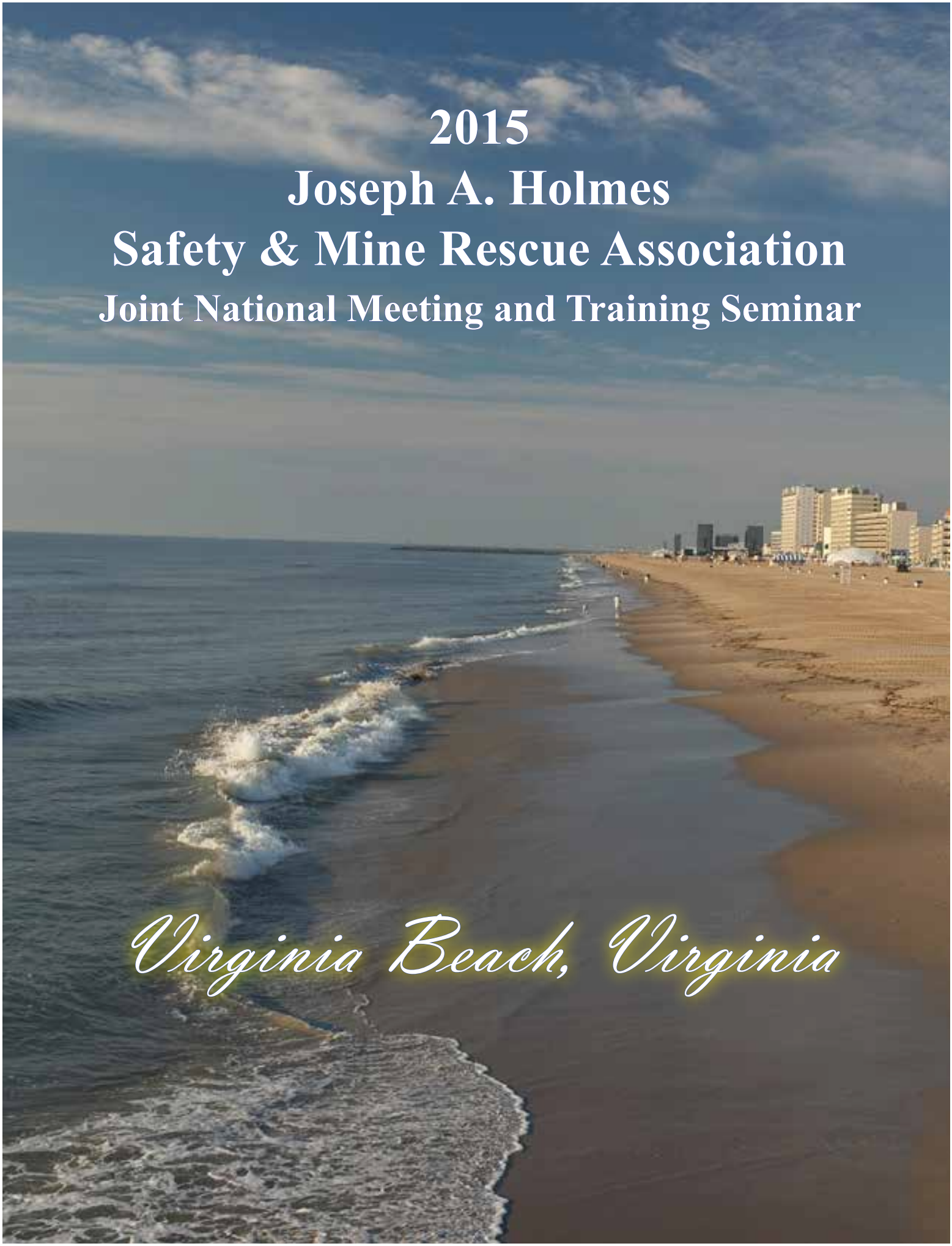
2015
Joseph A. Holmes
Safety & Mine Rescue Association
Joint National Meeting and Training Seminar
Virginia Beach, Virginia

2015
Joseph A. Holmes
Safety Association National Executive Officers

President
Sam Scribe, PA (Contractor)

1st Vice-President
Jeffery Kravitz, PA (Federal)

2nd Vice-President
Mark Zinser, MI (Labor)

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Treasurer
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2015
Joseph A. Holmes Mine Rescue Association
National Executive Officers

President
Jim Vicini

Secretary
Jeffery Kravitz

Treasurer
Richard West

Coal
Vice President – Mine Rescue Teams – Ronnie Smith
Vice President – Trainers – Don King
Vice President – Management – None (President is a member of this group)
Vice President – Labor – Dennis O'Dell
Vice President – States – Joe Sbaffoni
Vice President – Federal – Kevin Stricklin

