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The WSO's purpose is to internationalize all safety fields, including occupational and environmental safety and health, accident prevention, etc., and to disseminate throughout the world the practices, skills, arts, and technologies of the safety and accident prevention fields. With worldwide membership in the thousands, the WSO is undergoing a strong growth period. With individual referrals and recommendations from WSO members, there is continuous growth in membership and the pool of professionals seeking the WSO certifications.

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1987: Reorganized and relocated to Missouri, USA; World Management Center established in Missouri, USA **1997**: WSO granted Consultative Status Category II (NGO) to the UN ECOSOC

2017: WSO Certification Program accredited in compliance with ISO/IEC 17024:2012 by ICAC

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Ballard Safety, LLC Perry L. Ballard, Owner

Ballard Safety LLC is a full-service Safety Audits & Inspections, Environmental Services, On-site Safety Training, Health/Safety Program, Technical Safety Subject Matter Expert, and Emergency Preparedness firm focused on helping our clients meet their compliance requirements. Our core competencies provide our clients with a full set of safety services needed for them to be successful. We are able to provide a select group of highly qualified safety professionals and services to our clients in any industry nationwide.



Stephen S. AustinWSO-CSI(ML), CSHO
Site Safety Lead, Missile Defense
Agency; Alabama, USA

An Alabama (USA) native, Steve Austin completed his Bachelor's degree in Business Information Systems and Quantitative Analysis at Mississippi State University, where he also was commissioned through the U.S. Air

Force Reserve Officer Training Corps. Mr. Austin has over 26 years' safety experience which includes his current position as Site Safety Lead with the MDA. He is a Certified Safety and Health Official (CSHO) in Industrial Safety through TEEX (Texas A&M Engineering Extension Service) and is a WSO Certified Safety Instructor (Master Level).

Millennials and Safety: The Employment Game

Abstract: The world is painting a new, younger masterpiece as the work culture has changed. Millennials in the workplace is a fact. Currently, Millennials are already the largest segment in the U.S. workforce. Within the next two to three years, fifty percent of the U.S. workforce is expected to be made up of Millennials; it will be seventy-five percent by 2030, according to the U.S. Bureau of Labor Statistics (October 9, 2018). Attracting, training, and retaining Millennials in the workforce is not difficult, so it appears on social media. In retrospect and in reality, loyalty and longevity are terms of the past. By examining employment, training, and retention tips about our next potential safety professionals and the game plan needed to draw young professionals into and retain them in the safety profession, we become the learners about Millennials. This presentation will attempt to explain the safety stigma of "everyone needs safety, but no one wants to do safety as a job" in the Millennial world.



Perry L. BallardWSO-CSE/CSM, JD, MS, CSHM
Owner, Ballard Safety LLC;
West Virginia, USA

Perry L. Ballard, WSO Board of Directors (Martinsburg, West Virginia), has been a WSO member since 2000. He is the founder of Ballard Safety LLC, and has over 20 years of experience working with govern-

ment agencies, commercial/construction industries, and manufacturing companies. His goal is to reduce potential occupational injuries, OSHA, EPA citations, workers compensation claims, and general liability concerns by completing appropriate safety and environmental inspections with detailed resolutions. Perry was named WSO's 2017 Safety Person of the Year. In addition to his WSO-CSE/CSM designations, Perry also holds the following degrees/certifications: Masters Degree in Safety Management from West Virginia University; the CSHM designation from the Institute for Safety and Health Management; OSHA 501 General Industry Outreach Trainer; Professional Member of the American Society of Safety Engineers; and a member of the National Safety Council. He has served as a Safety Expert Witness/Subject Matter Expert on more than 50 occupational injury cases. Ballard Safety, LLC, became a Certified Small Business Administration (SBA) 8(a) Minority-Owned Business in May 2012.

1910:132-138 Personal Protective Equipment

What is personal protective equipment? Personal protective equipment, commonly referred to as "PPE," is equipment worn to minimize exposure to hazards that cause serious workplace injuries and illnesses. These injuries and illnesses may result from contact with chemical, radiological, physical, electrical, mechanical, or other workplace hazards. Personal protective equipment may include items such as gloves, safety glasses and shoes, earplugs or muffs, hard hats, respirators, or coveralls, vests and full body suits.

What can be done to ensure proper use of personal protective equipment? All personal protective equipment should be safely designed and constructed, and should be maintained in a clean and reliable fashion. It should fit comfortably, encouraging worker use. If the personal protective equipment does not fit properly, it can make the difference between being safely covered or dangerously exposed. When engineering, work practice, and administrative controls are not feasible or do not provide sufficient protection, employers must provide personal protective equipment to their workers and ensure its proper use. Employers are also required to train each worker required to use personal protective equipment to know:

- When is it necessary?
- What kind is necessary?
- The limitations of the equipment
- How to properly put it on, adjust, and take off
- Proper care, maintenance, useful life, and disposal of the equipment

If PPE is to be used, a PPE program should be implemented. This program should address the hazards present; the selection, maintenance, and use of PPE; the training of employees; and monitoring of the program to ensure its ongoing effectiveness.



Gail Brandys

MS, CSP (retired), MG President, Occupational & Environmental Health Consulting Services, Inc.; Nevada, USA

Gail Brandys has a Masters Degree in Industrial Safety Management from Northern Illinois University and a BS in Secondary Science Education from the University of

Delaware. She is a retired Certified Safety Professional, Certified Indoor Environmental Consultant and Asbestos Inspector/Management Planner.

She has been involved in safety and health consulting for industry, colleges and training institutions for over 35 years. She has developed and conducted safety training sessions for client companies in both English and Spanish on a wide variety of topics. Gail taught EPA-accredited asbestos training classes regularly for over 25 years. She is also a Master Gardener in southern Nevada and teaches gardening safety, ergonomics, and plant toxins to various garden clubs and fellow Master Gardeners. She has co-authored five books on environmental safety and health topics with her husband, Dr. Robert Brandys.

Plant Cultivation in a Desert Climate: Toxic Plants. Toxic Environment

Abstract: "We all know that gardening in the desert is quite a challenge! Besides the heat, low rainfall and poor soil, we have spiny and toxic plants, as well as harmful fungi and hazardous minerals in the soil. Gail Brandys, a Master Gardener and Safety Professional, will review some of the physical, chemical and biological hazards that are most common for gardeners in desert climates and provide helpful hints on how to protect yourself, your family, and your pets.

Plant Cultivation Ergonomics: Work Smarter, Not Harder

Abstract: Working smarter not harder certainly applies to plant cultivation. Whether you are planting, pruning, harvesting or doing maintenance, there may be a better way to accomplish your tasks. Gardening ergonomically isn't just about the tools you use, rather, it is a system. Ergonomic gardening doesn't just apply to the elderly or those with physical limitations – it is important for everyone. Come join Master Gardener Gail Brandys, a Certified Safety Professional and President of Occupational and Environmental Health Consulting Services, as she discusses tips, tools and techniques to make small scale plant cultivation more enjoyable while putting less stress on your body. Presentation includes a demonstration of ergonomic gardening tools.



