will benefit from learning this quicker, simpler method for estimating risk. Only individuals with a strong technical background (such as engineers and scientists) should attend. Others who may benefit from this workshop include:

- Managers – Operations Safety
- Project Managers
- Engineers – Process, Safety, and Mechanical
- PSM Coordinators and Managers

Workshop Objectives

- When and how to use LOPA

- How to identify which scenarios from a HAZOP or other qualitative analysis could benefit from LOPA
- How to systematically create risk scenarios for new processes or for existing processes under change
- How to establish risk acceptance (risk tolerance) criteria for use within your company (this is also called development of ALARP criteria) and how to depict this in a Risk Matrix or in a formula
- How to calculate "as-is" risk for a cause-consequence pair.
- How to estimate the frequency of the initiating event and how to determine the consequence for the scenario (unmitigated)

Workshop Description

A key to the success of LOPA is its rules for judging if protection layers are truly independent. Because of these rules, LOPA helps the analysts make consistent judgments of the risk of scenarios "as low as reasonably practical (ALARP)." This "How To" workshop is taught by one of the originators of LOPA; he is also a principal author of the AIChE/CCPS book, Layer of Protection Analysis (2001). The workshop covers all aspects of how to apply this very useful technique. Workshops are used as the primary mode of teaching each aspect of LOPA. You will perform several complete LOPAs before leaving class.

Pre-Conference Workshops

WS #3: What You Should Know About Electrical Safety



Mr. Dennis Neitzel

Dennis K. Neitzel, CPE is a Senior Member of IEEE and is the Director of AVO Training Institute, Inc., Dallas, Texas. He is a Certified Plant Engineer (CPE) and a Certified Electrical Inspector-General. Mr. Neitzel earned his Bachelor's degree in Electrical Engineering Management and his Master's degree in Electrical Engineering Applied Sciences. He has been a Principle Committee Member and Special Expert for the NFPA 70E, "Standard for Electrical Safety in the Workplace," Since 1992 and has authored, published, and presented numerous technical papers, books, and magazine articles on electrical safety, maintenance, and training.

Introduction

This workshop is designed to increase electrical safety awareness by providing an understanding of the hazards of electricity, electrical shock, electrical arc-flash, and electrical arc-blast for employees classified as "qualified" who work on or near exposed electrical parts operating at 50 volts or more, and for those employees classified as "unqualified" but are exposed to electrical hazards during the performance of their job duties.

Target Audience

This workshop is designed for electrical technicians, engineers, supervisors and other personnel who work on/or near energized electrical equipment, as well as Safety Professionals and Managers.

Workshop Objectives

- Describe the hazards of electricity.
- Address the process of performing an electrical hazards analysis to determine the level of shock and arc-flash hazards.
- Address the safe work practices and procedures that are necessary to protect industrial and utility electrical workers who maintain electrical equipment.
- Identify the shock protection boundaries.
- Explain the use of electrical protective equipment.

- Identify arc/flash protective equipment and clothing.
- Identify electrical safe work practices and procedures.
- Identify safety related maintenance requirements.

Workshop Description

The workshop should help attendees know how to avoid the hazards of electricity by using special precautionary techniques, such as safety signs and tags, barricades, and attendants, along with safe working and approach distances to electrical equipment and overhead power lines; the requirements for in-service care, inspection, testing, and use of personal protective equipment to prevent electrical shock and injury from arc flash; insulating and shielding materials for protection from the electrical hazards; insulated hand tools to prevent short circuits and ground faults; and the proper selection and use of temporary protective grounding (earthing).

Pre-Conference Workshops

WS #4: Fire & Safety Inspections



Mr. Jitu Patel

Jitu C. Patel is an international safety consultant who has a BS in Chemistry and a M.Phil in Fuel Science. For 21 years, Mr. Patel has provided health and safety professional services to Saudi Aramco, the oil and gas producing and processing company in Saudi Arabia. He also has provided technical training and conducted research for 15 years on fires, explosions, health, safety and environment issues at a heavy chemical manufacturing company owned by U.K. oil companies. Mr. Patel has developed and conducted fire and safety seminars for safety & fire prevention engineers and line management of industry operations. He is a member of the ASSE International Professional Specialty Executive Board, a member of the BEAC Training & Education Board and also is a Senior Board Advisor to the ASSE Arizona Chapter.

Introduction

This workshop is for conducting effective safety and health inspections. It provides guidance on planning and designing them. Effective techniques for safety inspections, preparation of the reports on findings and management of recommendations are discussed. The workshop provides knowledge about the potential for hazardous conditions or unsafe acts and the fundamental concepts of fire, safety and health hazards and safeguards and controls needed to improve safety and loss prevention.

Target Audience

The workshop is useful to safety & fire prevention engineers, construction, process & maintenance engineers, line management supervisors from operations, maintenance and engineering organizations, and safety coordinators of construction and contracting companies.

Workshop Objectives

- Learn the role of safety inspection in safety programs. Plan and design the safety audit.
- Evaluate written programs versus actual practices. Establish findings, prepare reports and make recommendations.
- Understand line management's responsibility and accountability for safety performance.

- Identify numerous specific tools supervisors can use to improve safety of workers within their workplace.
- Learn methods and priorities of controlling industrial hazards including performing a Job Hazard Analysis and compliance with Work Permit Systems.

Workshop Description

This workshop covers a broad range of safety material providing safety orientation to construction projects and operating facilities of oil, gas, petro-chemical & chemical industries, and fire & explosion, health and general safety hazards. The seminar includes detailed discussions on utilizing checklists for operators' daily inspections, Planned Inspections, Supervisor's General Inspections, Quarterly Inspections, Corporate Fire & Safety Reviews, Critical Item Inspections, Pre-Use Equipment Inspections, Sub-standard Conditions reporting, Planned Job Observations, and Inspection findings reporting & action item follow-ups.

Pre-Conference Workshops

WS #5: Root Cause Analysis (RCA)



Mr. Namir George

Namir George is a registered European Engineer with a BSc in Chemical Engineering in 1979 and a MSc in Occupational Health and Safety in 1981 from Aston University in Birmingham, UK. He is currently employed as an Area Manager for the International Safety Council, a global subsidiary of the National Safety Council, USA.

He has 25 years experience in the field of safety and loss prevention gained in various industry sectors. He is a Chartered Chemical Engineer, Chartered Fellow of the Institution of Occupational Safety, member of the American Society of Safety Engineers (ASSE) and an affiliate member of the Institution of Environmental Management and Assessment (IEMA). In addition, he is a member of the Birmingham Health, Safety and Environmental Association (BHSEA).

Introduction

Root Cause Analysis is one of the most important tasks and responsibilities of HSE people. It helps them to remove hazards or reduce the level of risk by adding precautions or control measures, as necessary. Participants will learn how to employ effective investigation and interview techniques, analyze accidents to identify “true” root causes, and describe human relations issues affecting accident reporting. By doing so, they have created a safer and healthier workplace.

Target Audience

People with HSE responsibilities (managers, supervisors, investigators and officers). This workshop can also be of value to all operation engineers, managers and supervisors.

Workshop Objectives

- Upon completion, participants shall be able to:
- Focus on techniques for gathering complete, accurate and objective accident data used to arrive at true root causes and determine corrective action.
 - Further examine and analyze data as a means of preventing injuries, property damage and financial losses.
 - Employ effective investigation and interview techniques.

- Analyze accidents to identify “true” root causes.
- Describe human relations issues affecting accident reporting.

Workshop Description

The workshop will focus on techniques for gathering complete, accurate and objective accident data used to arrive at true root causes and determine corrective actions to further examine and analyze data as a means of preventing injuries, property damage and financial losses.

Pre-Conference Workshops

WS #6: The S.O.S. System® Combining Hazard Recognition and Behavioral Observation



Mr. Wayne LeBlanc

Wayne LeBlanc is the president and CEO of W C Safety Systems International, Inc. and is based in New Orleans Louisiana. He started his career in Oil and Gas with Texaco in 1974. Through over 30 years of experience he has worked with many clients training thousands of employees and performing worksite consulting on the “human side” of safety. His techniques have been put in place on 4 different continents. Wayne’s training seminars and keynote speeches are delivered with a great deal of enthusiasm and Cajun humor while delivering a very important message. He attended both Louisiana State University at New Orleans and Loyola University.

Introduction

Language barriers, cultural differences, Hazard Recognition, Behavioral Observations, and securing employee “buy-in” are just some of the many factors we must consider when designing and implementing our safety program. Employing one continuous thought process from job planning through completion while bridging the language gap, provides employees with a greater understanding of their safety responsibilities. This workshop was developed for all employees within an organization and by using the icon-based S.O.S. System®, Hazard Recognition and Behavioral Observations will be greatly enhanced.

Target Audience

All employees will benefit by becoming more proficient at recognizing hazards and making effective workplace Observations. This workshop targets General Managers, SH&E Managers, Risk Managers, Loss Prevention Managers, SH&E Reps & Committee Members, Operating Staff and employees in general.

Workshop Objectives

- Learning how our attitudes affect our behavior;
- Understanding why employees seem to “miss” the everyday hazards around us;
- Discussing the roles of the Job Safety (Hazard Analysis, Tailgate (Toolbox) Safety Meetings, and Observation and Intervention process;

- Introduce the S.O.S. System® and why it can enhance the current JSA and BBS systems being used within a company;
- How the icon-based S.O.S. System® reduces language difficulties;
- Gain greater knowledge of how to enhance Hazard Recognition and Control and Behavioral Observations in the workplace.

Workshop Description

The S.O.S. System® was designed to simplify the tailgate safety meeting, pre-job meeting, JSA, JHA, JSEA, and BBS systems while increasing their effectiveness and reducing language difficulties. There are ten situations which either cause or are a contributing cause in almost all incidents. Participants learn the icon-based system in a memory format, and through discussions understand what category of hazards each icon represents in their own workplace. Participants learn to use the icons in a similar manner as a pilot uses a pre-flight checklist. However, since the icons are taught in a memory system, the need for carrying additional forms, etc. is eliminated. By employing the checklist concept, employees do not overlook the routine hazards which cause most of our incidents. The same “Ten-Point System” is then used as a basis for the Behavioral Observation Process. By using one simple system from planning through completion of the job, employees become much more effective in their safety applications.

Pre-Conference Workshops

WS #7: Effective Fall Protection Programs



Mr. Thomas E. Kramer

Kramer is a structural engineer and safety consultant who serves as a principal within LJB Inc.'s safety division. As a dually registered professional engineer and Certified Safety Professional, he has spent much of his career consulting with clients on the investigation and renovation of facilities, which often requires extensive and creative structural and safety modifications. He specializes in the assessment and design of fall protection systems. Mr. Kramer is an active member of the ANSI Z359 committee and chairs the subcommittees that develop standards for the design of active fall protection systems (ANSI Z359.6-2009) and horizontal lifelines (ANSI Z359.17-20XX). He holds Bachelor's and Master's degrees in civil engineering, along with a MBA degree.

Introduction

Learning how to minimize the risk of potentially dangerous or fatal fall hazards allows organizations to take a proactive approach to worker safety. This two-day workshop provides an overview of effective fall protection programs, giving participants proven strategies for identifying, evaluating and controlling fall hazards. All information presented will be in accordance with the ANSI Z359 family of fall protection standards.

Target Audience

Because fall protection requires participation from many levels within an organization, a wide variety of attendees would benefit from this workshop - from management to skilled trades. This information is especially applicable for safety professionals and managers so they can avoid putting their workers in dangerous situations. All industries, but especially the petroleum industry, will benefit from this material.

Workshop Objectives

- To increase participants' awareness of the importance of fall protection
- To explain the key elements of a managed fall protection program
- To provide examples of common fall protection issues

- To clarify the value of incorporating safety into design
- To describe significant topics in the ANSI Z359 Fall Protection Code

Workshop Description

This two-day workshop provides participants with a thorough overview of an effective fall protection program. Beginning with background on current fall protection standards, regulations, statistics and trends, the workshop will provide information about all critical elements of a fall protection program. The information presented is organized around the guidelines and requirements for managed fall protection programs, as published in the ANSI Z359.2-2007 standard. This is the only fall protection standard in the world that comprehensively addresses these issues. Key topics include fall hazard assessments, hazard evaluation and abatement, fall protection training, rescue planning and program evaluation. General information about fall protection equipment will also be provided, including equipment components, system development, anchorages, and clearance requirements.

Pre-Conference Workshops

WS #8: Communicating Risk and Dealing with Crisis Communications



Ms. Pamela Ferrante

Pamela Ferrante, CSP, CHMM is the President of JC Safety & Environmental, Inc., located in Pittsburgh, Pennsylvania. Ms. Ferrante is a frequent speaker on the topic of risk and crisis communications as well as emergency response, and she provides numerous training sessions on preparing internal emergency response teams to various clients of her company. She was a contributing author to The Safety Professionals Handbook, published by ASSE in June 2008. Her chapter is titled "Emergency Preparedness: Cost Analysis and Budgeting." Ms Ferrante is also in the process of writing a book on the topic of risk and crisis communications for John Wiley & Sons.