Metal/Nonmetal
Vice President – Mine Rescue Teams – Steve Setzer
Vice President – Trainers – Sammy Linville
Vice President – Management – Randy Squires
Vice President – Labor – Mike Wright
Vice President – States – Bill York-Feirn
Vice President – Federal – Neal Merrifield

Vice President – Vendors – Kent Armstrong

Welcome

Welcome to the 2015 Joseph A. Holmes Safety & Mine Rescue Association's Joint National Meeting and Seminar. We appreciate your dedication and commitment. As a way of carrying on the tradition of Dr. Joseph A. Holmes, our national committee hopes to impart its enthusiasm for mine safety and health onto others by offering this annual program. Our committee designed the program to enhance the new developments in mining safety and health, to give you the opportunity to network in small groups, and to share knowledge and experiences that will lead to a safer and healthier environment for our miners.

Dr. Joseph A. Holmes was passionate and determined to improve the health and safety of miners. His great ambition and remarkable diplomacy skills made it possible for him to accomplish amazing feats in a short time. He was an advocate for researching new and safer methods of using explosives and electricity in the mining industry as well as efficient methods of rescuing and educating miners.

As the one who proposed the creation and organization of the U.S. Bureau of Mines and having become its first Director, he was designated the Founding Father of Mine Safety. He had the Bruceton Mine built as a research laboratory in order to safely conduct experiments in a simulated mining environment. The Bruceton Mine is still being used for experiments today.

One of Dr. Holmes' greatest accomplishments was negotiating with the Pullman Company to donate railroad cars for use in mine rescue work. This was an innovation that brought mine rescue to a new level of existence. It provided an efficiency that was thought impossible. The efficient Dr. Holmes made the most of the new technology by activating the railroad cars during idle times for educational purposes. The cars along with experts traveled to mining operations to train miners in first aid and mine rescue techniques including the use of a breathing apparatus that supplied oxygen to the rescuer.

The research he set in motion on explosives resulted in major discoveries that changed the mining industry. It led to the development of "Permissible" explosives that reduced the danger of disastrous explosions in mines where gas or dust was found.

Dr. Holmes demonstrated the explosibility of coal dust by setting off an explosive charge in the Bruceton Mine. This was done to educate miners and others that coal dust has explosive qualities even with out the presence of methane. Dr. Holmes said, "No amount of writing or talking could be so forcible in the teaching of such a great lesson."

About a year after his death, twenty-four leading national organizations formed The Joseph A. Holmes Safety Association. In the 1920s, the Association began to organize local chapters throughout the United States.

The Joseph A. Holmes Safety Association consists of a national council, state councils, district councils, and local chapters. The chapters are made up of Holmes members at a single organization, for instance, a mine or supply company. Members from the various chapters assemble at the council meetings to network with others to find solutions and to overcome their common challenges.

The objectives are to prevent fatalities and injuries and to improve health and safety among officials and employees in all phases of mining. These objectives guide and inspire all of the Association's activities.

In recent years, the Association formed the Professional Miner Program where successful experienced miners are encouraged to mentor and educate the new inexperienced miners. These Professional Miners embrace safety and health as values, which are critical to mining the many natural resources needed to keep this country strong and growing.

On June 6, 2013, in Virginia Beach, Virginia, the members of the Joseph A. Holmes Safety Association overwhelmingly approved a constitutional amendment and changes to their by-laws to create a mine rescue organization within Holmes – the Holmes Mine Rescue Association. This action reestablished mine rescue as an important function within the Joseph A. Holmes Association, which was created in 1916.

For several years, the Mine Safety and Health Administration has sought, within the mining community, to address the gaps in mine emergency response, particularly those identified in recent tragedies. At three mine rescue summits and several other events held with the mine rescue community on mine emergency response gaps, we have discussed the need for a national mine rescue structure to address many mine emergency response issues. The re-establishment of Holmes as a national organization to support and provide needed guidance for mine rescue is the solution.

Together, we can continue to improve the health and safety of our Nation's miners.

Agenda

Monday, June 8, 2015

2:00 p.m. - 5:00 p.m.	Registration	Atrium

Tuesday, June 9, 2015

8:00 a.m. - 5:00 p.m.	Registration	Atrium
10:00 a.m. – 11:30 a.m.	**Joseph A. Holmes Safety Association (JAHSA) Executive Committee Annual Meeting**	Cape Henry
11:30 a.m. – 1:15 p.m.	Lunch (on your own)	
1:30 p.m. – 5:00 p.m.	**Welcoming Remarks**	
Robert Glatter Secretary, Joseph A. Holmes Safety Association		
Sam Scribe President, Joseph A. Holmes Safety Association		
Jeffery Kravitz Secretary, Holmes Mine Rescue Association		
Jim Vicini President, Holmes Mine Rescue Association		
Jeffrey Duncan Director, Educational Policy and Development		
Joseph Main Assistant Secretary of Labor for Mine Safety and Health		
Opening Session:		
Robert Weston "Effective Training Techniques: Tips, Tools & Technology"		
John Urosek "An Update on Mine Emergency Response at MSHA"		

