



SPEAKER BIO AND DESCRIPTION OF TOPICS

AIHA ALBERTA SPRING PDC AND SYMPOSIUM 2021



MARCH 17, 2018
AIHA ALBERTA LOCAL SECTION



JONATHAN KLANE, M.S.Ed., CIH, CSP, CHMM, CIT

Director of Risk Management and Safety Education

BioRAFT

About: He focuses on the challenges facing us and creating opportunities and solutions for the greater EHS community.

As part of the Risk Innovation Lab at Arizona State University, he has studied how stories, narratives, safety culture, and other dynamics affect our risk perceptions and behaviors.

In his Ph.D. program in Human & Social Dimensions of Science & Technology at ASU, he studies stories/narratives and persuasion theory as they affect our cognitive biases, risk perceptions, and decision-making. This has brought greater clarity to why we tend to make decisions that don't always seem logical via data but are

both intuitive and explicable when viewed through the sciences of stories, risk, cognition, and persuasion theory. He now works hard to solve EHS challenges using these research areas in his new role with BioRAFT by engaging with peers and others, problem-solving, and providing useful and thought-provoking content to the research and EHS communities.

Title: The science of stories: How do they alter our risk views?

Stories and narratives are more powerful than data and info. We often wonder why people make decisions based on anecdotes. Yet, when we look at the literature on them and decisions, many strengths come to life when viewed through a scientific lens.

Using narratives, we will learn:

- How transportation into a story and identification with a character enhances our connection to risks?
- Why stronger emotional content has a stronger effect on our behaviors and us?
- How a good story can demonstrate causation effectively?
- How stories help us make sense of our world?

Learning Objectives, by the end of the session, learners will be able to:

- Explain how and why emotionally laden stories carry a greater affect with us
- Describe the science and research behind narrative and stories
- Use stories and narrative more effectively to enhance risk perceptions



Michelle Kutz, ROH, CIH

OHS Officer

Red Deer College

About: She is both an American Board Certified Industrial Hygienist and a Canadian Board Registered Occupational Hygienist with over 20 years of experience in the Occupational Health and Safety (OHS) profession. Her educational background includes a Bachelor of General Arts and Science from the University of Athabasca and a diploma in Occupational Hygiene from Mount Royal University. She has served as the Education Director and Executive Secretary with the Alberta AIHA, as the Central and Western Provinces Director with the Canadian Registration Board of Occupational Hygienists (CRBOH) and as the CRBOH representative on the Alberta Society of Health and Safety Professionals (ASHSP) governing board. In addition, started her career as a Radiation Safety Officer at the University of Calgary. She enjoys traveling the world and spending time with her husband, kids and animals.

Title: COVID-19 Developing an Exposure Control Plan



Cady Bush

Sales Specialist
(Personal Safety Division)
3M Canada

About: She has been working with 3M Canada for 3 years. Her role includes supporting customers in Alberta, British Columbia, NWT, and the Yukon, responsible for the entire portfolio of 3M safety products.

Prior to her role at 3M Cady interned on the Southwestern Ontario Branch of Canadian Manufacturers and Exporters, still serving as board secretary.



Stacy Richardson

Application Development
Professional (Personal Safety
Division)
3M Canada

About: She has been working with 3M Canada for 17 years with Industrial Hygiene Technologist (IHT). Her role includes technical support on the reusable and disposable respiratory protection product line, protective coveralls product line and services/training for respiratory protection business.

Prior to her current position, she was an inside sales representative for 3M Personal safety division. She has held several prior positions at 3M, including technical service representative for Western Canada and Industrial hygienist for 3M's Corporate Environmental Health and Safety Division.



Adam Hayden

Respiratory Specialist
3M Canada

About: His role has coverage of Alberta, BC, NWT and Yukon territory and responsible for leading the respiratory protection portfolio with a wide variety of customers. He is also responsible for technical support to the team of 7 3M Safety Specialists located throughout BC and AB.

Prior to his role as 3M Respiratory Specialist, Adam spent 7 years as the 3M Safety Specialist for the Edmonton East and NE Alberta territory. During his time in this role, he was responsible for the entire portfolio of 3M safety products and primarily worked with large-scale oil and gas customers.