Introduction

Our current culture and society rely increasingly on a near constant stream of written and verbal messages to evaluate the world and the risks associated with living in it. These messages do more than simply provide information; they can cause large groups of people to behave in certain ways as well as change their perceptions of the world around them. As part of their functional responsibilities, SH&E professionals are more frequently being called upon to develop the means and the messages to assess and communicate risks to the stakeholders of their organizations. This 2-day workshop provides a solid foundation for understanding the process of risk and crisis communications, its applications and practice.

Target Audience

This workshop is most applicable to management level SH&E professionals who may be required to develop relationships with stakeholders that provide information about the risks of their organization's activities, who may be called upon to speak on behalf of their organizations during a crisis, or who may provide consultation to their organizational spokespersons.

Workshop Objectives

- Understand the history of risk and crisis

communications, including common definitions and theoretical foundations.

- Learn the goals and objectives of the risk and crisis communications process.
- Understand the components of an effective written Risk/Crisis Communication Plan.
- Understand how to craft effective risk and crisis communications messages.
- Learn the common problems and pitfalls with both messages and delivery.

Workshop Description

Risk and crisis communications is a process of communicating information by a public or private organization to a stakeholder. The process and the messages require that some level of knowledge be imparted to stakeholders on how hazards will impact them and how they can prepare. The process can occur when hazards are already occurring, are about to occur, or being planned for as part of an overall emergency response preparedness process. This workshop will feature lectures, group discussions, case studies and hands-on activities that will help attendees understand the foundations of risk and crisis communications; develop a plan for their organization; learn how to craft messages for various situations; and avoid common pitfalls with both message content and delivery.

Pre-Conference Workshops

WS #9: Leading with Safety – Your Roadmap to an Injury-Free Culture



Mr. Teg Matthews

Teg Matthews has extensive experience in driving performance and implementing change within organizations across the Gulf, Middle East and the UK. His success has been based on effectively identifying and strategically helping to address key issues and implementing solutions within both the private and government sectors. He has worked with hundreds of client organizations from various sectors in both the Middle East and the UK helping them to assess and analyze their current situations and then design and implement changes and solutions that have led to measurably improved performance.

Introduction

Getting safety right is about connecting the right people in the right ways. When the efforts of front-line employees work in concert with the efforts of senior leaders, organizations set the stage for safety and operational excellence. BST's Leading With Safety seminar helps you understand the connections necessary for building an injury-free culture. It is designed for anyone who wants to understand the role of leadership at every level in both creating safety excellence and advancing the objectives of the organization. Attend this two-day seminar and learn the elements of an injury-free culture, the current research on the impact of leadership involvement, the roadmap for creating safety excellence, and practical, concrete steps for employee engagement from the front-line to the corner office.

Target Audience

- Executives and senior leaders interested in leveraging their effectiveness and impact without increasing their time commitments
- Managers looking for long-term system improvements in performance
- Site or corporate safety professionals
- Risk management professionals committed to continuous improvement
- Organizational representatives interested in approaches to safety performance improvement and who want to gain a better understanding of the crucial roles of leadership and engagement

Workshop Objectives

- Why safety is foundational to all types of performance improvement
- How to foster meaningful safety ownership and engagement in every employee throughout the organization
- How to cultivate leaders who truly understand and support safety, and inspire safety excellence in others
- What management and leadership practices make a difference in safety outcomes – and how to develop them in your staff
- How to measure organizational culture, and the organizational characteristics that are predictive of performance
- A top-to-bottom integrated approach to safety excellence and how to identify the best improvement strategy for your situation
- Analysis tools you can use to understand and reduce workplace exposure

Workshop Description

For many organizations the role of leadership and cultural alignment is becoming better understood and recognized in achieving safety results that last. When strong safety leadership and culture are coupled with effective systems, the organization is set to advance toward an injury-free culture where engagement and commitment are a part of everyday organizational life. The key is to understand what it means to **Lead With Safety** towards a safer, more productive, and effective organization.

Pre-Conference Workshops

WS #10: The Definitive Art of Behavior Change



Mr. Bill Sims

Bill Sims attended The University of South Carolina. He is the President of the Bill Sims Company, Inc. For more than 40 years the Bill Sims Company has created behavior-based recognition programs that have helped large and small companies to inspire better, safer performance from their employees and increase profits. More than 1,000 firms have benefitted from consulting with Mr. Sims and he is currently writing a book based on these experiences. He receives requests globally to speak on the subject of human behavior change, garnering extremely high ratings as a keynote speaker in the U.S., Canada, Australia, South Africa, Greece, Bahrain and Saudi Arabia. In the past 12 months he has spoken at the Saudi Council of Engineers in Saudi Arabia, IOSH in Scotland, ASSE (American Society of Safety Engineers), RMA (Rubber Manufacturing Association) and The WA Safety Conference in Canada.

Introduction

Motivation and recognition play a significant role in achieving permanent employee behavior change. Traditionally, safety "incentive" programs have based rewards on all employees reaching a benchmark. When rewards are based on everyone succeeding, negative peer pressure can occur, resulting in injury hiding. Tangible rewards that are positive, regular and certain reinforce desirable behaviors and conditions, making them more likely to continue and even replace undesirable behaviors and conditions.

Target Audience

The seminar is useful to operations, maintenance, construction and safety engineers, and also to supervisors and safety coordinators of oil, gas, petro-chemicals, chemicals, construction and other industries including manufacturing line management of contracting companies, hotels, government regulatory and educational establishments.

Workshop Objectives

- Learn about SAFESTART advanced safety awareness and skills development training program.
- Learn why proactive, prevention-oriented reward programs focus on identifying desirable actions.
- Gain a greater understanding of potential accident recognition as a means of prevention.

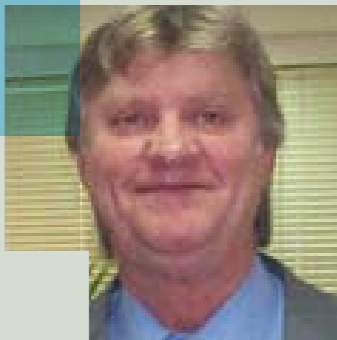
- Learn to design and implement successful behavior-based safety programs that dissuade injury hiding and engage line management.
- Learn the benefits of proactive, prevention-focused programs and explore the most "popular" recognition tools.

Workshop Description

This workshop explores the role of recognition as it relates to changing employee behavior. It focuses extensively on the mechanisms needed for successful behavior-based safety recognition and considers areas that are often overlooked. It covers: the pitfalls of using downstream or trailing indicators on accident rates instead of focusing on safety successes; the benefits of using upstream or leading indicators for implementing proactive, prevention-based programs; and the problems associated with using randomized games of chance and lottery programs (giving out rewards that aren't tied to specific behaviors). It reviews the most "popular" recognition tools in use today-gift cards and cash substitutes, travel awards, big giveaways and non cash merchandise awards - and what the latest studies indicate about their effectiveness for improving job safety.

Pre-Conference Workshops

WS #11: Risk Assessment (RA)



Immanuel Mulder

Immanuel Mulder is a Senior Manager with IRCA (Pty) Ltd in South Africa, and has more than 30 years experience in operational risk management. Before joining IRCA, Immanuel was the national chief inspector for occupational health and safety of the Republic of South Africa. He joined IRCA in 2000 where he developed a Behavior-based process for the management of risk. Since its inception, this process has been successfully implemented at more than 150 sites worldwide, with remarkable results.

Immanuel was a councilor of the South African Council for the Environment for five years and a board member of the South African National Productivity Institute for four years. He also served as a non-executive director of the National Occupational Safety Association of South Africa (NOSA) for seven years. He is a member of a number of international panels and work groups, including, amongst others, the ILO, ISO and the IISI.

Introduction

This program has been developed for all employers and employees interested in conducting risk assessments within the context of operational risk management. In the context of business, "risk" is defined as the chance of loss or gain. However, in the context of the probability of occurrence of harm or suffering as viewed from the safety, health and environmental viewpoint, only negative risks are considered.

Target Audience

The workshop targets General Managers, SH&E Managers, Risk Managers, Loss Prevention Managers, Security Managers, S&HE Reps & Committee Members, Operating Staff and employees in general.

Workshop Objectives

Discuss and apply the techniques for hazard identification and risk assessment in the workplace:

- Introduce Workplace Risk Assessment.
- Describe the workplace risk assessment process.
- Discuss and apply the techniques for hazard identification and risk assessment in the workplace.
- Utilize recording formats that can be used in the workplace risk assessment process.

- Demo available workplace risk software.

Workshop Description

The workshop begins with the introduction of Risk Management and the AS/NZS 4360:2004 model and its supporting documentation as well as demonstrating the context of Risk Management. Responsibilities and accountabilities are discussed to determine who is supposed to conduct assessments and how they are to be used.

The program moves to one of the most important issues which include understanding the terminology – using a common language for risk in the organization. The workshop will also discuss the different types of risk assessment, the workplace risk assessment process and documentation.

Pre-Conference Workshops

WS #12: Conducting Security Vulnerability Assessments



Mr. David Moore

David Moore is the President and CEO of the AcuTech Consulting Group, a process safety and security consulting firm based in Alexandria, VA. Mr. Moore was the lead author of the AIChE CCPS® "Guidelines for Managing and Analyzing the Security Vulnerabilities of Fixed Chemical Sites," the security guidelines for the American Petroleum Institute (API), and the API/National Petrochemical and Refiners Association Security Vulnerability Assessment Methodology. He serves in various capacities to advise the DHS on chemical security management and vulnerability assessment, including new DHS Chemical Facility Anti-Terrorism Standards.

Introduction

Security vulnerability assessment (SVA) is an essential step and the foundation for managing security risks in the process industries. AcuTech presents a class on leading SVA studies for the petroleum, petrochemical and chemical industries.

Target Audience

The target audience includes security and safety managers involved in facility and critical infrastructure protection, managers of facilities responsible for security, and government officials responsible for security of process facilities.

Workshop Objectives

The objective of the class is to learn methods for:

- Identifying critical infrastructure and characterizing assets
- Identifying and analyzing security threats, consequences, and vulnerabilities
- Assessing security risks and identifying potential countermeasures to reduce vulnerabilities
- Evaluating countermeasures effectiveness against threats
- Establishing a SVA strategy, program and capability within a corporation.

Workshop Description

This is a popular class on how to conduct a SVA for petroleum, petrochemical and chemical facilities. Included is an overview of proven security management strategies and technologies for risk reduction. The class has practical group SVA exercises covering a variety of applications and offers an opportunity to use SVAPro® software.

Pre-Conference Workshops

WS #13: Six Sigma Safety: Establishing World-Class Continuous Improvement



Dr. Mike Williamsen

Dr. Williamsen is a nationally recognized workplace safety consultant with more than 25 years of safety and business change management experience. His background includes serving in Engineering, Operations, and Safety Manager positions for companies such as Frito-Lay, Inc. and General Dynamics. In 1985, Mike teamed with safety author Dr. Dan Petersen for three years to develop and implement a nationwide safety accountability and continuous improvement system that helped companies reduce injuries at a rate of 80% within two years. Since that time Mike has applied these and other high-impact safety approaches with similar success to other Fortune 500 companies, such as General Dynamics, Baxter Healthcare, Morton Salt, Rohm and Haas Co., and Smurfit Stone Container Corporation.

Introduction

Changing your safety culture starts with a diagnosis. This reality check of what your salaried and hourly people truly believe delivers insights into both the strengths and weaknesses. Once armed with reliable data that goes beyond that available via infrequent observations, the real work begins. Continuous Improvement teams of hourly and salaried personnel attack the issues at hand. This workshop both shows and teaches the use of simple, highly effective, non-mathematical tools that energize an organization to relentlessly pursue a zero incident safety culture. Examples will be given and discussed as to who, what, when, and how to do this major safety culture change work.

Target Audience

Working safety professionals who want interactive teaching in how to effectively improve safety performance in a multi-cultural work environment

Workshop Objectives

Takeaways of the workshop include how to:

- Understand Safety Perception Survey results
- Establish cross-functional improvement teams focused on culture shortcomings
- Develop practical effective safety accountabilities for all job functions from the executive level to hourly contract employees at the workplace

- Integrate safety into daily business processes
- Establish executive level credibility participation and support for safety initiatives

Workshop Description

Participants will learn how a vertically integrated North American petrochemical organization with drilling, transport, refining and distribution diagnosed its safety culture on multiple occasions, developed a long-term strategy and ultimately reduced its Total Recordable Incident Rate (TRIR) to 0.08. The case study is based around the success of a culture-change process which begins with a Safety Perception Survey that benchmarks 20 statistically proven safety leadership processes. Attendees will interactively learn how continuous improvement tools and subsequent safety accountabilities are applied to all internal operations and external contract functions in order to achieve dramatic safety-performance results.