Dr. Robert BrandysPhD, MPH, PE, CIH (retired), CSP (retired)

Senior Advisor, Occupational & Environmental Health Consulting Services, Inc.; Nevada, USA

"Dr. Bob" is a senior advisor for OEHCS, Inc. in Las Vegas, NV. He has a Ph.D. in Environmental Safety and Health, a Masters in

Public Health, and degrees in thermomechanical and environmental engineering. He is a Registered Professional Engineer, a Certified Industrial Hygienist, and a Certified Safety Professional.

He has over 40 years of experience in the safety and environmental field. He worked as a corporate safety manager for major healthcare corporations for over 15 years. He was President of his own environmental consulting firm from 1984 to 2011.

Dr. Bob has authored and co-authored numerous publications including "Worldwide Exposure Standards for Mold and Bacteria," "Post-Remediation Testing and Verification of Mold and Bacteria Remediation Projects," "Global Occupational Exposure Standards for Over 6,000 Chemicals," "International Indoor Air Quality Standards for Over 2,000 Chemicals and Biological Substances," and "In-Field Test Methods and Reference Standards for Portable High Efficiency Air Filtration (PHEAF) Devices"

Update of Latest Occupational Exposure Limits: DNELs, TEELs and Others

Abstract: Over the past 10 years, the European Union has required chemical suppliers to develop occupational exposure limits for the major chemicals used in commerce. This applied to over 3,000 chemicals.

These new DNEL (Derived No Effect Level) occupational exposure limits where to be based on current science and not previ-

ous OEL standards. These health effects-based standards include both long-term and short-term exposures.

The result is the most up-to-date toxicological evaluation of chemical exposure effects for workers and recommended exposure limits.

In the US, a similar toxicological review of the effects of chemicals has been conducted by the Department of Energy for over 100,000 workers in DOE facilities.

Unfortunately, US industries and many other countries have not embraced these up-to-date recommended exposure limits.

This presentation compares these two sets of exposure limits to current ACGIH TLVs and other chemical standards.

DOP Testing of HEPA Filters: Is There a Problem?

Abstract: HEPA-filtered equipment is an important engineering control used in a wide variety of industries including asbestos abatement, lead mitigation, mold remediation, pharmaceutical cleanrooms and the nuclear industry.

Research on portable HEPA-filtered equipment at the National Institutes of Health over the past 5 years has shown significant performance problems with this equipment. It cannot be assumed that because a piece of equipment contains a HEPA filter that the device filters the air at HEPA effectiveness.

This research additionally has shown that the standard method for evaluating HEPA-filtered equipment – the DOP aerosol method – has inherent limitations. This equipment is useful for finding the locations of leaks in the HEPA filter media but may not be appropriate for assessing overall effectiveness of the HEPA-filtered unit.

This research also showed that portable HEPA-filtered equipment needs to be regularly tested to ensure its effectiveness at removing hazardous particulates from the air.

This presentation discusses the research findings and makes recommendations for alternative methods for in-field assessment of HEPA-filtered equipment.

This presentation also discusses the new ANSI Z9.9 standard on testing portable HEPA-filtered equipment and its classification system.



Michael Brown

HSE Director and Consultant, Apex One Management Group; Alberta, Canada

Michael Brown is a Senior Health, Safety and Environment professional with experience in oil sands, aviation, marine, mining, heavy civil construction and industrial

workplaces. A former Occupational Health and Safety Inspector for the Ministry of Labour Construction Program in Ontario and Provincial Heavy Equipment Specialist, he has been the lead investigator for over one hundred serious injury accidents. A recipient of multiple provincial awards as a Ministry Trainer, he has extensive professional experience in enforcement, auditing, training, and construction regulations. With a unique combination of management, training, investigative skills, and practical experience in the health and safety field, Michael is able to motivate, coach, and drive the philosophy of safety ownership.

Communication Is the Easiest Tool to Break

Overview: There are different ways of creating a conversation. However, are we really communicating? Is the message being heard? Most importantly, are you being understood? Communication and safety go hand in hand and without good communication skills, the risks to your workers dramatically increases. The mistaken assumption that a communication has taken place can be the greatest hazard in the workplace.

Being an effective communicator is an essential aspect of leading and motivating teams in all walks of life, at all levels, and in all situations. Wherever you work, your organization will need to effectively communicate information to a wide range of individuals to provide a safe work environment. The best communicating teams are the most successful.



Monica P. Cervantes WSO-CSI(ML)/CST, BS, ASP/CSP, Industrial Hygienist Owner, Twin Horse Environmental and Vida Medical Management; New Mexico, USA

Monica P. Cervantes is the owner of Twin Horse Environmental and Vida Medical

Management, serving West Texas and the Permian Basin primarily in Oil and Gas, Construction, and Manufacturing industries in their safety, environmental, industrial hygiene needs. Monica obtained her Bachelor of Science in Biology, along with a minor in Kinesiology, from the University of Texas. She serves as the WSO Global Safety Roundtable recorder/reporter.

Overexposed

Abstract: "Overexposed" will help enlighten and motivate safety professionals to search for solutions and alternatives to hydrogen sulfide exposure. Current developments and progress in oil and gas exploration, along with production, continue to expose employees to Hydrogen Sulfide. "Overexposed" discusses methods of collection, sampling, calculating radius of exposure, along with analysis to promote professional development of safety professionals.



Prof. Dr. Elias M. Choueiri

General Director in the Ministry of Public Works and Transport; President of Lebanese Association for Public Safety (LAPS), Lebanon; Director, WSO National Office for Lebanon; Hazmieh, Lebanon

Prof. Dr. Elias M. Choueiri has been very active in academic and research settings for over 35 years. He is the author/co-author of 20 books and booklets, and hundreds of refereed publications, technical reports, conference presentations, and newspaper articles. He has won more than 20 awards for his scholarship and held faculty and managerial positions at several public and private institutions in Lebanon and the United States of America. He has been Director General in the Ministry of Public Works and Transport, Lebanon, since 1993. Dr. Choueiri serves on

the editorial boards of a number of scientific journals and is a member of the WSO Board of Directors, chairs the WSO Highway Transport and WSO Transportation of Dangerous Goods Committees, and serves as a WSO Liaison to the United Nations.

Prevalence and Associated Factors of Frailty in Community Dwelling Older Adults in Rural and Urban Settings in South Lebanon

Prepared by Faculty of Public Health, The Lebanese University, Sidon, Lebanon: Dr. Hikmat Akoum, Mr. Firass Al-Lababidi, Prof. Dr. Elias M. Choueiri, and Ms. Asya Khalil.

