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World Safety Organization

Headquartered in Warrensburg MO USA, the World Safety Organization (WSO) is a global community of people dedicated to “Making Safety a Way of Life ... Worldwide” since 1975. In Consultative Status with the United Nations and having National Offices and Chapters in over 20 countries, WSO has the reputation and reach to bring together diverse safety professionals and practitioners who are transforming the world’s corporations, organizations, and communities to meet tomorrow’s critical challenges.

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.

In 2017 WSO’s Certification Program was accredited in compliance with ISO/IEC 17024:2012, an international standard which sets out criteria for an organization’s certification program for individual persons, by the International Certification Accreditation Council (ICAC). Learn more about WSO at worldsafety.org.

1975: Founded and Incorporated in Manila, Philippines
1985: WSO Professional Certification Program established in the USA
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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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.

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.

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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 Brandys
PhD, 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 previous 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
- Marriage
- Physical exercise

24.5% are Frail
- ≥ 80 years
- Low education
- ≥2 chronic diseases
- Drug consumption

54.5% are Pre-Frail

Risk factors include:
- Obesity
- Visual problems
- Polypharmacy
- Loneliness
- Cognitive impairment
- Dependency

Data collection: Frailty phenotype and population characteristics.

- Protective factors: Gender (Male), Weight management, Social and spiritual engagement
- Risk factors include: High BMI, Chronic disease(s), Hearing problems, Depression, Poor health perception, Recent fall(s), Incontinence

Protective factors

Mainly widowed women
Obese
Depressed
Dependent

45.5% are Pre-Frail

Risk factors include:
- Obesity
- Visual problems
- Polypharmacy
- Loneliness
- Cognitive impairment
- Dependency

Data collection: Frailty phenotype and population characteristics.

- Protective factors: Gender (Male), Weight management, Social and spiritual engagement
- Risk factors include: High BMI, Chronic disease(s), Hearing problems, Depression, Poor health perception, Recent fall(s), Incontinence
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 & 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.
David P. Gilkey  
D.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 expertise 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 co-authored 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-Latino 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 all-terrain 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 blazng 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 compliance, 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 ensuring 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.

Dr. Janis K. Jansz
RN, RM., Dip. Tch, BSc. Grad. Dip. OHS, MPh, PhD, FSIA
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 1998 Dr. Jansz 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.
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

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

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).

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.)

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

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.

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 is 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.

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

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.

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.

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.
Lourrinda has been a part of several multimillion/billion dollars in the United States oil and gas industry. She has safety experience in managing both general and construction projects. She has shown leadership in safety, environment, security, inspection, construction 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 doctorates. 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 Perceptual 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 construction 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.

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.

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, CSIO, 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.

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.

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 Bor ing & 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.