Pre-Conference Workshops

WS #14: Emotional Intelligence



Dr. Leonard Yong

Dr. Leonard Yong (PhD; MEd; B.Sc; DAPA) is a Senior Euromatech Consultant. He taught for more than 20 years in the University of Malaya before retiring as Professor in the Dept of Educational Psychology & Counselling. Professor Yong has extensive cross-cultural experience in consulting and research for agencies and companies in the Middle East, Japan, Australia, and the Asian region. His clients include Petronas, Maybank, Intel, Motorola, Malaysian Ministry of Health, Malaysian Ministry of Women, Family & Community Development, Saudi Arabia Government, Thai Reuters, Kuwait Petroleum Company and Oman PDO.

Professor Yong has gained international recognition for his work on the creativity of Malaysians. He was awarded the 1992 Fulbright-ACLS/MACEE Award to undertake research on the creativity of Americans.

Introduction

Emotionally intelligent management embraces and draws from numerous other branches of behavioral, emotional and communications strategies to develop more productive and successful leaders. Understanding and raising your Emotional Intelligence is essential to your success and leadership potential. In this workshop, delegates learn how to:

- Develop the ability to sense, understand and effectively apply emotions as a source of leadership, communication and influence
- Gain insight into perception and its importance in the workplace
- Understand how EQ influences the way people respond to others and themselves
- Discover how to apply EQ in the workplace for building teamwork and accountable leadership

Target Audience

This workshop is designed for:

- All managers, leaders & professionals who need to have in-depth knowledge of human behaviors
- Anyone who is interested in developing themselves to be a better leader and manager
- Individuals who desire to apply psychological knowledge to result in management and leadership strategies
- Individuals who wish to understand their emotions and how this affects those around them and their productiveness in the workplace

Workshop Objectives

Participants attending the workshop will:

- Develop interpersonal skills such as self-awareness, which is the ability of an individual to recognize and understand one's moods, emotions and drives as well as their impact on others.
- Cultivate empathy or the ability to understand the emotional makeup of other people and skill in responding according to their emotional reactions.
- Develop interpersonal skills which indicate the individual's proficiency in managing relationships and building networks.
- Develop skills in responding to criticisms and adversity.
- Gain leadership strategies for working with others towards shared goals.

Workshop Description

The workshop will concentrate on the skills required to lead teams effectively and manage the basket of personalities normally found in diverse groups. The ability to respond appropriately to feelings in ourselves and others, apply critical decision-making skills objectively, practice innovative teamwork and encourage synergy between team members are vital to building a successful organization.

Furthermore, on a personal level, participants will learn how to improve their leadership skills to motivate themselves and inspire others. Handle stress the high EQ way and delegate tasks for mutual enrichment.

Pre-Conference Workshops

WS #15: Contractor Safety, Health & Environment (SH&E)



Dr. Bill Pomfret

Dr. Pomfret is a best-selling author, speaker and dynamic presenter, who has traveled the world educating and motivating management and employees to adopt effective health, safety and risk control policies, practices and procedures that prevent or mitigate human, economic and environmental losses from adverse occupational exposures. He has developed and implemented many Occupational Health, Safety and Environmental models and was a Professor who taught practices and procedures at McGill University. Bill is a Fellow of the Institution of Occupational Safety and Health (UK), a certified seminar leader in the U.S.A. and a Fellow of the Royal Society of Health (UK), in addition to being certified in Canada, the USA, India, and South Africa, and is a Registered Safety Professional in his native Britain.

Introduction

Everyone uses contractors, but many companies have found great difficulties in effectively managing contractors on site. Contractors often have a different culture, a different perspective and a different attitude to safety. This workshop will take attendees on a step by step process of International best practices in insuring a safe project is achieved through agreed operational standards and procedures.

Target Audience

This workshop is designed for senior management and supervisors that need to understand the most up-to-date process used for managing contractors from proposal stage to project completion and to be able to incorporate these principles and requirements into their daily work activities.

Workshop Objectives

- Recognize the need to manage contractor health and safety.
- Recognize the problems associated with contractors.
- Understand the legal framework for health and safety in contracted work.
- Understand the process for the selection and appointment of competent contractors.
- Understand the main requirements of the CDM and similar regulations.

- Recognize the need to proactively monitor the performance of contractors.

Workshop Description

The workshop will enable delegates to appreciate the culture, which exists within the contracting industries. It will focus on areas of high risk, high return based on current International best practices, incorporating relevant legislation and the importance of being proactive as well as including detailed method statements prior to contract issue.

Pre-Conference Workshops

WS #16: Smoking Cessation Counseling Workshop



Dr. Mitchell Nides

Dr. Nides has been in the tobacco cessation field for over 20 years. Over that time his research and clinical practice has demonstrated that tobacco users can have the greatest success in quitting when cognitive-behavioral treatments are combined with approved medications and social support. He has been the principal investigator for over 50 clinical trials of smoking cessation medications from Nicotine Replacement Therapy to Zyban and Champix. His educational background is in Psychology, and has developed a number of strategies to teach tobacco users how to deal with the emotional and behavioral aspects of quitting. For the past five years he has designed and directed an intensive and comprehensive year-long smoking cessation program for workers in the Entertainment Industry in Los Angeles.

Introduction

This workshop provides both the theoretical and practical skills in developing, implementing and evaluating a smoking cessation program in the workplace, clinic or hospital setting. Specific smoking trends of the Middle East region will also be addressed so that the workshop is locally and culturally relevant.

Target Audience

- Health and wellness professionals
- Healthcare professionals & Health Promotion Specialists
- Clinicians
- S&HE Professionals that are charged with implementing a smoking cessation program and policy within their company

Workshop Objectives

- To understand the three facets of tobacco dependence and Health Benefits of Quitting
- To understand the current uses and dangers of Shisha
- To learn and apply the methodologies and tools of Carbon Monoxide Monitoring
- To understand and apply The 5A's for Brief Intervention
- To develop step by step procedures and materials for conducting individual and group smoking

cessation counseling—from intake interview through long-term follow-up

- To gain an understanding of the Pharmacotherapy associated with smoking cessation programs
- Learn how to treat smokers with co-morbid psychiatric disorders and poly-substance abuse
- To gain an understanding of the social support required with smoking cessation programs
- Learn how strategies for relapse prevention
- Step by step details of how to set up a Worksite, Clinic or Hospital Based Program
- To gain an understanding on how to develop telephone counseling and quit-lines programs.

Workshop Description

With a high incidence of smoking in the region all SH&E Professionals, healthcare, and health promotion professionals will be made aware of how smoking affects the population health and safety at work. This workshop provides both the science and practice so that professionals can implement a successful program based on the current global standards in smoking cessation benchmarks and practices.

Pre-Conference Workshops

WS #17: Risk Assessment and Management of Health Risks at the Workplace



Dr. Tee L. Guidotti

Dr. Tee L. Guidotti is a physician specializing in occupational and environmental medicine. He is currently an international consultant. Dr. Guidotti retired from a 30-year career as a university and medical school professor and department chair at the George Washington University and the University of Alberta, where he became known as an expert on hydrogen sulfide and occupational problems in the oil and gas industry. He has published over 250 papers and book chapters, and five books (two more are in production), and is a former president of the American College of Occupational and Environmental Medicine.

Introduction

Identification and evaluation of hazards in order to assess risk in the workplace is the foundation of occupational health and safety. The assessment of risk depends on knowing the level of exposure in the workplace, how frequently the worker is exposed, and the risk associated with that level of exposure. Practical hazard identification and risk assessment in the workplace depend on identification of the hazard, how much is present in the workplace, the opportunity that a worker may have to encounter the hazard, controls that are already in place, and availability of personal protection. "Control banding" is presented as a simplified approach suitable for small enterprises and workplaces and non-professionals to approach risk management at the enterprise level, suitable for dealing with most problems that fall within their own area of responsibility and identifying when professional help is required.

Target Audience

Health professionals, planners, managers, supervisors, occupational safety and health officers, loss prevention specialists, human resources specialists. This workshop is not designed for process engineers, hygienists, or safety engineers.

Workshop Objectives

At the conclusion of this workshop the learner will be able to:

- List six categories of hazards in the workplace and three general classes of outcomes.
- List and prioritize on the basis of efficacy seven approaches to control of hazards.
- Define risk assessment and risk management at the enterprise level and describe their relationship to the Deming Cycle of quality improvement.
- Design a simple workplace-level risk assessment strategy for a simple workplace exposure.
- Describe a general risk management approach for this workplace.

Workshop Description

This workshop will begin with an introduction to risk assessment (emphasizing hazard identification) and will proceed with short lectures, discussions, and case presentations. Each participant will be expected to present a problem in hazard identification for discussion by all workshop participants. All participants should come prepared to describe the following for at least one case or situation in their personal experience:

- Industry, occupation, process, and setting
- Reason for assessment
- Suspected hazard or hazard type
- Sources of information available
- What you did to assess hazard

Pre-Conference Workshops

WS #18: Job Safety Analysis (JSA)



Dr. Wes E. Scott

Wes Scott (PhD, PE) has over 30 years experience in the bio-medical, engineering, environmental and occupational safety and health fields. As Manager, Consulting Services at the National Safety Council, Wes provides oversight for core courses and other occupational training instruction for open enrollment and on-site programs. He provides technical and curriculum input for the development, implementation, and modification of occupational safety and health training programs, services and systems; and identifies safety and health needs in the marketplace that can be satisfied with existing consulting/training expertise.

Introduction

Job Safety Analysis (JSA) is a proven process for controlling operating hazards and costs. Get a step-by-step overview of the process, and define your role in making it effective. Through lecture, demonstrations, and workshops, you'll learn how to develop and manage a JSA program in your workplace. You'll also learn how to enlist participation from line employees, supervisors, and upper management.

Target Audience

Full-time safety practitioners, safety committee members, safety coordinators, safety specialists, human resources, safety managers, loss control managers and operations managers

Workshop Objectives

- Recognize and use important safety and health terminology.
- Understand JSA's relation to continuous improvement in your organization.
- Identify and communicate the safety and financial benefits of using JSA.
- Gain support for and participation in the process from line employees, supervisors, and upper management.
- Identify the key requirements for a successful JSA.
- Recognize the hazards inherent in task performance.

- Develop appropriate solutions and hazard controls.
- Complete a JSA form correctly.
- Use JSA to develop efficient procedures that reduce personal injuries and operating costs.

Workshop Description

The stages and steps in performing a JSA will be described in detail with examples. Attendees will practice what they are taught by performing exercises and participating in workshop sessions to conduct a JSA to gain experience using the method. Attendees will take part in practical team exercises, typical case studies and open discussion forums, as related to their own organization's operational activities. The main objectives addressed in this workshop include understanding workplace hazards, performing a JSA, JSA action plan, and implementing a JSA program.

Conference Timetable

Conference Timetable

DATE: MONDAY - FEBRUARY 22, 2010

	SESSION TITLE	NO.	LOCATION	TIME	PRESENTER NAME	COMPANY	PAPER TITLE	PAGE
	KEYNOTE SPEECH		A	09:00 - 10:00	Bill Sims	The Bill Sims Company	The Definitive Art of Behavior Change	
				MORNING BREAK	10:00 - 10:30			
Session 1	SAFETY, HEALTH & ENVIRONMENTAL MANAGEMENT SYSTEMS	1A	A	10:30 - 11:10	Teg Matthews	Behavioral Science Technology (BST)	Exposures vs. Injuries: Shifting our Focus for an Injury-Free Workplace	38
		1B		11:10 - 11:50	Mr. Troy O' Connor	Easy Risk Solutions Pty. Ltd. & IRCA Middle East KSA Operations	Enterprise Risk Management - Impact on SH&E	38
		1C		11:50 - 12:30	Bernd Freibott	Technidata AG	Overcoming SH&E Integration Challenges in Process Optimization and Factors to be Considered When Implementing a Successful SH&E Strategy	38
Session 2	BEHAVIORAL SAFETY	2A	B	10:30 - 11:10	Dr. Ali M. Al-Hemoud	Kuwait Institute for Scientific Research	How Culture Influences Behavior-Based Safety In The Workplace	38
		2B		11:10 - 11:50	Corrie Pitzer	SAFEmap International	The 7 Deadly Delusions in Safety	39
		2C		11:50 - 12:30	Mohammed Q. Al-Hajri	Al-Jubail Petrochemical Company	Personnel Behavior Observation (PBO) – Remove Barriers to Safety!	39
Session 3	RISK ASSESSMENT & MANAGEMENT	3A	C	10:30 - 11:10	Mr. David Moore	AcuTech Consulting Group	Chemical Security Vulnerability/Risk Assessments	39
		3B		11:10 - 11:50	Neil Prophet and Dr. Georges Melhem	ioMosaic Corporation	Advances in Quantitative Risk Analysis	39
		3C		11:50 - 12:30	Dr. Nicholas Cavanagh	DNV Software	A Software Model to Assess Fatality Risks from Gas Explosions Using the Multi Energy and BST Methods	40
Session 4	OCCUPATIONAL HEALTH & WELLNESS	4A	D	10:30 - 11:10	Dr. Tee L. Guidotti	SAMSO	Risk Assessment and Management of Health Risks at the Workplace	40
		4B		11:10 - 11:50	Dr. William Freeland	SAMSO	Alignment of Occupational Health Service with Corporate Business Lines	40
		4C		11:50 - 12:30	Dr. Nader Nassif	SAMSO	International and Local Contributions of Health Promotion to Safety Promotion	40
				LUNCH	12:30 - 14:00			
	KEYNOTE SPEECH		A	14:00 - 15:00	Dr. Leonard Yong	EuroMaTech	Applying Emotional Intelligence in the Workplace	
				AFTERNOON BREAK	15:00 - 15:30			
Session 5	TOOLS & TECHNIQUES FOR SH&E PROFESSIONALS	5A	A	15:30 - 16:10	Gareth Book	Risktec Solutions Ltd.	Bridging the SH&E Risk Management Competence Gap	41
		5B		16:10 - 16:50	Derek Hitchman	Enterprise Risk Solutions Group Ltd.	Turning Risk Information into Practical Intelligence	41
		5C		16:50 - 17:30	Pamela Ferrante	JC Safety & Environmental, Inc.	Risk and Crisis Communications	41