Title: Respirators during the Pandemic

Beginning with a review of respiratory protection commonly used to protect against bioaerosols, such as the virus causing COVID-19, we will discuss other filtering face piece respirators that have entered the market because of the pandemic. In addition to this, we will go over the proper steps to take with suspected fraudulent product, as well as respirators with exhalation valves and their relation to source control. As we move into 2021, we will also discuss 3M's Brockville manufacturing plant and the new Canadian supply of filtering face piece respirators.



Dr. Shawn Gibbs, PhD, MBA, CIH

Dean, School of Public Health

Texas A&M University

About: He led the university COVID-19 response. He is an industrial hygienist whose expertise is in the disruption of highly infectious diseases, such as COVID-19 and Ebola virus disease. His research has helped to determine national policies, procedures, and best practices to respond to highly infectious diseases. He served as Director of Research for the Nebraska Biocontainment Unit (NBU),

the NBU became critical to the fight against Ebola and other infectious diseases. He was a founding faculty member of the National Emerging Special Pathogens Training and Education Center (NETEC), and works with many organizations on their highly infectious disease response. Dr. Gibbs has previously received the AIHA's Edward J. Baier Technical Achievement Award and is a current AIHA Distinguished Lecture.

Title: Why highly infectious diseases responses need an industrial hygienist and preparing the industrial hygienist to respond?

This will provide background on the highly infectious diseases that have elicited North American response over the last five years (e.g. MERS-CoV, COVID-19, Nipah virus, Ebola virus disease, Lassa Fever) and our industrial hygiene research in the area. This will include but not limited to current preparedness approaches to address a variety of highly infectious diseases, considerations for selection of decontamination products and procedures, air and ground transport considerations to prevent occupational exposure, waste handling, laboratory considerations, and risk communication. We will also discuss the invaluable role industrial or occupational hygienists can have in this area, and close with Questions & Answers.



Dr. Lidia Morawska, PhD

- Professor, Queensland University of Technology (QUT), Brisbane, Australia
- Director, International Laboratory for Air Quality and Health at QUT
- Adjunct Professor, Institute for Environmental and Climate Research (ECI), Jinan University, Guangzhou, China
- Vice-Chancellor Fellow, Global Centre for Clean Air Research (GCARE), University of Surrey, UK
- Co-Director – Australia, Australia-China Centre for Air Quality Science and Management

About: She is a Professor at the Queensland University of Technology (QUT) in Brisbane, Australia, and the Director of the International Laboratory for Air Quality and Health (ILAQH) at QUT, which is a Collaborating Centre of the World Health Organization on Research and Training in the field of Air Quality and Health. Professor Morawska also holds positions of Adjunct Professor, Institute for Environmental and Climate Research (ECI), Jinan University, Guangzhou, China and Vice-Chancellor Fellow, Global Centre for Clean Air Research (GCARE), University of Surrey, UK. She is a co-director of the Australia-China Centre for Air Quality Science and Management. She conducts fundamental and applied research in the interdisciplinary field of air quality and its impact on human health and the environment, with a specific focus on science of airborne particulate matter. Professor Morawska is a physicist and received her doctorate at the Jagiellonian University, Krakow, Poland for research on radon and its progeny. Dr Morawska is an author of over eight hundred journal papers, book chapters and refereed conference papers. She has been involved at the executive level with a number of relevant national and international professional bodies, is a member of the Australian Academy of Science and a recipient of numerous scientific awards.

Title: Designing Building HVAC Systems to Minimize Transmission of Airborne Viruses



Adam Marczak

Regional Sales Manager for North American
Svantek Sound & Vibration Instrumentation

About: He has a B.Sc. in Civil Engineering & M.Sc. in Applied. He previously worked as an Acoustic consultant in the Civil Engineering field in Sweden and as a Vibroacoustic Engineer in the Automotive Field – both employments were measurement heavy giving me a solid background in understanding the way sound propagates in air and vibrations in structures. In the field of Applied Acoustics, he is the most interested in the Human perception of sound & vibration

in general and the growing knowledge on the negative effects on prolonged noise exposure.