Overview: Worldwide, the populations are getting older. The number of people aged 60 years or older will reach 2 billion in 2050 (jumping to 22% of the total global population). Comprehensive public-health action on ageing is urgently needed. Although there are major knowledge gaps, we have sufficient evidence to act now, and there are things that every country can do, irrespective of its current situation or level of development.

In Lebanon, a small country in the Middle East, over 10.5% of the population is 65 years and older. The Lebanese family is an older adult's main source of security in later life, with the government offering little to no support. Prior to the civil war of 1975-1990, Lebanon, "the pearl of the middle east," was celebrated annually for the peace and beauty it held. However, the civil war destroyed much of its beauty and the accompanying peace for which it was known. The war has also destroyed the country's economic health after it was considered "the banking center of the middle east."

Old-age pensions, health insurances or indemnities are lacking in Lebanon for the majority of the older population. According to some sources, only $8.2\,\%$ of the Lebanese elderly benefit from at least one type of health insurance; among the illiterate ones, the rate is only 5%.

Study Objectives

- To determine the prevalence of frailty in both rural and urban areas in south Lebanon.
- To compare the factors associated with frailty in both rural and urban areas.

Methods and Materials

- Quantitative, cross-sectional population-based study design.
- Cluster sampling method: 400 subjects in south Lebanon: 200 from Sidon and 200 from Nabatiyeh.
- Data collection: Frailty phenotype and population characteristics.

Results

21% are Non-Frail

Protective factors:

Education Gender (Male)
Marriage Weight management

Physical exercise Social and spiritual engagement

24.5% are Frail

≥ 80 years Mainly widowed women

Low education Obese ≥2 chronic diseases Depressed Drug consumption Dependent

54.5% are Pre-frail

Risk factors include:

High BMI Obesity

Chronic disease(s) Visual problems
Hearing problems Polypharmacy
Depression Loneliness

Poor health perception Cognitive impairment

Recent fall(s) Dependency

Incontinence



Christian Mark Dimayuga

Corporate Safety Professional/ IH Specialist; Manila, Philippines

Christian Mark Dimayuga is a licensed Registered Nurse currently working on his Master's degree in Occupational Health from University of the Philippines. He is one of the Corporate Safety Professionals/IH

Specialists in a global IT company based in the Philippines (PH).

Marcus is also a practitioner in Occupational Safety, Fire Safety and Occupational Health accredited by Department of Labor (PH). Also, an accredited Pollution Control Officer by the Department of Natural Resources (PH).

After 9 years of working in the field of Health, Safety & Environment (HSE), He received noteworthy awards such as Highly Motivated / Well Discipline Award from BECTHEL Corporation (2014), HSE Award from SIEMENS Germany (2015), (2017) Platinum award & certificates (2016) as the program owner from RED CROSS (PH) and recipient of the 2018 Individual Community Grant award awarded by IBM which the cash grant was donated to the chosen charity.

He also supports and volunteers on the social, environmental, safety & health programs in the community, namely the International Costal Cleanup, Community health teaching, Angels walk for Autism, Resources for the Blinds, Teaching sessions for the deaf & the mute, Feeding program for the neglected elderly & children form the poorest among the poor communities and being an active first aider volunteer that supports disaster & calamities.

Innovational Development on Health and Safety Programs

Overview: "The development of workplace health & safety promotion programs is a popular trend in corporate world.

The workplace is considered to have great prospective for health promotion and education because workers spend mostly of their waking hours at work. Corporate leaders are attracted by the broad claims of benefits made for workplace health & safety promotion programs, which include improving employees' health and fitness; increased personal selfcare, boost employee's morale, decreasing medical and disability costs; reducing absenteeism; improving job satisfaction; increasing productivity; and enhancing the corporate image.

Although these claims are not proven through scientific research, current evidence suggests the workplace health & safety promotion programs can have a positive impact on employees, managers & leaders especially with the touch of innovation.

In the future, the scale of an improved number of corporations and companies establishing health & safety programs should continue.



Stephanie Gerken

Founder and Head Trainer, Michael's Angel Paws; Nevada. USA

Stephanie Gerkin earned a degree in Communication Studies with a minor in Biology and Chemistry from Cal

State Long Beach, and was accepted into the Exotic Animal Training Management program at Moorpark College, CA in 2004. She worked with a coyote, fox, bald eagle, lemurs, and many other animals, each offering opportunity to explore various ways of training. She also attended conferences to keep up to date on the ever-changing world of training domestic and exotic animals.

Upon graduation from Moorpark College in 2006, Stephanie moved to Las Vegas and began working as a Certified Dog Trainer. Her passion for training took her to new levels of learning in behavior modification training, agility training, and basic obedience training.

In 2008, Stephanie began working on another aspect of dog training – the home environment – providing real life solutions in the real world. In June 2011, she became a Certified Service Dog Trainer at Bergin University of Canine Studies, where she spent her days researching, learning, training, and taking care of dogs of various ages, to prepare them for a life of helping others. She certified her first hearing impairment Service Dog in October 2011 and continues today working with several individuals to train their own dogs to become Service Dogs for various medical and psychological disorders.

In late 2011, Stephanie became a volunteer for the All American Dogs Foundation, founded by veterans to help fellow veterans lead a more independent life through the use of a Service Dog. She helped raise one of the first puppies for the program, implemented training protocols, and created files for each of the dogs that detailed their training development.

In August 2012, she and her husband became puppy raisers for Freedom, a Golden Retriever, who is their first Service Dog for Michael's Angel Paws. Freedom was generously donated from Spring Mountain Kennels, Washington (USA). Countless hours have been invested in training, socializing, and teaching him how to behave as a Service Dog in public. In December 2013, Freedom was placed with his veteran after 18 months of training.

Service Dogs in the Workplace

Overview: This presentation was on Service Animals in the Workplace, covering ADA Regulations, sharing a Training Overview, and demonstrating of two types of service animals at work (therapy dog and service dog).



David P. GilkeyD.C., Ph.D., CPE, CSP
Associate Professor of Ergonomics and Safety, Montana Technological University; Montana, USA

Dr. David Gilkey is an Associate Professor at Montana Technological University in Butte, MT. He has 40 years' experience in occupational and environmental health with ex-

pertise in ergonomics, safety, and workplace wellness. Dr. Gilkey earned his Doctor of Chiropractic degree from Southern California Health Sciences University and Ph.D. from Colorado State University with a focus in occupational health, safety, industrial hygiene and ergonomics. He is a Certified Professional Ergonomist (CPE), Certified Safety Professional (CSP) and Registered Environmental Health Specialist (REHS). Dr. Gilkey has authored and/or coauthored 30 articles in peer reviewed scientific journals, 60 articles in trade journals, and provided four book chapter contributions in the areas of ergonomics, occupational safety, and environmental health. He has taught both undergraduate and graduate level courses in environmental and public health, safety and ergonomics. His research has focused in translational (R2P) research looking at methods to enhance safe work practices in agriculture where ATVs are used in farm and ranch operations. He was actively involved in construction safety climate research with an emphasis on evaluating differences between Latino and Non-Latinos workers. His most recent work is focused on safety climate in mining.