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DATE: MONDAY - FEBRUARY 22, 2010

	SESSION TITLE	NO.	LOCATION	TIME	PRESENTER NAME	COMPANY	PAPER TITLE	PAGE
Session 6	HAZARD ANALYSIS & MANAGEMENT	6A	B	15:30 - 16:10	Dennis Neitzel	AVO Training Institute, Inc.	Electrical Hazards Analysis	42
		6B		16:10 - 16:50	Warren Brown	ASSE Past President	Job Safety/Hazard Analysis	42
		6C		16:50 - 17:30	Mahmoud Tamer	Saudi Aramco	Selection of Process Hazard Analysis (PHA) Techniques in Process Industry Avoid Pitfall of Routine Choice	42
Session 7	CONTRACTOR SAFETY MANAGEMENT	7A	C	15:30 - 16:10	Steven R. Hemler	Saudi Aramco	Implementing a Comprehensive Contractor Safety Management Program	42
		7B		16:10 - 16:50	Jason D. Drelaud	Arabian Petrochemical Company	Contractors – 'A Necessary Risk'	43
		7C		16:50 - 17:30	Michael Snakard & Michael Hazzan	AcuTech Consulting Group	Lessons Learned in Managing Contractor Safety	43
Session 8	OCCUPATIONAL HEALTH & WELLNESS	8A	D	15:30 - 16:10	Samantha Horseman	SAMSO	Healthy Human Capital as a Business Strategy: The Saudi Aramco Wellness Program (SAWP)	43
		8B		16:10 - 16:50	Dr. Macodou Sall	SAMSO	Obesity the Growing Global Concern: Obesity Among Saudi Aramco Medical Services Organizations	44
		8C		16:50 - 17:30	Aida Rouhana	SAMSO	Tobacco Control at the Workplace: The Saudi Aramco Experience	44

DATE: TUESDAY - FEBRUARY 23, 2010

	KEYNOTE SPEECH		A	09:00 - 10:00	Dr. Mike Williamsen	CoreMedia	Building Safety Leadership: Beyond Glasses and Gloves	
	MORNING BREAK			10:00 - 10:30				
Session 9	SAFETY, HEALTH & ENVIRONMENTAL PERFORMANCE MEASUREMENT	9A	B	10:30 - 11:10	Michael Hazzan	AcuTech Consulting Group	Auditing Process Safety Management Systems	44
		9B		11:10 - 11:50	M. Vijay Kumar	Reliance Infrastructure Ltd., Dahanu	Benefits of Auditing Safety Health and Environment Management System by Integrated Management System (IMS)	45
		9C		11:50 - 12:30	Jitu C. Patel	Dallah Human Skills Development, KSA	BEAC Program for Certification of SH&E Auditors	45
Session 10	BEHAVIORAL SAFETY	10A	A	10:30 - 11:10	Bill Sims	The Bill Sims Company	Behavior Based Safety Is on Life Support	45
		10B		11:10 - 11:50	Maan Iskander	Saudi Aramco	Personnel Behavior Observation Program (Success Criteria vs. Misconceptions)	46
		10C		11:50 - 12:30	Immanuel Mulder	IRCA Middle East LLC	Behaviour and Human Factors in Safety	46

Conference Timetable

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Conference Timetable

DATE: TUESDAY - FEBRUARY 23, 2010

	SESSION TITLE	NO.	LOCATION	TIME	PRESENTER NAME	COMPANY	PAPER TITLE	PAGE
Session 11	INHERENTLY SAFER & LIFE CYCLE APPROACH	11A	D	10:30 - 11:10	Thomas E. Kramer	LJB Inc.	Implementing Safety During the Design Phase of a Project	46
		11B		11:10 - 11:50	Dr. Tony Clark	Process Improvement Institute	Are You Spending Too Much on Process Design Safety?	47
		11C		11:50 - 12:30	Ahmed H. Al-Jaafar	GE Energy Power Services	Is Safety a Common Sense? A Systematic Approach to Safety for Project Management and Construction	47
Session 12	TOOLS & TECHNIQUES FOR SH&E PROFESSIONALS	12A	C	10:30 - 11:10	Wayne P. LeBlanc	WC Safety Systems, Inc.	The S.O.S. System® Combining Hazard Recognition and Behavioral Observation	47
		12B		11:10 - 11:50	Mr. Troy O' Connor	Easy Risk Solutions Pty. Ltd. & IRCA Middle East KSA Operations	SH&E Leading and Lagging Indicator Dynamics	48
		12C		11:50 - 12:30	Brad Brewster	Arkansas ASSE Chapter President	The Embedded Safety Coach: A Global Solution to Localized Challenges	48
LUNCH				12:30 - 14:00				
	KEYNOTE SPEECH		A	14:00 - 15:00	Nina Wrightson	British Safety Council Director	TBA	
AFTERNOON BREAK				15:00 - 15:30				
Session 13	SAFE WORK PRACTICES & OPERATIONS	13A	B	15:30 - 16:10	Thomas E. Kramer	LJB, Inc.	Fall Protection Overview: ANSI Z359 Standard	48
		13B		16:10 - 16:50	Warren Brown	ASSE Past President	Identifying Confined Spaces	49
		13C		16:50 - 17:30	Abdullah M. Al-Harbi	Saudi Aramco	Traffic Safety in Saudi Aramco	49
Session 14	ELECTRICAL SAFETY	14A	C	15:30 - 16:10	Abdullah M. Al-Zahrani	Saudi Aramco	Implementing a Corporate Electric Arc Flash Safety Program	49
		14B		16:10 - 16:50	Dennis Neitzel	AVO Training Institute, Inc.	Training Electrical Engineering and Maintenance Employees to be Qualified	49
		14C		16:50 - 17:30	Ahmed A. Al-Sufyani	Saudi Aramco	Practical Engineering Solutions for Controlling Arc Flash Hazards	50
Session 15	INHERENTLY SAFER & LIFE CYCLE APPROACH	15A	D	15:30 - 16:10	David Moore	AcuTech Consulting Group	Implementing Inherent Safety	50
		15B		16:10 - 16:50	Fadi Hamdan	Market Opportunities	Protection of Oil and Gas Installations Against Fires	50
		15C		16:50 - 17:30	P. Radhakrishnan & Waddah S. Ghanem	Emirates National Oil Company Limited (ENOC) LLC	Technical Considerations in Selection of Oily Water Separators in the Terminating Industry	51
Session 16	SAFETY, HEALTH & ENVIRONMENTAL MANAGEMENT SYSTEMS	16A	A	15:30 - 16:10	Tahir Jamal Qadir	SABIC Terminal Services Company	Responsible Care-Integrating Security with QHSE	51
		16B		16:10 - 16:50	Yasser Mubarak Al-Mowalad	Saudi Aramco	Scheme of World-Class Quality Safety	51
		16C		16:50 - 17:30	Kaushik Roy	Kuwait Oil Company	SH&E Management at West Kuwait Oil Fields of Kuwait Oil Company, Kuwait	51

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	SESSION TITLE	NO.	LOCATION	TIME	PRESENTER NAME	COMPANY	PAPER TITLE	PAGE
	KEYNOTE SPEECH		A	09:00 - 10:00	David Moore	AcuTech Consulting Group	The Past and Future of Process Safety Management	
	MORNING BREAK			10:00 - 10:30				
Session 17	NEAR MISS INCIDENT REPORTING & ANALYSIS	17A	B	10:30 - 11:10	Wayne Basson	Enterprise Risk Solutions Group Ltd.	Negligent Employees...A Personal Journey Across Five Continents	52
		17B		11:10 - 11:50	Dr. Paolo A. Bragatto	ISPESL Italian Institute for Prevention and Safety at Work	The Study of Near Misses and the Knowledge Management in Mature Industries	52
		17C		11:50 - 12:30	Narayan Vasudevan & Dinesh Kumar Dutta	Kuwait National Petroleum Corporation	New Approach to Enhance Near Miss Incident Reporting	52
Session 18	MECHANICAL INTEGRITY MANAGEMENT	18A	C	10:30 - 11:10	Mousa R. Harbi	Saudi Aramco	Enhancing Safety Thru Preventive Maintenance	53
		18B		11:10 - 11:50	Mohammad Amin Shoushtari	Improved Oil Recovery Research Institute	Challenges of Well Integrity Management in Enhanced Oil Recovery Projects – Gas Injection Process (CO ₂)	53
		18C		11:50 - 12:30	Ahmed Ajabnoor	Arabian Industrial Fibers Company	Implementing Pre-Startup SH&E Review in New Facility (Plant)	53
Session 19	PROCESS SAFETY MANAGEMENT	19A	A	10:30 - 11:10	William Bridges	Process Improvement Institute	Human Factors Elements Missing from PSM	54
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		19C		11:50 - 12:30	Henry Ozog, Judy Perry and Dr. Georges Melhem	ioMosaic Corporation	Case Study for Streamlining Systems and Establishing a Process Safety Culture with Current Day Technology	54
Session 20	DEFIBRILLATION & HEAT STRESS MANAGEMENT	20A	D	10:30 - 11:10	Steve Jelfs	Cardiac Science Corporation	At The Heart of Saving Lives – Shockingly Obvious!	55
		20B		11:10 - 11:50	Dr. John Schneider	UAE University	A Comparison of Indices for Predicting Heat Stress of UAE Construction Workers	55
		20C		11:50 - 12:30	Fraser Lindsay	Emirates National Oil Company Limited (ENOC) LLC	A Practical Approach to Heat Stress at ENOC's Dubai International Airport Refueling Operations	55

Conference Timetable

Conference Timetable

Technical Sessions

**MONDAY FEBRUARY 22, 2010
10:30 – 12:30**

SESSION 1

EXPOSURES VS. INJURIES: SHIFTING OUR FOCUS FOR AN INJURY-FREE WORKPLACE

Companies serious about safety performance often talk about the injury-free culture. The problem is that despite adopting this new standard, many organizations continue to function within models and cultures that are incompatible with zero harm performance. Chief among these paradigms is the use of injuries as the measure of performance and the trigger for change. Injury statistics are an imprecise and reactive measure for a goal of doing everything possible to prevent an injury. This paper examines the problem with an injury focus and discusses principles for adapting and using an exposure focus for injury-free performance.

Mr. Teg Matthews
*Executive Consultant
Behavioral Science Technology
Leuven, Belgium*

ENTERPRISE RISK MANAGEMENT – IMPACT ON SH&E

This paper analyzes the integrated Enterprise Risk Management (ERM) approach and explores the impact on traditional safety and loss prevention professionals. The importance of ERM will be examined, particularly when dealing with potential future events that could create uncertainty.

Mr. Troy O' Connor
Managing Director - Easy Risk Solutions Pty. Ltd. & Business Development Executive - IRCA Middle East KSA Operations

OVERCOMING SH&E INTEGRATION CHALLENGES IN PROCESS OPTIMIZATION AND FACTORS TO BE CONSIDERED WHEN IMPLEMENTING A SUCCESSFUL SH&E STRATEGY

This paper highlights the challenges in integrating diverse functional areas of expertise in an organization within the realm of SH&E management with due considerations given to the range of human resources skills and personalities that are part of the system.

Mr. Bernd Freibott
*Member of ASSE and IOSH
c/o Technidata AG
Dornierstrasse 3
88667 Markdorf, Germany*

SESSION 2

HOW CULTURE INFLUENCES BEHAVIOR-BASED SAFETY IN THE WORKPLACE

This paper presents the general framework of a Behavioural Based Safety (BBS) model and discusses the synergistic factors that impact behaviour. Although specific behavioural safety systems may vary in form and complexity, there are fundamentally four common elements: identification, measuring, monitoring, and improving behavioural based safety systems.