Wednesday, June 10, 2015

8:00 a.m. – 9:15 a.m.	**Sam Scribe –** "Supervisory Training"	Cape Henry
	Kent Armstrong – "New Mine Rescue Technology"	False Cape
	Deborah Combs – "Task Training"	Croatan
9:15 a.m. – 10:15 a.m.	**Gregory Meikle –** "Continuous Personal Dust Monitoring"	Cape Henry
	Bill York-Feirn, David Stalfort, & Tom McWeeney – "Mine Emergency Risk and Readiness Assessments - A Pro-Active Approach	False Cape
	Rick Smallman – "Crane Safety"	Croatan
10:15 a.m. – 10:30 a.m.	Refreshment Break	
10:30 a.m. – 11:30 a.m.	**Steven Sandbrook –** "Accident Prevention"	Cape Henry
	Ken Ball – "Mine Rescue Day Planning"	False Cape
	Ken Russell – "Part 48"	Croatan
11:30 a.m. – 1:00 p.m.	**Lunch (JAH Buffet)**	
1:00 p.m. – 2:00 p.m.	**Jeffrey Hoblick –** "Part 46: Setting the Record Straight"	Cape Henry
	Rodney Shabbick – "Special Medical Response Team"	False Cape
	Wes Kenneweg "Virtual Reality in Mine Rescue and Mine Safety Training"	Croatan
2:00 p.m. – 3:15 p.m. (continued on next page)	**Glen Poe –** "Part 50: Report/Investigate - Why?"	Cape Henry
	Tom McWeeney, Bill York-Feirn, & David Stalfort – "Mine Emergency Risk and Readiness Assessment - Self-Assessment Governance"	False Cape

	William Gerringer – "Contractor Responsibilities"	Croatan
3:15 p.m. – 4:15 p.m.	**David Elkins –** "Finding All of the Causes of an Accident"	Cape Henry
	Joseph Flick – "Preventing Emergencies in Underground Mines"	False Cape
	Phil Carrier – "The Canary Through-the-Earth (TTE) Communications System"	Croatan
4:15 p.m. – 5:15 p.m.	**Holmes Mine Rescue Association (HMRA) Executive Committee Annual Meeting**	**Vista Del Mare (6th Floor)**
	Otis Russell – "Electrical Qualification and Competence Requirements"	False Cape
	Vincent Nicolau – "Surface Haulage Safety"	Croatan

Thursday, June 11, 2015

8:00 a.m. – 11:30 a.m.	**State Grants Meeting**	Croatan
8:00 a.m. – 9:00 a.m.	**Ben Hart –** "101 Ways to Supercharge Your Training"	Cape Henry
	Paul Ream – " SMART Self-Contained Self-Rescuer for Escape"	False Cape
9:15 a.m. – 10:15 a.m.	**Josh Savit – "**Predicitive Safety"	Cape Henry
	Josh Brady – "WVU Academy for Mine Training and Energy Technologies"	False Cape
10:30 a.m. – 11:30 a.m.	**Donnie Coleman & Don Dickerson –** "Rescue at Keystone Mine"	Cape Henry
	Jacqueline Jansky & Xander Phoenix – "Mine Rescue and Self-Escape"	False Cape
11:30 a.m. – 1:00 p.m.	**Lunch (on your own)**	
1:00 p.m. – 2:00 p.m.	**Vincent Nicolau –** "Surface Haulage Safety"	Cape Henry
	Xander Phoenix – "Preventing Posttraumatic Stress in Emergency Rescuers: A Look Into the Effectiveness of Critical Incident Stress Debriefing"	False Cape
2:15 p.m. – 3:45 p.m.	**Joseph A. Holmes Safety Association (JAHSA) General Meeting**	Cape Henry
	Break	
6:00 p.m. - 8:00 p.m.	**Dinner & Awards Banquet**	

Presentations

101 Ways to Supercharge Your Training

Presenter: Ben Hart

Attention Trainers. Do your training sessions lack pizzazz? Do your trainees leave your sessions like a herd of thundering turtles? Through the use of "Edu-Tainment," this session will demonstrate proven techniques, developed and perfected over 43 years, which will transform your trainees into more safety-motivated employees who will look forward to each training session. Regardless of your experience level, you'll learn how to best use and apply R&D techniques, and will take away something you can use.