ROV Safety: Epidemiology, Risks, Hazards, Interventions, and Trends

Abstract: Recreational off-road vehicles (ROVs) include allterrain vehicles (ATVs) and utility terrain vehicles (UTVs). The ROVs are used by an estimated 35 million Americans for recreational and occupational applications. The majority of riders (78%) use these vehicles for blazing trails, camping, hunting and other recreation activities. The occupational uses are expanding from the farm and ranch to land management, search and rescue, police and fire, military, public administration, mining, retail, education services and more. These versatile vehicles are not without risks and adverse health outcomes. An estimated 400,000 users are injured annually with nearly 100,000 seeking medical care in emergency rooms across the country. Since 1982 the Consumer Product Safety Commission has investigated over 15,000 fatalities associated with ROV use. The major interventions to improve safety have included rider/driver training and education, design and engineering changes and legal strategies. The Specialty Vehicle Institute of America (SVIA) offers safety training through the ATV Safety Institute (ASI) to purchasers of ATVs and the Recreational Off-Highway Vehicle Association (ROHVA) for UTV buyers; unfortunately, only 10% of new owners engage the active learning opportunity. Consumers are more recently buying UTVs at twice the rate of ATVs for the design enhancements, added features and improved safety.



Christopher Hicks
WSO-CSE
Lead Consultant, Hicks-Carter-Hicks,
LLC: Missouri, USA

Christopher (Chris) Hicks is an experienced, results-oriented, EHS professional with a successful career. He is multifaceted with extensive experience and expertise in EHS management systems, regulatory compli-

ance, process/project reviews, auditing, training, inspections, and incident investigations. Chris demonstrates a passion for providing value-added engagement, teamwork, and contributions to employers from the chemical, pharmaceutical, biotechnology, food, and steel industries; all for success in EHS.

Chris's strong technical prowess and diverse business background enables him to effectively interface with management, engineers, work teams, contractors, and regulatory compliance agencies while working in various industries during his career. The leadership skills Chris possesses—on the job and in the community—provide an additional dimension to his professional background and ability to attain optimum business results.

He is active in American Society of Safety Professionals (ASSP), American Industrial Hygiene Association (AIHA), National Safety Council (NSC), and World Safety Organization (WSO). He is the past president of ASSP's St. Louis Chapter and was honored with the Safety Professional of the Year award by the chapter. He has been a speaker at the ASSP Professionals' Professional Development Conference, NSC's Congress and Exposition, and a past keynote speaker for Harris-Stowe State University's Science and Math Academy Expo STEM program.

Chris holds a Master of Science Degree from the University of Central Missouri in Industrial Safety and a Bachelor of Science Degree from Indiana State University (ISU) in Safety Management and Environmental Safety. He is a Certified Safety Executive (CSE) through the Certification and Accreditation Board of the World Safety Organization. Chris has taught as an adjunct professor for the University of Central Missouri teaching Master and Bachelor's degree level industrial safety courses. Chris was selected and completed the prestigious Leadership St. Louis program.

In addition to Chris's successful career in the Environmental, Health, and Safety field, his leadership was apparent when appointed to several St. Louis County boards and commissions, served as an ISU Alumni Association Board of Directors, inducted into the ISU Athletic Hall of Fame, selected as a First Team Kodak All-American and Associated Press All-American by the American Football Coaches Association and Associated Press as an ISU football student-athlete.

Chris continues to lead the way for success in his endeavors ... professionally, personally, and in the community in which he resides.

Key Essentials of a Value-Added Contractor Safety Program

Overview: Key Essentials of a Value-Added Contractor Safety Program identifies environmental, health, and safety requirements applicable to Contractors and Visitors performing services on, or visiting, a company. Pivotal resources and tools are provided to develop, maintain, and sustain a robust Contractor Safety Program. As a result, continuous improvement in contractor environmental, health, and safety performance is necessary to create an injury/illness-free and incident-free environment at a company for employees and their visitors. The session provides a fully integrated approach to the management of all contractors and visitors at a company. The processes presented supports a

company's Safety initiatives and goal while proving the framework and management systems pivotal to ensuing the highest organizational priority is placed on the environmental, health, and safety of the company's employees, visitors and the community in which the company operate. Although management of an effective contractor safety program has complex components, the presentation, Key Essentials of a Value-Added Contractor Safety Program, breaks down the pivotal parts of a robust and regulatory compliant program into a manageable system comprised of integral, integrated, and viable requirements. The processes and tools detailed in this presentation define requirements to ensure improvement toward an incident and injury free performance.



Joann Jackson-Bass WSO-CSM, CSP Principal Safety Professional, Mission Support Test Services

(MSTS); Nevada, USA

Joann Jackson-Bass is a Principal Safety Specialist for Mission Support Test Service (MSTS). Joann manages

the ES&H program for the Remote Sensing Laboratory located at Nellis Air Force Base in Las Vegas, Nevada. Prior to this, she was a Safety Professional and an Industrial Hygienist at the Rocky Flats Plant near Denver, Colorado.

Her background has been in law enforcement right after college, then the fire department, and then safety. She has a Master's in Psychology from Regis University. At Rocky Flats she was involved in several behavioral based processes such as Line Control Safety and Health which incorporated the Total Safety Culture principles; Behavioral Science Technology Process for Employees; and DuPont STOP process for supervisors.

A native Arizonian, her Bachelor of Science degree from University of Arizona (Tucson, AZ) is in Public Administration with an emphasis on Law Enforcement. She volunteers at the Las Vegas Rescue Mission and Three Square Food Bank.

Safety Incorporated into Emergency Response

Abstract: Safety has been incorporated in Emergency Response Operations for many years, however emergency response personnel die in the call of duty every year by going into volatile situations and placing themselves in harm's way.

By investigating specific cases and the corrective actions taken, this presentation will disseminate the hazards and how those hazards are mitigated.



Dr. Janis K. JanszRN, RM., Dip. Tch, BSc. Grad. Dip.
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A/Professor, Curtin University;
Director, WSO National Office for
Australia; Western Australia

Dr Janis Jansz, RN, RM., Dip. Tch, BSc., Grad. Dip. OHS, MPH, PhD, FSIA is an Associate Professor in Occupational Health and Safety Environmental Health in the School of Public Health at Curtin University in Australia and has a part time appointment as a Professor at the Xi'an University of Science and Technology in China. She is Director of the World Safety Organization National Office for Australia, a Member of the Board of Directors for World Safety Organization and Editor of the World Safety Journal. Since 1988 Janis has been a Member of the Occupational Health Society of Australia and is currently the Vice President. Janis was awarded the Safety Institute of Western Australian Inc. 'Member of the Year' in 1994 and in 1999, was the first female President of this organisation and has been Awarded Life Membership of the Safety Institute of Australia for her contributions to advancing the Safety Profession. In 2005 and in 2011 Dr Jansz was presented with the World Safety Education Award for her contribution internationally to providing occupational safety and health education. In 2001 and in 2015, in recognition of her professional work in improving occupational safety and health world-wide through her teaching, research and professional work, Dr Jansz was presented with the Award of 'World Safety Person of the Year.'