Dr. Ali M. Al-Hemoud, Ph.D., CSP, CIH, CHCM
*Associate Researcher
Kuwait Institute for Scientific Research
Occupational and Environmental Health and Safety Expert, Kuwait*

Technical Sessions

SESSION 3

CHEMICAL SECURITY VULNERABILITY/RISK ASSESSMENTS

As the global economic downturn strains budgets worldwide, the frequency and intensity of security issues facing petroleum and petrochemical assets continue to increase, from terrorism to piracy to theft. How can the persons responsible for protecting these assets ensure that funding for security is spent wisely, allocated correctly, and justified to management? Threat-based security vulnerability assessments (SVA) and risk-based performance metrics have emerged as prudent concepts to help select and implement the most appropriate protective measures and practices

Mr. David Moore, PC, CSP
*President & CEO
AcuTech Consulting Group*

ADVANCES IN QUANTITATIVE RISK ANALYSIS

Until recently, the level of detail of a Quantitative Risk Analysis (QRA) study has been limited by the availability of high speed computing resources. Results for coarse QRA studies were typically presented in terms of overall individual risk, or societal risk, with little opportunity to segment or analyze the risk results in more details. This presentation discusses how a basic QRA can now be enhanced to include more detailed segmentation of risk results, or easily expanded to include a detailed facility siting analysis.

Mr. Neil Prophet <i>Senior Partner ioMosaic Corporation 2401 Fountain View Drive Houston, TX 77057 USA</i>	Mr. G. Melhem <i>ioMosaic Corporation 93 Stiles Road Salem, NH 03079 USA</i>
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THE SEVEN DEADLY DELUSIONS IN SAFETY

This paper examines the risk complacent behaviours that organizations tend to make unknowingly. The delusions often steer organisations to tread in dangerous waters despite ample leading indicators. Lessons learnt from B.P. Texas City, Bhopal, Piper Alpha, and similar industrial major accident events and analyze on applying the lessons are presented in this paper.

Mr. Corrie Pitzer
*Chief Executive Officer
SAFEmap International
Suite 108-4664 Lougheed Highway
Burnaby, BC V5C 5T5, Canada*

PERSONNEL BEHAVIOR OBSERVATION (PBO) – REMOVE BARRIERS TO SAFETY

Implementing traditional programs and robust management systems, organizations have reduced injuries and minimized risks tremendously. This paper discusses KEMYA's "do-it-yourself" approach and experience in assessing, developing, planning, organizing, and implementing behavioral observation and a feedback tool known as "PERSONNEL BEHAVIOR OBSERVATION (PBO)."

Mr. Mohammed Q. Al-Hajri
*Manager
Industrial Security Department
Al-Jubail Petrochemical Co. (KEMYA)
Jubail Industrial City 31961
Kingdom of Saudi Arabia*

Technical Sessions

A SOFTWARE MODEL TO ASSESS FATALITY RISKS FROM GAS EXPLOSIONS USING THE MULTI-ENERGY AND BAKER-STREHLOW-TANG METHODS

When assessing risks from explosions it is necessary to predict the overpressures generated if releases of flammable gas ignited in congested areas. Two widely used models for QRA in this context are the Multi-Energy Method and the Baker-Strehlow-Tang model. Over the last few years a number of industry funded initiatives have been undertaken, such as the GAME, RIGOS and GAMES projects, to improve both their accuracy and usability. This paper describes the implementation of these methodologies within the PhastRisk software tool for the assessment of risks in the vicinity of VCE's.

Dr. Nic Cavanagh
Head of Safeti Product Management
DNV Software
London, United Kingdom

Dr. Yongfu Xu
Mathematical Modeller
DNV Software
London, United Kingdom

Dr. David Worthington
Head of Risk Modelling
DNV Software
London, United Kingdom

SESSION 4

RISK ASSESSMENT AND MANAGEMENT OF HEALTH RISKS AT THE WORKPLACE

This paper describes the framework of health risk assessment and management. Hazard identification

along with consequence estimation determines the risk. The level of acceptable risk is a factor of time, level and frequency of exposure to hazards. Commensurate to risk, controls are put in place to manage risk. Hierarchy of controls apply to manage risk.

Dr. Tee L. Guidotti, M.D., MPH DABT
Consultant
Preventive Medicine Services Division, HDO
Saudi Arabian Oil Company (Saudi Aramco)
Dhahran, Saudi Arabia

ALIGNMENT OF OCCUPATIONAL HEALTH SERVICE WITH CORPORATE BUSINESS LINES

The paper discusses the reorganization of Occupational Health Services in Saudi Aramco to re-emphasize prevention and proaction. Dedicated teams will work with individual business lines to provide specific services such as preplacement, fitness-for-duty, and impairment assessment for disability evaluations. The interface will also be the point of contact and entry for other subdivisions, including Public Health and Health Promotion.

Dr. William Freeland, M.D., MFOM
Chief, Preventive Medicine Services Division
Saudi Arabian Oil Company (Saudi Aramco)
Dhahran, Saudi Arabia

INTERNATIONAL AND LOCAL CONTRIBUTIONS OF HEALTH PROMOTION TO SAFETY PROMOTION

This paper studies the historic drive for health promotion that led to the Framework Convention

Technical Sessions

on Tobacco Control in 2003 and the Bangkok Charter in 2005. The contribution of these documents to the promotion of safety and health in industrial settings will be examined and the limitations will be presented.

Dr. Nader Nassif, Ph.D., MPH
Health Education Specialist
Health Promotion Unit
Saudi Arabian Oil Company (Saudi Aramco)
Dhahran, Saudi Arabia

MONDAY FEBRUARY 22, 2010
15:30 – 17:30

SESSION 5

BRIDGING THE SH&E RISK MANAGEMENT COMPETENCE GAP

This paper suggests an approach to SH&E risk management which delivers a competent professional by combining the positive aspects of training with practical experience of applying risk management techniques in the real-world, formal assessment of competence and qualification, and understanding of industry-specific issues.

Mr. Gareth Book
Principal Consultant
Risktec Solutions Limited
Wilderspool Park
Greenall's Avenue, Warrington
Cheshire WA4 6HL, United Kingdom

TURNING RISK INFORMATION INTO PRACTICAL INTELLIGENCE

Through the use of technology many companies are

now taking everyday information collected at sites and turning that raw risk data into management intelligence which can be used to make better business decisions. This paper looks at risks in detail as well as how to resolve them so they do not impact your projects. Case studies of a fully automated incident management process and consolidated reporting of risk assessments to group levels will also be studied to find out their reasons for success.

Mr. Derek Hitchman
Manager
ERSG Software Division
Easy Risk Solutions Pty Ltd.
2 Brandy Crt., Eatons Hill
Brisbane QLD, 4037
Australia

RISK AND CRISIS COMMUNICATIONS

Risk Communication and Crisis Communication are tools that are becoming essential for any SH&E Professional. Both allow for effective transmission of information during periods of high stress to an organization. This session will focus on a number of important concepts including common theoretical foundations and definitions; evaluation of the risk to the organization in a variety of situations; and development of a written Risk/Crisis Communication Plan.

Ms Pamela Ferrante, CSP, CHMM
President
JC Safety & Environmental, Inc.
321 South Negley Avenue
Pittsburgh, PA 15232
United States of America

Technical Sessions

SESSION 6

ELECTRICAL HAZARDS ANALYSIS

In order to resolve the issues of electrical hazards in the industry, a path must be followed that will lead to a comprehensive analysis of the workplace to determine if electrical hazards are present, or are likely to be present, which would necessitate the use of personal protective equipment (PPE), procedures, and qualified person training. An analysis of all three electrical hazards (shock, arc flash, and arc blast) must be completed and steps taken to prevent injuries or fatalities.

Mr. Dennis K. Neitzel, CPE
Director, AVO Training Institute, Inc.
4271 Bronze Way
Dallas, Texas 75237-1019
United States of America



JOB SAFETY/HAZARD ANALYSIS

Job hazard analysis is a process of reviewing the job elements looking for deviations from the normal expected process and with the expected outcome of controlling these differences to reduce the potential for accidents. A job is selected and a team then analyzes the job for deviations that could result in a future loss producing incident. Control methods for each deviation are determined and then factored into the job.

Mr. Warren K. Brown, CSP, ARM, CSHM
1855 Campus Dr
Fairborn, Ohio 45324
United States of America



SELECTION OF PROCESS HAZARD ANALYSIS (PHA) TECHNIQUES IN PROCESS INDUSTRY AVOID PITFALL OF ROUTINE CHOICE

The ability to ensure process safety at a facility is influenced by many things: like employing appropriate design and construction, foreseeing the effects of external circumstances, understanding and dealing with human behavior, getting high reporting of near misses, and most importantly having effective management systems.

Mr. Mahmoud H. Tamer
Eastern Region Distribution Department
Saudi Arabian Oil Company (Saudi Aramco)
Dhahran, Saudi Arabia



SESSION 7

IMPLEMENTING A COMPREHENSIVE CONTRACTOR SAFETY MANAGEMENT PROGRAM

Contractor safety management is a vital responsibility of both the hiring company and the contractor. Owner companies have a direct responsibility to prevent injuries to company and contractor employees, as well as to prevent damage to property, disruption of operations, and loss of production. This paper describes the components of a comprehensive program consisting of four key management processes: Contractor Safety Prequalification; Pre-Job Safety Explanation Meetings; Facility Safety Orientation; and Site Safety Performance Monitoring.

Mr. Steven R. Hemler
Loss Prevention Specialist
Loss Prevention Department
Saudi Arabian Oil Company (Saudi Aramco)
Dhahran, Saudi Arabia



Technical Sessions

CONTRACTORS – ‘A NECESSARY RISK’

Within the Middle East, petrochemical plants are no different than many client organizations, which due to a host of reasons find contractors a necessary requirement of this day and age for both short and long term projects. Despite their reassuring promises of providing nothing but the safest equipment and personnel, and barraging their client with promising risk assessments, the reality is far from perfect.

Mr. Jason D. Drelaud
Sr. Staff Safety Engineer, ISS&E Safety & Environment
Arabian Petrochemical Company (SABIC Affiliate)
PO Box 10002, Jubail Industrial City 31961
Saudi Arabia



LESSONS LEARNED IN MANAGING CONTRACTOR SAFETY

Contractor Safety for Process Safety Management can be one of the more challenging elements of PSM. In particular, it was recognized as a contributing factor in many of the world's largest PSM accidents, in particular the Phillips 66 Polyethylene explosion in 1989 and therefore added to the US OSHA PSM requirements. This paper will examine the critical issues of contractor safety management including training, safety performance evaluation, and communicating hazard information. In the Middle East, contractor safety management is compounded by the diverse workforce and the backgrounds of the labor force. Special activities, such as simultaneous operations, turnarounds, and very large workforce expansions place an additional risk on the facility operator and the contract workforce. The purpose of the paper is to relay advice and guidance on developing an effective contractor safety element and to effectively implement it within the organization.

Mr. Michael Snakard
AcuTech Consulting Group
1600 Tyson's Boulevard, Suite 800
McLean, VA 22102
United States of America

Mr. Michael Hazzan
AcuTech Consulting Group
1600 Tyson's Boulevard, Suite 800
McLean, VA 22102
United States of America



SESSION 8

HEALTHY HUMAN CAPITAL AS A BUSINESS STRATEGY: THE SAUDI ARAMCO WELLNESS PROGRAM (SAWP)

Healthy human capital is a critical success factor for any company in the business of sustainable exploration and production of oil and gas. The workplace is an ideal setting to address health and well-being. Since 2005, the Saudi Aramco Wellness Program (SAWP) consists of a workplace wellness (healthy employees) program and community wellness (healthy family) program. Most of the costly chronic health conditions seen across the Saudi Aramco population are due to lifestyle factors, and therefore are directly preventable. These programs are developed, implemented, and evaluated by the Wellness Program Group (SAMSO).

Ms Samantha Horseman, BPhy CCP(Erg) CWWC MBA
Preventive Medicine Services Division
Saudi Arabian Oil Company (Saudi Aramco)
Dhahran, Saudi Arabia



Technical Sessions

OBESITY THE GROWING GLOBAL CONCERN: OBESITY AMONG SAUDI ARAMCO MEDICAL SERVICES ORGANIZATIONS

This paper presents a case study on obesity undertaken at the Saudi Aramco Medical Services Organization (SAMSO). Saudi Arabia has seen a drastic change in its nutritional and health profile in the past decades as a result of changes in dietary habits, socio-economic situation, and lifestyle. Statistical data on obesity are presented with comparison to other developed countries facing similar situations.