Title: Validation Methods for Unattended Noise Exposure Measurements

In our new isolated and home-based Post-Covid reality, the “Do It Yourself” approach to measure many occupational hazards will become the new norm. In our Sound & Vibration realm, personal sound exposure meters (dosimeters) will be set up by Industrial Hygiene Professionals remotely and then mailed to industries who will perform unattended full working day occupational noise measurements. The inability to supervise such measurement puts a big emphasis on measurement validation. How do we know that the worker actually wore the dosimeter? How can we tell if the Sound Pressure Level measured was caused by a legitimate source or by a bump of the microphone or a non-occupational sound source event? How can any conclusion be drawn based on a measurement you did not oversee? This study will present the available resources in today’s noise dosimetry market. We will investigate possible sources for willing or unwilling falsification of dosimetry measurements, how to counteract them and ensure that an unattended measurement session is as valid as an attended one.



Lisa Chen

Executive Director of OHS Program Delivery
Government of Alberta

About: She has undergraduate degrees in Microbiology and Environmental Health and a Master's degree in Occupational Health from the University of Alberta. She worked with the Calgary Health Region, Health Canada and Petro-Canada (Suncor) prior to joining the Government of Alberta.

During her 15-year career with OHS, She has worked as an OHS Officer, Effective Practices Specialist, and Manager of Investigations. She has held two Director portfolios; one in policy, as well as leading front line delivery teams of OHS officers, before becoming the Executive Director of OHS Program Delivery. Currently, she leads a team of over 200 staff including OHS officers, Investigators and Specialized Professional Services staff. These teams work with Alberta job creators and workers to monitor for compliance with Alberta's OHS legislation.

Outside of work, Lisa enjoys running, downhill skiing and spending time with her husband and children.

Title: Regulatory Update: Bill 47



Jim Cornish

Gasmet Technologies Inc.

About: He has received a B.Sc. degree in Applied Chemistry from Deakin University, Geelong, Vic. Australia. Since 1986, He has been actively involved in the field of environmental instrumentation as applied to measuring toxics in air samples whether from ambient, emissions or process sources. He has gained extensive hands-on experience with many field analytical measurement technologies including Gas Chromatography and optical measurement technologies such as NDIR, Photoacoustic IR, NIR, UV and more recently FTIR. In 2008, He joined Gasmet Technologies inc., the North American subsidiary of

Gasmet Technologies Oy a Finnish manufacturer of industrial FTIR multigas analyzers to provide application, instrumentation and technical support to Gasmet customers and representatives. Jim is actively involved in the AIHce Real Time Detection Chemical Detection systems PDC.

Title: FTIR Gas Analysis: How to identify & quantify unknown toxic gases



Paul Esposito, CIH, CSP

President and Owner
STAR Consultants, Inc.

About: With almost 40 years of technical experience, he has a Master's in Health and Safety from Johns Hopkins University, is a Certified Industrial Hygienist, a Certified Safety Professional and certified as a Management Systems auditor.

Based in Annapolis, Maryland, Mr. Esposito assists STAR customers worldwide in the implementation, delivery and assessment (audit) capabilities of EHS programs and management systems. Some of his specialty areas include:

- Risk assessment and management,
- Auditing and audit program development
- Leading metrics (to include risk-based metrics utilizing a balanced scorecard approach),
- Management systems development
- Voluntary Protection Program surveys and inspections.
- Expert Witness services.

Title: A Balanced Set of Metrics: The New Measure of Health and Safety Performance

AIHA, in their Leading Health Metrics publication of September, 2020, used the term Balanced Set of Metrics as the new measure of H&S performance. No longer are leading or lagging metrics, alone, good enough to tell the story and influence results. They balance metrics by measuring recognition, evaluation, and control, with a set of interrelated metrics, primarily leading metrics. The approach is derived from the concept that there is no one metric that can truly measure anything important, leading or lagging. Often, the more related leading metrics are, the better lagging metrics can be predicted and influenced.