Is Education and Training Required for Workplace Safety?

Abstract: This presentation examines why there is a need to provide occupational safety and health education and training. The history of workplace health and safety education and training is traced through British legislation, the International Labour Organisation (ILO), and through Australian law. Case studies and examples of what is currently included in work related safety and health education for children, people in the workplace, for the public, and the benefits of this education are included.



Joseph Mweu Kimeu WSO-CST/CSI(SL), SIIRSM EHS Engineer, G4S Kuwait; Director, INPATC Kenya; Kuwait

Joseph Mweu Kimeu is an Occupational, Health, Safety & Environment Professional with broad practice in the fields of petrochemicals and civil constructions. He is

currently employed in G4S Kuwait as an HSE Engineer in-charge for the Occupational, Health, Safety & Environment of all the company personnel deployed in various client sites.

Director of INPATC Kenya Limited, offering general health, safety & environment consultancy services, training, supplying personal protective equipment for oil & gas, construction projects, installation, supply and inspection of fire-fighting equipment, inspection of plant safety equipment, and operator certifications, among others. Mr. Joseph is in process of registering for the World Safety Organization National Office for Kenya and developing the free fire safety related training for both primary and secondary school

students due to the current development of rural areas which will be supplied with permanent electricity.

He worked in Sierra Leone and Kenya for about 10 years while assigned at Sierra Rutile limited-mining and BAT Kenya Limited Head office, factory and project sites respectively mainly in the fields of Health & Safety Training, Quality monitoring, fire protection and suppression, Transport Safety, Rescue and escort services, specialized in overall Health & Safety Management System.

An active Member of the Kenya Occupational Health and Safety Association (KOHSA), American Society of Safety Engineers (ASSE-Kuwait Chapter), a Specialist Member of the International Institute of Risk & Safety Management (SIIRSM), Approved International Institute of Risk & Safety Management (IIRSM) trainer, WSO-Certified Safety Technician and Certified Safety Instructor-Senior Level. Currently Vice President (External), Committee Member, Officer, Board Director of WSO Qatar Chapter, and a newly-elected member of the WSO Board of Directors.

Train Your Mind: The Key to Managing Stress

Overview: The mind is a set of cognitive faculties including consciousness, imagination, perception, thinking, judgement, language and memory. Actually, it is the faculty of an entity's thoughts and consciousness.

Whether WE work in a traditional or progressive environment, on our own or in a sea of cubicles, work life is full of challenges. Most of us are beholden to the income we receive from our jobs, and beyond that, we get up and go to work because we have a real desire to contribute to the greater good. Turning away from work is not an option for most of us, so we buck up and throw ourselves into the challenges of the workplace.

Working SAFELY

"Safety is not a gadget but a state of mind".

Standards – all standards are designed to protect us

Awareness – situational awareness should be the first step

Fearless intervention – we MUST recognize and value
intervention

Everyday – We MUST make everyday a safe day Learn and change – the surest way to improve You make a difference – be accountable



WSO-CSSD/CSM/CST Chief Safety and Environmental Officer, Metra; Illinois, USA

Hilary E. Konczal, Metra's Chief Safety and Environmental Officer, has an extensive background in railroad operations, regulatory compliance, safety and security. He

has more than 26 years of service with Metra Commuter Railroad. Hilary leads a team of safety professionals who are responsible for ensuring that the safety of Metra's employees, passengers, contractors and public are at the forefront of its operation.

He is Chairman of the American Public Transportation Association's (APTA) Commuter Rail Safety and Security Committee, Co-Chair of Metra's Labor Management Committee, and Executive Board Member of the Illinois Terrorism Task Force. He is an active member of the Federal Railroad Administration's (FRA) Railroad Safety Advisory Committee (RSAC), the American Association of Railroads (AAR) Safety and Operations Committee, and the Du-

Page Railroad Safety Council. Hilary is certified by the World Safety Organization (WSO) as a Certified Safety and Security Director (WSO-CSSD), Certified Safety Manager (WSO-CSM) and Certified Safety Technician (WSO-CST).

Combatting Human Trafficking in Transportation

Overview: According to the Department of Homeland Security, "Human trafficking is modern-day slavery and involves the use of force, fraud, or coercion to obtain some type of labor or commercial sex act. Every year, millions of men, women, and children are trafficked in countries around the world, including the United States. It is estimated that human trafficking generates many billions of dollars of profit per year, second only to drug trafficking as the most profitable form of transnational crime."

Transportation and travel stakeholders are working together to combat human trafficking, so learn more about these efforts.



Martin Logan National Director Health & Safety, AGF Group (AGF Steel); Québec, Canada

Martin Logan is a safety specialist working for AGF Steel Inc. - a rebar company based in Canada. He joined the company in 2012 as National Safety Director. After 8 years

working in a shop – first on the production line and then in safety projects – he decided to go back to university to complete a bachelor degree with a major in safety. His career led him to work a few years for the Quebec Construction Association where he helped contractors managing health & safety. He has also worked for gas companies and came back in the sector of construction for a scaffolding company until he joined AGF Steel Inc. five years ago. Passion – both in his personal and professional life - is what best describes Martin.

How to Deal with a Work Fatality

Overview: This presentation covered OSHA statistics and procedures regarding the appropriate steps to take when reporting a work fatality.



Cynthia Febrina Maharani Lecturer, Binawan University; Jakarta, Indonesia

Cynthia Febrina Maharani will pursue a Doctoral degree in public health at the University of Iowa (USA). She is a lecturer and researcher at Binawan University, Jakarta. Mrs. Maharani gained a Bachelor's

degree in occupational health and safety from UI and a Master's in occupational health, safety, and environmental science from the University of Birmingham (UK). Her research is concerned with how occupational health and safety risks in small and medium sized enterprises in Indonesia should be managed.

Current Practice, Attitude, and Behavior toward Road Safety Behavior among Drivers in Jakarta, Indonesia

Overview: In 2008, 1499 people were badly injured in traffic accidents in Jakarta. From January until March 2018, there were around 6.022 people died in road accidents in Indonesia. Most of the victims of these road accidents were and continue to be motorbike users. A mixture of growing population, public transportation services, and drivers' behavior have been cited as the main causes of road accidents in Indonesia (Soehodho, 2009). A study by WHO (2016), highlighted that low- and middle-income countries have the greatest road traffic fatality rates and Indonesia is an example of this. This sets the background to this research which investigated the road safety attitudes and behavior amongst drivers in Jakarta, Indonesia. Semi-structured interviews were conducted with nine interview participants including bus drivers, car drivers, and motorcyclists. The findings from the interviews were supported by a questionnaire survey together with direct observation. The drivers studied recognized that there were personal actions that could help support their safety on the roads including paying proper attention to road safety signs and being more focused while driving.