Dr. Marcodou Sall, DrPH
Epidemiology Services Unit
Preventive Medicine Services Division
Saudi Arabian Oil Company (Saudi Aramco)
Dhahran, Saudi Arabia

TOBACCO CONTROL AT THE WORKPLACE: THE SAUDI ARAMCO EXPERIENCE

Regional patterns of tobacco use vary markedly from patterns elsewhere in the world, with a particularly intense traditional form of smoking, known as shisha, being extremely popular among all ages. Traditional attitudes toward health shape the responsiveness of residents. Saudi Aramco has developed a comprehensive tobacco control program for company employees and their dependents: Saudi Aramco Smoking Cessation Program (SASCP). The objectives of the SASCP are to reduce tobacco use prevalence among beneficiaries, prevent the initiation of tobacco use, and create smoke free grounds through a phased approach. Management support and strategic alliances are needed to integrate tobacco control programs into existing corporate core functions, such as health and safety.

Ms Aida Rouhana, MPH, TTS, CWWD
Health Education Specialist
Preventive Medicine Services Division
Saudi Arabian Oil Company (Saudi Aramco)
Dhahran, Saudi Arabia



TUESDAY FEBRUARY 23, 2010
10:30 – 12:30

SESSION 9

AUDITING PROCESS SAFETY MANAGEMENT SYSTEMS

An audit is a fundamental part of an effective process safety program because its purpose is to verify that systems to manage process safety are in place and functioning effectively. The audit element also needs to have a management system in place to ensure that it functions effectively—particularly the follow-up on action items. This paper will describe a step by step process to effectively manage and conduct an audit. The authors managed the CCPS Guidelines for PSM Auditing. Included in this new guidance will be advice on how to incorporate the recently published CCPS book on Risk-Based Process Safety (RBPS) was used as a basis for choosing the program structure, that is, the elements that make up a process safety program. These elements are similar to but not identical to the elements in OSHA's Process Safety Management (PSM) Standard (29 CFR 1901.119), and the prevention portion of EPA's Risk Management Program (RMP) Rule (40 CFR 68). In addition to the technical elements of a process safety program, this book also addresses other sources of process safety program content and guidance, e.g., Process safety culture, OSHA's audit guidance, the Safety and Environmental Management Program (SEMP), and International process safety standards.

Technical Sessions

Mr. Michael Hazzan
AcuTech Consulting Group
1600 Tyson's Boulevard, Suite 800
McLean, VA 22102
United States of America



BENEFITS OF AUDITING SAFETY, HEALTH AND ENVIRONMENTAL MANAGEMENT SYSTEM BY INTEGRATED MANAGEMENT SYSTEM (IMS)

All companies who strive for excellence in management of the organization in a systematic way utilizing the world's best technologies and strategies need to make efforts to standardize their operation systematically with proper procedures at all levels. The best way of doing this is to utilize time tested and widely accepted management systems which are internationally recognized. The International Standards Organization (ISO), which has number of such standards on management systems, is a most preferred method and quick and easy way to make procedures which are compatible to any type of organization. The most popular and matured system is the Quality Management System (ISO 9001) and ISO 14001 for Environmental Management System. Next is OHSAS 18001 for Occupational Health and Safety System. These three management systems are excellent conduits to develop the procedures systematically with a common systems approach with continual improvement as a key process in all the standards. Organizations to understand the need for an integration of management systems seamlessly for better productivity and organizational improvements. The Integrated Management System (IMS) is one such tool which has the power of all the above three management systems auditing with an excellent flexibility of process based approach and systems.

Mr. M. Vijay Kumar
General Manager (EMG)

Reliance Energy Limited
Dahanu TPS, Dahanu, Maharashtra 401608
India



BEAC PROGRAM FOR CERTIFICATION OF SH&E AUDITORS

The Board of Environmental, Health & Safety Auditor Certifications (BEAC®) was formed in 1997. BEAC has achieved remarkable success since its formation and has quickly established itself as the worldwide certification board of choice for top specialty auditors. BEAC's certification programs promote high standards of ethical practice and professional competence, and recognize specialty auditing professionals who meet these high standards with the professional designation of Certified Professional Environmental Auditor (CPEA).

Jitu C. Patel, CPEA
International Safety Consultant
United States of America



SESSION 10

BEHAVIOR BASED SAFETY IS ON LIFE SUPPORT

This paper enumerates the importance and effectiveness of Behavior Based Safety (BBS). Failure of BBS is unthinkable particularly with the proven results of improving injury reduction by an order of magnitude. A comparison of BBS systems is drawn with the Total Quality Management (TQM)/Six Sigma style approach as it promotes a participative, promotive, and positive work culture in an organization.

Technical Sessions

Mr. Bill Sims, Jr.
President
The Bill Sims Company, Inc.
114 Centrum Drive
Irmo, South Carolina 29063
United States of America

PERSONNEL BEHAVIOR OBSERVATION PROGRAM (SUCCESS CRITERIA VS. MISCONCEPTIONS)

Organizations have their own safety standards and programs; their effectiveness at minimizing risks is dependent on behavioral compliance in the work place. The key element to achieve safety excellence is to establish a behavior-based safety program within the organization. This paper discusses one Saudi Aramco department's journey in implementing this program, sharing the program success criteria and misconceptions that could be encountered in every organization.

Mr. Maan M. Iskander
Operation Foreman
Berri Gas Plant Department
Saudi Arabian Oil Company (Saudi Aramco)
Dhahran, Saudi Arabia
Irmo, South Carolina 29063
United States of America

BEHAVIOR AND HUMAN FACTORS IN SAFETY

To achieve and sustain world-class performance in safety requires continuous attention in three domains: workplace conditions, the competency of employees, and the behavior of employees. Traditionally, organizations pay attention only to the first two of

these domains. Organizations that have shifted their focus to the behavior of employees have achieved substantial and dramatic improvements in performance, even where that performance was already at a very good level.

Mr. Manie Mulder
Operations Manager
IRCA Middle East LLC
Dubai, UAE

SESSION 11

IMPLEMENTING SAFETY DURING THE DESIGN PHASE OF A PROJECT

It might be easier to see the hazards in an existing facility, but it's safer and more cost effective to implement safety measures before structures are built. Using case studies this session will examine the process and benefits of implementing safety during the design phase of a project. This paper addresses how to minimize the risk of potentially dangerous or fatal hazards by taking a proactive approach to worker safety and will examine the benefits and process of implementing safety measures during the programming and design phases of a project. The concept of "Safety by Design®" is a mechanism for moving the discussion of safety hazards and harmful risks into the design and programming phases of projects. This involves incorporating hazard analysis and risk assessments earlier than usual in the project process. This also involves taking the necessary steps to mitigate the risk of incidents that can cause damage or injuries to workers. Risks are mitigated to an acceptable level and various other aspects such as health and environmental concerns are considered in these early phases of development. By using this proactive approach to safety, engineering controls are put in place in the early stages of construction, resulting in the mitigation of potentially dangerous or fatal accidents.

Technical Sessions

Mr. Thomas E. Kramer, P.E., CSP
LJB Inc.- Principal
3100 Research Blvd.
Dayton, OH 45420
United States of America

ARE YOU SPENDING TOO MUCH ON PROCESS DESIGN SAFETY?

This paper demonstrates how acceptable safeguards can be implemented without incurring significant expenditure for a gas processing and underground storage facility. Safeguards are identified using qualitative, semi-quantitative and quantitative risk analysis techniques. A right balance between adequate safeguards and cost justification for additional safety features could be done by demonstrating risk As Low As Reasonably Practicable (ALARP). Merits and demerits of the ALARP approach are also presented in this paper.

Dr. Tony Clark
Process Improvement Institute, Inc.
1938 Riversound Drive
Knoxville, TN 37922
United States of America

IS SAFETY A COMMON SENSE? A SYSTEMATIC APPROACH TO SAFETY FOR PROJECT MANAGEMENT AND CONSTRUCTION

The risks in any project can be well controlled by good and constant safety management. Effective safety management depends greatly on the common understanding of the risks by the project team and coworkers. This paper will show that project

management concepts which seem to be unrelated are in fact related. In addition, the paper will explain how these concepts are managed to help the project teams in meeting their goals and targets.

Mr. Ahmed H. Al-Jaafar
EHS Regional Manager
GE Energy Power Services
Al-Saeed Business Tower
6455 King Fahad Road, Al-Rakah Unit 3
Al- Khobar 34227-2420
Saudi Arabia

SESSION 12

THE S.O.S. SYSTEM® COMBINING HAZARD RECOGNITION AND BEHAVIORAL OBSERVATION

Companies should consider using one continuous thought process from task inception, planning, and hazard recognition through behavioral observations. The S.O.S. System® was originally designed for BP to assist employees in perfecting a Job Safety/Hazard Analysis or conducting a pre-job meeting. It is also used for performing behavioral observations. The S.O.S. System® is icon-based and easy to learn and participate in, and works in any language. Data are collected and disseminated through the included Tracking and Trending process.

Mr. Wayne P. LeBlanc
President & CEO
W C Safety Systems International, Inc.
8805 Tanglewild Place
New Orleans, Louisiana, 70123
United States of America

Technical Sessions

SH&E LEADING AND LAGGING INDICATOR DYNAMICS

So we are all safety, health and risk professionals but do manage our performance based on a set of defined SH&E performance indicators which are aligned with our corporate objectives, targets and strategy? Should we use leading or lagging SH&E indicators or a combination of both? Do these risk indicators give your company the data required to report our Social performance in the international market? This paper discusses how to develop, build and implement a Leading and Lagging SH&E indicator program through a Balanced Scorecard approach which can in turn be thought of as the "strategic chart of accounts" for an organization. It captures both the financial and the non-financial elements of a company's strategy, leading and lagging indicators and discusses the cause and effect relationships that drive business (SH&E) results.

Mr. Troy O' Connor
Managing Director - Easy Risk Solutions Pty. Ltd. & Business Development Executive - IRCA Middle East KSA Operations

THE EMBEDDED SAFETY COACH: A GLOBAL SOLUTION TO LOCALIZED CHALLENGES

Large-scale multinational organizations face unique safety challenges not present in small, regional organizations. Continued success requires consistency across key safety elements and an eye for site specific safety strategies. An Embedded Safety Coach provides global support through a partnership between the organization and the regional worksite ensuring safety practices of the regional site are aligned with the global safety vision. This paper explores the need for an Embedded Safety Coach and why the concept proves to be a best safety practice for global organizations. Also presented are seven proven hallmarks that exemplify a successful safety coaching relationship.

Mr. Brad Brewster
*President
Arkansas ASSE Chapter*



**TUESDAY FEBRUARY 23, 2010
15:30 – 17:30**

SESSION 13

FALL PROTECTION OVERVIEW: ANSI Z359 STANDARD

Learning how to minimize the risk of potentially dangerous or fatal fall hazards allows organizations to take a proactive approach to worker safety. This paper provides an overview of effective fall protection programs, giving participants proven strategies for identifying, evaluating and controlling fall hazards. All information presented will be in accordance with the ANSI Z359 family of fall protection standards. Falls impact the quality of life for the worker and the bottom line for the company. Common fatal misconceptions about fall protection are that with fall safety precautions in place, it is harder to work, it slows down work activity, and it is too difficult to implement. Regulations clearly are not enough, because after 70+ years of standards, rules and regulations workers are still falling to their deaths. This presentation will include additional background on current fall protection standards, regulations, statistics and trends, before outlining critical elements of a fall protection program. The information presented is organized around the guidelines and requirements for managed fall protection programs, as published in the ANSI Z359.2-2007 standard. This is the only fall protection standard in the world that comprehensively addresses these issues. Key topics include fall hazard assessments, hazard evaluation and abatement, fall protection training, rescue planning and program evaluation. General

Technical Sessions

information about fall protection equipment will also be provided, including equipment components, system development, anchorages, and clearance requirements.

Mr. Thomas E. Kramer, P.E., CSP
*LJB Inc. - Principal
3100 Research Blvd.
Dayton, OH 45420
United States of America*



IDENTIFYING CONFINED SPACES

Some facilities may not have confined spaces and are not concerned about confined space entry. However, all facilities should be assessed for the presence of confined spaces. This paper will discuss the proof of the need, some definitions, the identification process, and the documentation of the process.

Mr. Warren K. Brown, CSP, ARM, CSHM
*1855 Campus Dr
Fairborn, Ohio 45324
United States of America*



TRAFFIC SAFETY IN SAUDI ARAMCO

Traffic accidents are the leading cause of off-the-job accidental death among employees at Saudi Aramco. The company's Industrial Security Organization (ISO) has been actively attempting to change driver behavior and improve safety through a combination of public education, stricter enforcement in Saudi Aramco facilities, and cooperation with the Kingdom's traffic authorities. This paper describes the complex issues faced by ISO and the methods used to accomplish the goal of accident-free driving in the Kingdom of Saudi Arabia.