KEYNOTE: Training for an Active Shooter Event: The Fatal Flaw in Employee Training

Bo Mitchell

CEM, CPP, CBCP, CAS, CSI-ML, HSEEP, MOAB, CHCM, CHSP, CHS-V, CSSM, CSHM, CFC, CIPS, CSC, CES-

CO, IAC, TFCT3, CERT, CMC, CHEP President, 911 Consulting; Connecticut, USA

Bo Mitchell served as Police Commissioner of Wilton, Connecticut for 16 years. He retired in February 2001 to found 911 Consulting with the mission to protect people at their workplaces during emergencies.

911 Consulting's mission grew out of three realizations.

Police reports about incidents and emergencies at workplaces nearly always included a stunned boss saying, "I never thought this could happen to us."

Even though police response time to 911 calls was prompt, it could never be immediate. No matter how dangerous the emergency, police could not arrive and deploy in less than five minutes. The employer was exposed—everyone was on their own for those potentially-lethal first minutes.

The tipping point was when Bo's wife experienced a narrow escape at a new job. She was working on the sixth floor of a prewar building in lower Manhattan. One afternoon, when all senior managers were out, she noticed smoke wafting through the office. She asked co-workers what they should do. No one seemed concerned, and everyone kept working. As the smoke intensified, she collected her things and left, encouraging others to do the same. She told Bo that night, "No one knew what to do, so they did nothing. No one even called 911." (Another tenant did call; the building was evacuated and the fire was extinguished.)

What Bo had identified as a business opportunity became a personal passion.

"Every day in the United States, fourteen people fail to go home from work to their families, and nearly five million are seriously injured on the job. My wife could have been among them because her employer didn't understand their legal responsibilities."

Since February 2001, 911 Consulting has been conducting risk assessments, creating emergency plans, training employees, and leading exercises for regional, national and international clients across dozens of industries so everyone can go home to their families.

Bo also serves as an expert in landmark court cases nationally, and has earned 21 certifications in organizational safety and security.

Bo earned his Bachelor of Science degree from New York University and served in the U.S. Army Reserve for five years. He is also a scuba diver and therapy dog volunteer.

You can learn more about Bo in the April 2019 WSO NewsLetter. More information about 911 Consulting and the programs offered may be found by visiting his website (www.911consulting.net).



Graham Moore

JCL, CP, PSP

President, Tesseract Security Consulting, Inc.; British Columbia, Canada

Graham Moore's 35-year background in the security industry includes 15 years as a locksmith operations manager, two decades as a security consultant, and over a decade of experience in healthcare security

management developing technical and operational security in multiple healthcare regions.

Graham holds Journeyman Certified Locksmith, Certified Protection Professional, Physical Security Professional and CPTED security certifications.

Selecting and Managing Your Security Consultants

Purpose:

Both security managers and non-security professionals have difficulty in effectively selecting and managing security consultants to assist in developing useful outcomes to perceived and actual security problems.

There are a variety of reasons for failures in arriving at effective solutions to these problems, and several interrelated paths to avoiding these pitfalls.

The Problem:

Security is an extremely broad definition and contains many fields of expertise under the deceptively simple heading. The presentation authors have a combined 7 decades of experience in the security industry as both clients and consultants, observing and being impacted by security project successes and failures.

No one security consultant has expertise in all aspects of the industry. There are no truly "one stop shop" consultancies. Care must be taken with defining outstanding security issues and se-

lecting appropriate consultants to research these issues and provide reports having achievable solutions.

Many non-security executives fail to understand the importance of vetting security consultants on the basis of licencing, education, credentials, experience and industry reputation. This becomes critical as the security issues move farther away from guard force related problems and into specialized areas of legal and technology-based concerns.

Methodology:

The authors delved into historical security consulting reports affecting their current and previous organizations to review the requests for expert research and the utility of these finished reports. Further research was conducted into changes to security by clients as a result of the authors own work as security consultants in their areas of expertise.

Results:

The primary findings were that clear appreciation of the security issues at hand was imperative to generating an RFP that structured the research and outcomes produced in the consultant's reports. Before a final selection of the security consultant was made, a face to face meeting and iterative discussion with the proposed vendor was necessary to clarify the issues and educate the customer on the expert-observed scope and likely success of the proposed project.



David A. North WSO-CHMT(II)/CSI(ML)

Director of Emergency Response Personnel and Fire Chief, own of Mills; Owner, DNS Environmental; Wyoming, USA

PROFESSIONAL SUMMARY

• Current Director for Emergency Response Personnel and Fire Chief for the Town of Mills, Wyoming

- Thirty-seven years of experience in environmental and safety compliance and regulatory compliance
- Seven years of Law enforcement experience for environmental and civil statutes for various agencies including records, arrest, custody and testifying as required (warrants and court orders)
- Develop SOP, PDQ, JHA and JSA for operation and daily activities associated with risk assessments, risk mitigations, and risk management
- Provide QA/QC for environmental and safety operations and implementation and completion of processes
- Manage personnel and resources in operations related to NEPA, BLM, FWS, EPA, OSHA, DEQ, WYGF and other regulatory agencies in regulatory compliance programs
- Current Board of Directors World Safety Organization (WSO) and direct assistant to vice president/deputy director of the WSO, and committee chair for the Environmental and safety Committee.
- 2011 WSO Environmental and Safety Professional of the Year
- WSO Environmental Director 2013-2018, 2019-present
- WSO CHMT II, and CSI Master Level

Does Modern Ammunition Really Present a Hazard to First Responders in Accidents and Fire?

Overview: Is there really a hazard to first responders from Modern Ammunition in a fire? With the increased storage of ammunition in nontraditional locations there has become and increased concern about the potential hazards to first responders. The media has promoted myths over the several years about how dangerous ammunition is to first responders in structure fires or vehicle accidents.

Just how much of this it true and how much of this is fiction. Mr. North will present a series of short scenarios showing which are true and which ones are fiction. Hollywood and the movies have always depicted fires that have ammunition in them as being highly explosive and a hazard to not only those are the fire but for miles around.

The presentation supported by the National Shooting Sports Association provides a variety of conditions and potential exposures to show examples of how various types of ammunition react in fire verses-controlled use from a firearm. I hope this will help to educate safety professional and reflect where there are actual hazards compared to perceived ones.

The presentation is to provide information related to the safety of the first responders and the safety professional by providing them with accurate information. This is our responsibility to be informed and educated on what is really a hazard or just a perceived hazard.



Ugochi Obidiegwu

Managing Partner, Ulomka Multi Solutions Ltd.; Lagos, Nigeria

Ugochi Obidiegwu is a Safety Education Advocate. Her Safety Movement focuses on creating unique safety education products and events for African children and educators in order to bridge the education gap. Using "The Safety Chic" platform on social

media, she engages in safety advocacy. Her Train Them Young Initiative (#2TYI) has taught over 2500 students across the country safety skills. She is the author of the illustrated child safety story book series - The Adventures of Muna, self published on Amazon. She convenes the annual School Safety Summit in Nigeria where relevant stakeholders proffer solutions to safety challenges affecting school children.

She is a 2016 YALI Regional Leadership Centre Fellow for Emerging African Leaders, 2017 finalist McKinsey Next Generation Woman Leader Award, 2018 Tony Elumelu Entrepreneur and 2018 Mandela Washington Fellow. She currently sits on the West African Regional Advisory Board to IREX and USAID on matters relating to the Mandela Washington Fellowship.

Grooming the Future Workforce: A Case Study of the Train Them Young Initiative

Overview: The major cause of most accidents all over the world is attributed to human error. This is not really a surprise as in most cases, the first time most people encounter safety training is as full-fledged adults in the workplace where most habits have already been formed. This poses a problem for safety compliance in the workplace as some of these adults do not easily adapt to safety rules.

Therefore, we decided to solve this problem from the root through the Train Them Young Initiative (#2TYI) based on the premise that most habits taken into adulthood are formed as children. We believe that if we make a conscious effort to groom young people about safety consciousness, it makes things easier when they are introduced into the workplace. Our method in this project was to visit states across Nigeria to teach children how to stay safe in different situations using our in-house safety curriculum. The idea was to inculcate safety consciousness in their every day decisions which helps modify future behaviour. The impact as at today: the project has trained over 2500 children in 11 states in Nigeria, birthed the idea in other African countries, led to the creation of African inspired educational products (Safety posters and a child safety story book series self published on Amazon) and led to a movement in Nigeria where more Health and Safety organisations are now visiting schools to train children.

In conclusion, the foundation has been set but more needs to be done to entrench Safety Education in schools across the world as part of a proactive strategy to modify human behaviour and improve Occupational Health and Safety. We would therefore recommend collaboration with practitioners and governments to enable us replicate the system in Nigeria and groom more safety conscious children.



Douglas G. PerrymanWSO-CSI, PE, CSP
President, DPSafety Services, Inc.;
Colorado USA

Doug Perryman is a safety and health professional with over 40 years of experience, more than 25 of which were in oil and gas with the exception of off shore, heavy construction of multimillion dollar value pro-

jects in oil and gas in numerous locations in the US and Alberta, Canada. He was recently involved in commercial construction in the Denver area as a safety consultant. Mr. Perryman also has experience as lead investigator for work related injuries at Rocky Flats Weapons Plant, case manager for multiple DOE subcontractors for 5+ years, as well as district manager of Dallas-Fort Worth forensic engineering office. Scope of work included fire, cause and origin, workers' compensation fraud, expert witness and product liability cases. Mr. Perryman authored and instructed "Accident Investigation and Case Management, Searching for the Truth" at the OSHA Institute in 2003 and presented "How to Lower your OSHA Recordable Incident Rates from 10-30% at the 2003 ASSE Professional Development Conference in Denver, Colorado. Mr. Perryman is a WSO-Certified Safety Instructor, PE, and CSP with previous Toastmasters speaking training.

Building Trust through Intervention

Overview: We prefer engagement over commitment any time... what you did, not just what you said! The "engagement tool" includes the rules of the game and is implemented during any management meeting(s), including call-in(s). The foundation of this tool is a no-name requirement as well as face-to-face intervention in a respectful and positive manner.



Engr. James F. Porter, Jr.

President, Filconfab Incorporated; President, Fil Noble Phils. Inc.; President, Environmental Risk Reduction, Inc.; General Manager, TUV Bayern Ventures, Inc.; Technical Director, WSO International Office for Philippines; Consultant, Philippine Nuclear Research Institute (PNRI); QA Manag-

er, AG&P Co. of Manila, Inc.; Metallurgist, Metals Industry Research and Development Center (MIRDC) | Manila, Philippines

Engr. James F. Porter, Jr. is a member of WSO's Board of Directors, Technical Director of WSO International Office for Philippines, accredited Mechanical Equipment Inspector (BWC), accredited Safety Consultant, and Radiological Health and Safety Officer (RHSO). He is a certified Nondestructive Testing (NDT) Level III in Radiographic, Ultrasonic, Magnetic Particle, Liquid Penetrant Testing and Infrared Thermography. Engr. Porter is also certified API-510 by the American Petroleum Institute (API).

Process Safety Management in Philippine Industry

Overview: Industries using processes involving highly hazardous substances are potentially capable of unexpected releases of toxic, reactive, or flammable liquids and gases. Because of major disasters involving releases of these hazardous substances, the US OSHA developed OSHA 3132 also known as Process Safety Management (PSM) that applies mainly to manufacturing industries particularly, those pertaining to chemicals, transportation equipment, and fabricated metal products. Other affected sectors include natural gas liquids; farm product warehousing; electric, gas, and sanitary services; and wholesale trade. It also applies to pyrotechnics and explosives manufacturers covered under other OSHA rules. Developing countries like the Philippines adopt standards developed by organizations and associations with global recognition and respected by their particular industry. OSHA 3132 has not been officially adopted by the Philippines although the Philippine manufacturing industry is using this standard as a guide for the safe operation of their facility. With no government regulation, use of the standard is "voluntary" and manufacturing facilities are not required to comply with the specified minimum elements of the OSHA standard. The PSM standard contains fourteen (14) elements and the key provision of the standard is Process Hazard Analysis (PHA). PHA is a careful review of what could go wrong in a process and what safeguards must be implemented to prevent releases of hazardous substances. This paper presents the problems encountered by Philippine companies in implementing a comprehensive process safety management program and how these problems can best be addressed. This paper will also present some major industrial accidents in the Philippines, with analyses on why they happened and important lessons learned.



Kayla Rath

Motivational Safety Speaker, Safety Difference; Texas, USA

Kayla Rath was nine years old when her father, Brad Livingston, was injured on the job in a 100% preventable accident. For three months, as Brad fought for his life, the lives of his family were uprooted and

devastated. You will hear from Kayla what it's like to be pulled from school only to be told your father may not survive the night, and you'll face the reality that the decisions you make on the work site don't affect only yourself, but also the ones you love most.

Kayla lives with her husband, Eric, and their five children in Canyon, Texas, USA. She travels the country speaking about the impact of growing up with a handicapped father and how a decision made 27 years ago still impacts her today.

The Ripple Effect: The Impact Unsafe Work Acts Have on a Family

Overview: Kayla tells the riveting story of what it was like to be pulled from school only to be told she may never see her father again. She walks the audience through what it is like for a child when an unsafe decision causes a dad to not come home. From the first night alone, to growing up with a handicapped father, Kayla speaks to the often-ignored truth that decisions made on the work site cause a Ripple Effect in the lives of the family.