Mr. Abdullah M. Al-Harbi
*Dhahran Area Industrial Security Operations Dept.
Saudi Arabian Oil Company (Saudi Aramco)
Dhahran, Saudi Arabia*



SESSION 14

IMPLEMENTING A CORPORATE ELECTRIC ARC FLASH SAFETY PROGRAM

This paper describes the components of Saudi Aramco's corporate program to provide consistent safe work practices for protection of personnel against electrical arc flash hazards. The arc flash safety program addresses the application of arc flash energy calculations, labeling of existing electrical equipment, operation and maintenance safe work procedures, personal protective equipment, worker certification, and training amongst other components.

Mr. Abdullah M. Al-Zahrani
*Electrical Engineer, IEEI & SSSEE
Saudi Arabian Oil Company (Saudi Aramco)
Dhahran, Saudi Arabia*



TRAINING ELECTRICAL ENGINEERING AND MAINTENANCE EMPLOYEES TO BE QUALIFIED

This paper discusses the training and qualification of electrical engineering and maintenance employees needed for a safe and efficient work force. Components necessary to developing a comprehensive training program will be highlighted including the needs assessment and the job/task and hazard analysis.

Technical Sessions

Mr. Dennis K. Neitzel, CPE

Director
AVO Training Institute, Inc.
4271 Bronze Way
Dallas, Texas 75237-1019
United States of America



PRACTICAL ENGINEERING SOLUTIONS FOR CONTROLLING ARC FLASH HAZARDS

Exposure to electrical arc flashes often results in a variety of consequences ranging from minor burns to fatality. Arc flash hazards can be well controlled by maintaining a safe distance between electrical workers and sources of arc flashes, limiting the arc flash energy, or containing the hazards away from the work environment. This paper will focus on various engineering solutions to mitigate the hazards of arc flash for personnel working around electrical equipment.

Mr. Ahmed A. Al-Sufyani

IEEE Member
Saudi Arabian Oil Company (Saudi Aramco)
Dhahran, Saudi Arabia



SESSION 15

IMPLEMENTING INHERENT SAFETY

This paper will examine the concept of inherent safety and present methods for systematically analyzing the potential for inherent safety and in effectively implementing it within the organization. The goal is to influence the future state of chemical process evolution by illustrating and emphasizing the merits of integrating process research, development, and design into a comprehensive process that balances safety,

capital, and environmental concerns throughout the life cycle of the process. The authors managed the project to help influence the next generation of engineers and chemists as well as current practitioners and managers in the field of chemical processing. In general, the strategy for reducing risk, whether directed toward reducing the frequency or the consequences of potential accidents, can be classified into four categories such as Inherent, Passive, Active, and Procedural.

Mr. David Moore

President
AcuTech Consulting Group
2001 North Beauregard Street
Suite 100, Alexandria, VA 22311
United States of America



PROTECTION OF OIL AND GAS INSTALLATIONS AGAINST FIRES

Steel structures and components should be designed and constructed such that they maintain their load bearing function during the design fire condition and any structural failure occurs in an inherently safe manner. This paper summarizes the eleventh technical note by the Fire and Blast Information Group (FABIG) by further simplifying procedures for estimating fire loads, new data for the mechanical properties at elevated temperature for structural stainless steels, and guidance on the application of the Eurocode approach to structural steel fire resistant design to offshore steel structures.

Mr. Fadi Hamdan

Middle East and North Africa (MENA) FABIG representative
Managing Director, Market Opportunities
Location



Technical Sessions

TECHNICAL CONSIDERATIONS IN SELECTION OF OILY WATER SEPARATORS IN THE TERMINALING INDUSTRY

The petroleum terminal business operates in a highly competitive market making it important to effectively utilize resources. Hence, drainage systems and Oil Water Separator (OWS) systems are required to be robust, easy to operate, and economical. In order to accomplish this goal, the drainage system must be properly planned and designed and the OWS selected based on sound criteria.

P. Radhakrishnan, BTech ChE, MS ChE, MAIChe

Emirates National Oil Company Limited (ENOC) LLC
ENOC House I, PO Box 6442
Dubai, United Arab Emirates

Waddah S. Ghanem, BEng, DipSM, DipEM, MSc, MBA, AMEI

Chief EHSQ Compliance Officer
Group EHSQ Compliance Manager
Group EHSQ Compliance Department
Emirates National Oil Company Limited (ENOC) LLC
ENOC House I, PO Box 6442
Dubai, United Arab Emirates



SESSION 16

RESPONSIBLE CARE -- INTEGRATING SECURITY WITH QHSE

This paper presents the development and integration of a Responsible Care Management System into the SabTank Integrated Management System, making Sabic the first company in the region to take on such an initiative. The paper gives an insight on the

establishment of security-related goals based on a Security Vulnerability Assessment.

Mr. Tahir Jamal Qadir

Chief, Quality and Audits
SABIC Terminal Services Company – SabTank
PO Box 10135
Jubail Industrial City 31961
Saudi Arabia



SCHEME OF WORLD-CLASS QUALITY SAFETY

Implementing a quality safety program will enable the organization to meet the challenges of the global economy. Moreover, it will improve the organization financial base with a return of \$4 to \$6 for every \$1 spent in a safety program investment. This paper will discuss the integration of quality and safety in the Safety Management System (SMS), the critical success factors of SMS, the strategic quality approach for SMS deployment, and the payback of adopting the safety system for the organization.

Mr. Yasser Mubarak Al-Mowalad

Yanbu Fractionation Department
Saudi Arabian Oil Company (Saudi Aramco)
Dhahran, Saudi Arabia



SH&E MANAGEMENT AT WEST KUWAIT OIL FIELDS OF KUWAIT OIL COMPANY, KUWAIT

One of the essential objectives of Kuwait Oil Company (KOC) business strategy that aims for continuous development is its commitment to Safety, Health and Environment (SH&E) in the company business. This

Technical Sessions

paper underlines the developments accomplished as a result of implementing SH&E in West Kuwait (WK) asset in terms of leading and lagging indicators and discusses the methodology of SH&E implementation in KOC including the West Kuwait asset. Also, it presents the initiatives employed to achieve an acceptable level of SH&E risk and highlights the initial steps taken in SH&E implementation such as involving top management in WK tours and establishing an Integrity Management Committee.

Mr. Kaushik Roy

Senior Safety Engineer, HSE (West Kuwait)
Kuwait Oil Company
Kuwait

WEDNESDAY FEBRUARY 24, 2010
10:30 – 12:30

SESSION 17

NEGLIGENT EMPLOYEES... A PERSONAL JOURNEY ACROSS 5 CONTINENTS

Despite improved investigation tools and techniques, international trends still reflect concerns raised since the early eighties, namely: the limited resources allocated to High Potential (HIPO) incident investigations. It appears that there remains a direct quality correlation determined usually by the actual severity of the incident, as opposed to the potential severity. This paper will address the details of this issue in an informative useful format.

Mr. Wayne Basson

Enterprise Risk Solutions Group Ltd.
2 Brandy Crt., Eatons Hill
Brisbane QLD, 4037
Australia

THE STUDY OF NEAR MISSES AND KNOWLEDGE MANAGEMENT IN MATURE INDUSTRIES

In mature industries a terrific knowledge about safety is hidden in regulations, standard codes and good practices, as well as in proprietary procedures. The study of near misses may be used to rediscover and to revive this knowledge. Internal proprietary knowledge and external public domain knowledge have been discriminated. The right pieces of procedures and semantic search were used for both proprietary and external knowledge, respectively.

Dr. Paolo A. Bragatto

Centro Ricerche ISPESL
via Fontana Candida 1
00040 Monteporzio Catone
Roma, Italia

NEW APPROACH TO ENHANCE LEARNING FROM NEAR MISS INCIDENTS

Near miss incidents form the basis of Heinrich's domino theory which is free lessons learnt incidents. Reporting of near miss incidents is an important tool in preventing incidents. These are incidents which had potential but resulted in no injury/illness, damage, production loss, or harm to company reputation. It will address the various methods being used in different industries to overcome the barriers in near miss incident reporting to enhance the safety factor of an organization.

Mr. N. Vasudevan, CSP

Safety Engineer - Mina Ahmadi Refinery
Kuwait National Petroleum Corporation
Kuwait

Technical Sessions

Mr. Dinesh Kumar Dutta, CSP

Sr. Technical Support Engineer
Oil Sector Services Company (OSSC)
Kuwait Petroleum Corporation
Kuwait

SESSION 18

ENHANCING SAFETY THROUGH PREVENTIVE MAINTENANCE

Preventive maintenance is performed because of its known advantage in improving the integrity and reliability of equipment. Such improvement is considered to be a very helpful tool in guaranteeing safety, and that is why it is performed on critical equipment. Valves are significant elements for both operation purposes as well as safety. Valves' PM is essential from a safety perspective as it enhances their integrity, which results in avoiding emergency shutdown due to valve failures or leaks that can be a production loss or a potential hazard.

Mr. Mousa R. Al-Harbi

Valves Engineering Specialist
Consulting Services Department
Saudi Arabian Oil Company (Saudi Aramco)
Dhahran, Saudi Arabia

CHALLENGES OF WELL INTEGRITY MANAGEMENT IN ENHANCED OIL RECOVERY PROJECTS – GAS INJECTION PROCESS (CO₂)

The remaining oil reserve from the wells that have been depleted due to considerable exploitation can be produced using the Enhanced Oil Recovery (EOR) methods. One of these methods is gas injection which has proved to be economically viable. However,

certain safety and operational requirements have to be met by special treatment of gas injection wells. This paper will elaborate the major challenges encountered in the operation of such projects.

Dr. Mohammad Amin Shoushtari

M.Sc. Petroleum Engineering
Improved Oil Recovery Research Institute
Tehran, Iran

IMPLEMENTING PRE-STARTUP SHE REVIEW IN NEW FACILITY (PLANT)

Pre-Startup SHE Review (PSSHER) is an essential element for a successful process safety program especially in the petrochemical business. It ensures that the system of the new facility has the necessary safety measures for a safe and successful startup. This paper will demonstrate the importance of such review and will describe the review team formation and objective, the review requirements and methodology, teams structure, and reporting. This will be based on an actual experience in conducting a PSSHER in one of Ibn Rushd new plants.

Mr. Ahmed M. Ajabnoor

Industrial Security & Environment Manager,
Executive
Arabian Industrial Fibers Company (A SABIC Affiliate)
PO Box 30701
Yanbu Industrial City 21477
Saudi Arabia

Technical Sessions

SESSION 19

HUMAN FACTORS ELEMENTS MISSING FROM PSM

Process safety is about controlling risk of failures and errors; controlling risk is primarily about reducing the risk of human error. All elements of Risk-Based Process Safety (RBPS) and alternative standards for process safety (such as US OSHA's standard for Process Safety Management [PSM] or ACC's Process Safety Code™ [PSC]) have many elements, and each of these in turn help to reduce the chance of human or else help to limit the impact of human error. But each process safety standard has some weakness in the control of human error. This paper outlines a comprehensive process safety element on Human Factors and compares the sub-elements for human factors control with the existing elements of RBPS, PSC, and PSM. It describes what belongs in each sub-element of Human Factors and explains the intent, content, and the benefit of each sub-element. The paper also presents examples of where Human Factors sub-elements have been properly and improperly implemented and discusses the problems faced during implementation. Selected examples of industry practices for human factors control are provided.

Mr. William Bridges
Process Improvement Institute
1938 Riversound Drive
Knoxville, TN 37922
United States of America

REFINING PROCESS SAFETY KEYS TO A SUCCESSFUL PROGRAM

Process Safety is a 20-year old concept. But unless it is properly understood and effectively applied, a plant catastrophe may be looming just around the corner – waiting for the right combination of failures to make its appearance. Management often feels secure when they have systems in place that address the many processes associated with safety. When loss occurs,

the company decides to take a closer look to see if systems in place are working in the way they were designed.

Mr. Andrew P. Bartlett
Refining Safety Coordinator
Refining & NGL Fractionation Technical Support Division
Saudi Arabian Oil Company (Saudi Aramco)
Dhahran, Saudi Arabia

Mr. Thomas R. DiGiacomo Refining Consultant
Ras Tanura Refinery Engineering Department
Saudi Arabian Oil Company (Saudi Aramco)
Dhahran, Saudi Arabia

CASE STUDY FOR STREAMLINING SYSTEMS AND ESTABLISHING A PROCESS SAFETY CULTURE WITH CURRENT DAY TECHNOLOGY

This paper presents a leading edge information system that is utilized for process safety management systems. The paper discusses one plant's experience going fully electronic on all process safety management systems including a management of change workflow system. Detailed information on hurdles and gains from implementation are provided. The presentation will focus on a specific example of implementing a very no-nonsense, practical software solution for streamlining management of process safety systems.

Mr. Henry Ozog
General Partner
ioMosaic Corporation
93 Stiles Road
Salem, NH 03079
United States of America

Mrs. Judy Perry
Dr. Partner

Technical Sessions

ioMosaic Corporation
93 Stiles Road
Salem, NH 03079
United States of America

Dr. Georges Melhem
Managing General Partner
ioMosaic Corporation
93 Stiles Road
Salem, NH 03079
United States of America

SESSION 20

AT THE HEART OF SAVING LIVES – SHOCKINGLY OBVIOUS!