No matter the industry, no matter the job, from the CEO to the new hire, Kayla tells a story that your employees need to hear. Your decisions affect others. What happens when they affect the ones you love the most? Kayla travels the country with one goal in mind: to inspire workers to make decisions that will bring them home to their families each night.



Dr. Lourrinda Renée

EdD, PhD, CEM, AWS-CWI, CSHO, WSO -CSS/CSSD

Owner, Lourrinda Enterprises, LLC; Oklahoma, USA

Dr. Lourrinda Renée has over 20 years' safety experience in managing both general and construction projects. She has

shown leadership in safety, environment, security, inspection, contractor supervision, technical writing, emergency response management, and field workplace auditing. Twelve years have been specific to the oil and gas industry.

Lourrinda has completed two doctorate degrees. In 2008, she obtained her Safety Engineering doctorate from Warren National University, Pipeline Construction Safety Practices. In 2018 at Grand Canyon University she used the world renowned NOSACQ-50 safety climate research tool to explore oil and gas agricultural workers, Exploring Safety Climate Perceptional Differences Amongst Direct and Indirect Employees Engaged in Pipeline Restoration. This research was the first to implement all safety climate segments in an agriculturally based industry and first use in the United States oil and gas industry.

Lourrinda has been a part of several multimillion/billion-dollar heavy civil construction projects, including maintenance and con-

struction of pipelines, compressor stations, tank farms, refinery turnarounds, horizontal drilling (railroads and river crossings), vertical drilling, and exploration. She has served as a Technical Writer and Trainer for Implementing Risk Management, Safety Management, Policy and Procedure Development, Training Programs, Advanced Accident Investigation, preparing Criminal and Civil Litigation packets, Start-up Management, and Emergency Management & Response.

Lourrinda was the cover story of Women of Distinction Magazine (January 2016), and recipient of the National Association of Professional Women (NAPW), VIP Woman of the Year 2015. She is a member of the WSO Certification Board and has been a WSO member since 2006.

Safety Climate Perceptions of Workers

Overview: Lourrinda will review the safety climate tools available for small to large companies, specifically free tools such as the NOSACQ-50 instrument, offering easily useable and calculated results for all sizes and multiple industries. A review of literature and safety climate models will also be included.



Emmanuel Sarmiento

WSO-CST

OHS Specialist and Consultant, Pixiu Safety Support International; British Columbia, Canada

Emmanuel Sarmiento is the Lead HSE Specialist for the Rio Tinto, Engineering Group, BC Works, Canada. An experienced HSE professional having worked on three

continents providing support on large scale construction projects within the mining, power, petrochemicals, oil and gas industries. Combining his background education in Electronics Engineering (ECE) and Construction Safety Officer (CSO), he manages multiple engineering projects with safety and technical support. In 2017 he was honored with the World Safety Organization James K. Williams Award, for demonstrating above average support for the World Safety Organization programs. Emmanuel leads the WSO Canada group and has been instrumental in promoting the WSO within Canada, and has been supporting safety groups from the Philippines.

Developing Skilled OHS Specialists

Overview: Occupational Health and Safety (OHS) is an integral part of today's workplace. Whenever there is a potential for causing injury or illness to workers, you will find OHS specialists on the job, hard at work to keep the workers safe. This presentation examines strategies for the development of OHS specialists in project based industrial construction. Understanding the work profile, functions, roles and responsibilities of an OHS specialist can tremendously help in preparing future construction OHS specialist in getting the right education, training and skill set to pursue a career in the construction industry.



Karen Townsend Senior Manager HSE, Sodexo; California, USA

Karen Townsend is the Senior Manager of Health, Safety and Environment for Sodexo, a world leader in quality of life services.

Karen is President of the oldest safety society in California, Southern California Industrial Safety Society (SCISS). She has 28 years of experience working as an Occupational Health Nurse and safety professional for companies such as Gencorp, Nordstrom, Warnaco, ITT Industries and Western Digital. She has been a volunteer fire brigade nurse in the past and an American Red Cross First Aid/CPR/AED Instructor. She has managed ergonomic programs at various companies and has significantly reduced repetitive injuries in the workplace.

Karen has earned a Bachelor of Science in Workforce Education & Development through Southern Illinois University and has completed graduate and post-graduate classes in Ergonomics and Massage Therapy.

In September, Karen participated as a panelist at the California Workers' Compensation and Risk Conference in Dana Point.

She enjoys international travel and scuba diving.

Safety through the Generations

Overview: Presenting an ergonomic focus. Initially reviewing the different generations. Introduce a Safety Moment of Defensive Driving. Discuss safety at work and at home including reviewing low back strains and musculoskeletal disorders. Discuss lifting technique. Provide examples of ergonomics in action. Explain the advances of ergonomics. Demonstrate and actively participate in a stretch and flex program to prevent strain type of injuries.



Kristiana C. Varkalhoff

Student, Tarpon Springs High School; Florida, USA

Kristiana Varkalhoff is a student of the Cambridge Advanced International Certificate of Education at Tarpon Springs High School. She has earned awards in regional Dioceses Forensic Speech Competitions two

years in a row. She was also a finalist of the International Labour Organization's SafeYouth@Work Media Competition with her award-winning speech on the topic of "Texting While Driving." Kristiana serves as a member of the TSHS School Advisory Council, volunteers for the WSO Southwestern Florida Chapter, and is a participant of the WSO Southwestern Florida Chapter sponsored Dads-n-Donuts event at Guardian Angels Catholic School in Clearwater, Florida (as featured in the September 2017 issue of the WSO NewsLetter).

A Student's Point of View: How We Feel Safe in American Schools Compared to Schools in Other Countries

Overview: As a high school student, Kristiana Varkalhoff offers a unique perspective on school-related violence and safety measures. Her presentation will cover:

- How U.S. students are safe in schools compared with other countries
- Worldwide statistics
- Issues like single shooter, drugs, bullying, racial tensions, gangs, student transportation, etc.
- Preparedness/training: "run-hide and fight"



Abdul Rafiu Zakaria

QHSE Country Manager, Bothar Boring & Tunneling; Doha, Qatar

Abdul Rafiu Zakaria has been working in the field of HSE in the Middle East since 2006. He has a wide range of experience working in the region in the oil and gas industries, micro tunneling, construction

and road works and has worked as a "long haul heavy equipment operator" and provided trainings to hundreds of heavy equipment operators. He has been involved in many accident investigations and fit for purpose QHSE management systems for various organizations. He is a college graduate with relevant HSE qualifications and diverse work experience.

Resolving Contemporary HSE Issues in the Middle East

Overview: HSE practitioners in Qatar and the Middle East face unique challenges and mostly alone without support from external bodies or government institutions. Despite the provision of HSE legislation and procedures for the region, there is no strong legal body or institution to genuinely support the HSE practitioners in achieving their goals. The aim of this presentation is to raise awareness on ways to get the job done regardless of the challenges that are faced.



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