Heart disease is the biggest killer in the world. Every year some 460,000 people die in the USA from sudden cardiac arrest (SCA). A significant number who are at risk from SCA die in the workplace. While cardio-pulmonary resuscitation (CPR) is a vital component in the management of the SCA patient, the only definitive treatment is early defibrillation. The placement of automated external defibrillators (AEDs) within the workplace can increase survival rates and save lives.

Mr. Steve Jelfs
International Marketing Manager, Defibrillation
Cardiac Science Corporation
13 Provost Hunter Avenue
Alva, FK12 5PE
United Kingdom

A COMPARISON OF INDICES FOR PREDICTING HEAT STRESS OF UAE CONSTRUCTION WORKERS

The objective of this paper was to compare the

predictive capacity of the Thermal Work Limit (TWL) with the most commonly used international heat stress index (WBGT) for environmental risk assessment and to correlate this with physiological responses of thermally stressed workers. A prospective longitudinal study was undertaken of building construction workers in Al Ain. TWL and WBGT were calculated from environmental measurements and used to assess stress. TWL readings were a better indication of the physiological parameters measured.

Dr. John Schneider
Specialist in Occupational Medicine
Department of Community Medicine
UAE University
PO Box 17666, Al-Ain
United Arab Emirates

A PRACTICAL APPROACH TO HEAT STRESS AT ENOC'S DUBAI INTERNATIONAL AIRPORT REFUELING OPERATIONS

A heat stress and hydration survey was conducted at ENOC Aviation, Dubai International Airport. Heat stress was assessed using Thermal Work Limit (TWL) and compared with Wet Bulb Globe Temperature (WBGT). New hydration methods were tested against existing methods, including wearable hydration packs and commercially available rehydration powder. Recommendations for work within reported TWL zones and managing risks of heat stress are given.

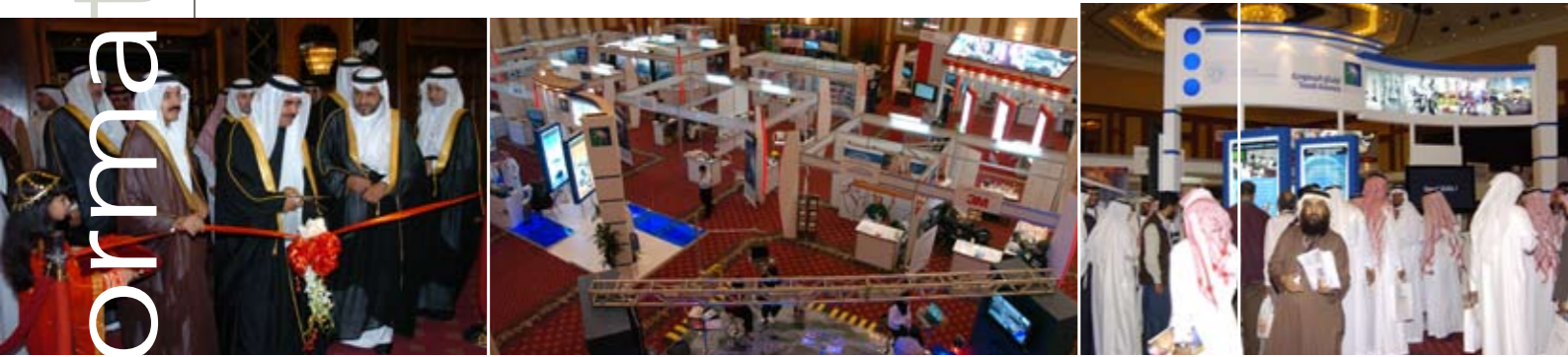
Mr. Fraser Lindsay
Sr. Industrial Hygienist
Emirates National Oil Company Limited (ENOC) LLC
United Arab Emirates

General Information

Exhibition

The 9th Professional Development Conference and Exhibition offers a rare opportunity to meet with a high quality audience in the professional atmosphere of a focused, educational, and networking conference. An audience of more than 1000 wants to make the most of their investment and learning about what your company offers can become a valuable part of this process.

The exhibition halls have very limited spaces left. Companies interested in exhibiting must immediately contact:



Ahmed Y. Al-Dossary

Tel.: +966 3 8728670
Fax: +966 3 8727530
Mobile: +966 50 9994553
dossay0f@aramco.com

Conference Venue

The conference and exhibition are to be held at the Gulf International Convention & Exhibition Center (GICEC). The GICEC is the largest and most impressive complex in Bahrain. It is located within the grounds of the Gulf Hotel and is a showcase of professionalism offering every facility and resource support for mounting any type of event to the highest standards.

General Information

About Bahrain

Bahrain is a beautiful island with nearly half a million friendly inhabitants. It has a total area of about 700 Km². Bahrain has historically been known as Delmon, Tylos and Awal. Bahrain's strategic location provides easy access from all parts of the world, with daily flights to its airport. With simple visa and entry regulations, services and recreation facilities, Bahrain is becoming the leading center for conference and exhibitions.

Climate

The climate of Bahrain during the period of the conference is expected to be pleasant with an average temperature between 16 and 21C^o



Visa Requirements

Visas to Bahrain are required by all except:

- Passport holders of AGCC (Arabian Gulf Cooperation Council) States, (i.e, nationals of Kuwait, Oman, Qatar, Saudi Arabia and the United Arab Emirates).
 - Citizens of the UK for a maximum of 4 weeks (they must hold a passport with at least 6 months validity). For other nationalities, 72-Hours Visa or 7-days visa can be obtained on arrival at the Bahrain International Airport or at the King Fahad Causeway. These visas are mainly intended for business visits, trade delegations, attending exhibitions and seminars. Apart from the passport, the passenger must possess a confirmed return or onward journey ticket for his/her visa application to be processed. Foreign nationals who have lived for six months in a GCC State are automatically granted a 72-hours visa on arrival.
- fee: 72-hours Visa - BD.10, 7-days visa BD.15.

For assistance in applying for a visa to Bahrain, please call the hotel where you will be staying. For more information, you may check: <http://www.evisa.gov.bh/>

General Information

General Information

Hotels Information

Hotel Booking Guidelines:

- ❑ To make your hotel reservation, send a request to your preferred hotel directly.
- ❑ To make advantage of the reduced rate, advise the hotel that you will be attending the ASSE-MEC conference.
- ❑ In order to confirm your hotel accommodation your reservation must be received by the hotel, before January 15th, 2010.
- ❑ After January 16th, 2010, reduced rates cannot be guaranteed, and your room reservation will be subject to availability.
- ❑ All hotel rates are subject to 15% service charge, and 5% Government levy.

Gulf Hotel

Tel.: (973) 1771 3000
 Fax: (973) 1771 3040
 Email: ghbc@batelco.com.bh
 Website: <http://www.gulfhotelbahrain.com/>



Ritz-Carlton Hotel

Tel.: (+973) 17580000
 Fax: (+973) 17580333
 Toll Free no. 800 89 71
 Website: <http://www.ritzcarlton.com/en/properties/bahrain/default.htm>



Hotels Information

Sheraton Hotel

Tel.: (+973) 17 533533
 Fax: (+973) 17 534069
 Email: reservations.manama.bahrain@sheraton.com
 Website: <http://www.bahraintourism.com/sheraton/>



Crowne Plaza Hotel

Tel.: (+973) 17531122
 Fax: (+973) 17530154
 Email: cp@cp-bahrain.com
 Website: <http://www.cp-bahrain.com/>



The Diplomat Blu Hotel, Residence & Spa

Tel.: (+973)17 531666
 Fax: (+973)17 530843
 Email: Sales.Diplomat@Radissonblu.com
 Website: <http://www.radissonblu.com/diplomathotel-bahrain>

Hotels Information

Hotels Information

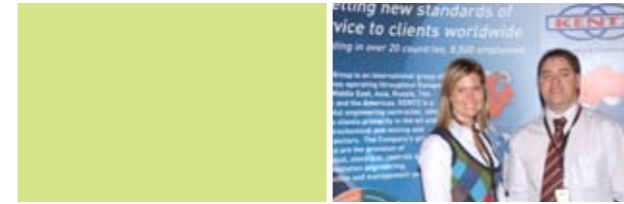
Conference Night Out

Conference Night Out:

Similar to previous years, the Organizing Committee of this 9th Professional Development Conference and Exhibition is planning a night out for interested participants packed with all of the traditions that have made the Kingdom of Bahrain famous. More details and registration for this "Conference Night Out" will be announced during the conference.



Conference Gallery



Conference Night Out

Conference Gallery



Registration

Registration Guidelines

- Please complete the Registration Form fully for each participant.
- If you plan to attend a pre-conference workshop in addition to the conference, the Registration Form must be received by January 31, 2010. After that date, workshop registration will be subject to availability.
- Although you can only attend one workshop, you must select three workshops and prioritize them in the Registration Form. ASSE-MEC will do its best to register in your first selection.
- To be eligible for early registration fees, the Registration Form and full payment must be received on or before December 31, 2009.

CONFIRMATIONS

All registrants will receive a confirmation within approximately one week of registration. Please review your confirmation and contact us with any discrepancies.

CANCELLATION AND REFUND POLICY

- All cancellation requests must be received in writing. Written cancellation requests received before January 31, 2010 will be subject to 50% administration charges.
- No refund will be made for cancellation requests received after January 31, 2010.
- All refunds will be made following the conference completion.

DELEGATE ENTITLEMENTS

Each participant will be entitled to:

- Conference Package
- Admission to all conference halls and exhibition
- Coffee Breaks
- Lunches and a Complimentary Night Out
- Attendance Certificate

REGISTRATION OPTIONS AND FEES:

Registration Options	Fees (in US Dollars)		
	Before Dec 31, 2009	After Dec 31, 2009 & before Jan 31, 2010	After Jan 31, 2010
OPTION # 1: Pre-Conference Workshop + Conference (5 days) Feb 20-24, 2010	\$1,800	\$2,000	\$2,200
OPTION # 2: Conference only (3 days) Feb 22-24, 2010	\$800	\$1000	\$1200

- Students can register for the conference only with a discounted fee of \$300

REGISTRATION OFFICE:

If you require any further information, please contact the registration office on +966 3 872-9638 or send an email to Registration@asse-mec.org.

Registration Form

9th Professional Development Conference & Exhibition, February 20-24, 2010, Bahrain

PLEASE REVIEW THE REGISTRATION GUIDELINES CAREFULLY BEFORE COMPLETING THIS FORM

Three easy ways to REGISTER:

- | | | |
|---|---|---|
| <input type="checkbox"/> Online:
www.asse-mec.org | <input type="checkbox"/> Mail:
ASSE-MEC
P. O. Box 941
Dhahran 31311, Saudi Arabia | <input type="checkbox"/> Fax:
+966 3 872-9751 |
|---|---|---|

Registrant Information (Please type in block letters)

First Name Middle Initial Last Name

Company Name

Address

City Postal Code Country

Email

Fax: Phone

Registration: (Select either Option #1 or Option #2)

- OPTION # 1:** Pre-Conference Workshop + Conference (5 days) Feb 20-24, 2010

Please select three workshops from the list below, and prioritize them: (you can only attend one)

➔ Priority 1: Workshop # Priority 2: Workshop # Priority 3: Workshop #

1. Management Of Change (MOC)	7. Effective Fall Protection Programs	13. Six Sigma Safety: Establishing World-Class Continuous Improvement
2. Layer of Protection Analysis (LOPA)	8. Communicating Risk and Dealing with Crisis Communications	14. Emotional Intelligence
3. What You Should Know About Electrical Safety	9. Leading with Safety – Your Roadmap to an Injury-Free Culture	15. Contractor Safety, Health & Environment (SH&E)
4. Fire & Safety Inspections	10. The Definitive Art of Behavior Change	16. Smoking Cessation Counseling
5. Root Cause Analysis (RCA)	11. Risk Assessment (RA)	17. Risk Assessment and Management of Health Risks at the Workplace
6. The S.O.S. System® Combining Hazard Recognition and Behavioral Observation	12. Conducting Security Vulnerability Assessments	18. Job Safety Analysis (JSA)

- OPTION # 2:** Conference only (3 days) Feb 22-24, 2010

Payment Methods

<input type="checkbox"/> BANK TRANSFER (in US\$ only) You must fax a copy of your receipt to +966 3 872-9751	<input type="checkbox"/> CHECK	<input type="checkbox"/> INVOICE MY COMPANY
National Commercial Bank Saudi Aramco, Dhahran, KSA Account: 05322244000106 Swift Code: NCBKSAJE IBAN#SA1210000005322244000106	Payable to: American Society of Safety Engineers – MEC	For invoicing, please send completed Registration Form(s), and your request for invoice using <u>company official letterhead.</u>

For ASSE-MEC OFFICIAL USE:

Processed by Date Registration #