Accident Prevention

Presenter: Steven Sandbrook

This presentation is designed to provide discussion on just what is your primary objective, and does everyone know it. Safety has always been measured the same since it became a "science" of sorts, and tremendous progress has been made. Yet, with all we've learned about safety, the technology, the training, each year the same exact accidents occur. In recent years, "Zero Injury" or "The Injury Free Workplace" have been terms used to describe the "Primary Objective of a Company's Safety Culture." Is this practical or are they just "good" goals to shoot for? With all the rules, regulations and oversight, the individual miner is responsible for their own safety. This presentation is designed to provide discussion on just what is your primary objective, and does everyone know it.

An Update on Mine Emergency Response at MSHA

Presenter: John Urosek

MSHA is making significant improvements to its emergency response to ensure all mine rescue teams and state agencies obtain compatible systems. This presentation will discuss improvements to MEO and the current status of the Underground Communications System, the interim measures to advance the use of the system, and the final objectives.

Continuous Personal Dust Monitoring (CPDM)

Presenter: Gregory Meikle

This presentation will discuss the requirements for industry in using the Continuous Personal Dust Monitor (CPDM) and the utility to the miners' health protections that the near real time results from the CPDM will provide along with the other provisions of the rule.

Contractor Responsibilities

Presenter: William Gerringer

As a mine operator, are you making your contractors aware of the necessary information they need to know prior to performing their services at your mine? As an "independent contractor" do you understand ALL of MSHA's regulations including training requirements and the mandatory safety and health standards? Are you aware of the first aid training requirements, workplace exam requirements, and inspection procedures for contractors? Do you have your Contractor ID number? Are you submitting quarterly reports? These questions and more will be talking points of this presentation not only for compliance reasons but also to assist you with implementation of an effective safety and health program.

Crane Safety

Presenter: Rick Smallman

This presentation will highlight the simple solution to Rigging and Signaling Problems by training on the proper inspection, selection, and connections of rigging hardware and the importance of a qualified signal person.

Effective Training Techniques: Tips, Tools and Technology

Presenter: Robert Weston

This session will focus on "classroom" training techniques - What the experts say, what the studies suggest, what the actual participants think about sitting through a training session, what makes it effective, techniques to ensure 100% participation, tips to make the training not just compliant but engaging, and the technology that can make all these things occur.

Electrical Qualification and Competence Requirements

Presenter: Otis Russell

This presentation will highlight Electrical Qualification & Competence (Coal/MNM): Qualification vs Competence (Definition); Coal/MNM Requirements, 30 CFR Parts 75/77/56/57; Who may perform Electrical Work (Coal/MNM); Persons must be able to perform work safely; Fatalgrams (Coal/MNM).

Finding All of the Causes of an Accident

Presenter: David Elkins

When investigating mining-related accidents, it is important to investigate all of the potential causes of the accident. Doing so will help you find, and correct, all of the root causes of the accident. This workshop will discuss this concept, and provide material to assist with finding all of the causes of an accident.

Mine Emergency Risk and Readiness Assessments – "A Pro-Active Approach"

Presenters: Bill York-Feirn, David Stalfort and Tom McWeeney

A pro-active toolset for underground mine operators to self-assess the risks associated with a specific mine and methods to prevent mine emergencies, and the preparedness to respond to an emergency were developed through a partnership between MSHA, the mining industry, states and industry associations. Four models were developed that: (1) assess the mine-specific risks at a particular mine and evaluates (2) the mine's overall preparedness to respond to an emergency, (3) readiness of mine rescue teams, and (4) readiness of responsible persons to execute the emergency plan. Brookwood-Sago funding was awarded to the Colorado Division of Reclamation, Mining & Safety and the Public Leadership Institute to calibrate the models at underground coal mines in Colorado and West Virginia for relevancy, ease of use and to provide valuable insight to mine operators regarding their mine emergency risks and readiness to respond. The results of 7 assessments conducted in 2013-2014 will be reviewed. Mine operator feedback has been extremely positive pinpointing areas that need attention and identifying best practices that can be shared industrywide.

Mine Emergency Risk and Readiness Assessment "Self-Assessment Governance"

Presenter: Tom McWeeney, Bill York-Feirn, and David Stalfort

This presentation will highlight that despite recent advances in mine safety, the coal mining industry continues to face risks and vulnerabilities that are not easily obvious, or are such a low probability of occurrence that action required to address them is often deferred or even ignored. Addressing "low consequence, high risk" concerns is a very complex management concern, which is not often high on the management agenda of a busy organization.

The primary value of the self-assessments is that many serious risks and vulnerabilities are not easily discernible or are such a low probability of occurrence that action required to address them is often deferred or even ignored. Dr. McWeeney is currently proposing that industry and government work together to develop and implement a "governance" structure that will assist coal mine management in initiating self-assessments, overseeing implementation, collecting the data and analyzing the results, consulting on corrective action, identifying industry trends, and establishing an evidence-based system of performance metrics that will demonstrate progress both for individual mines and on specific problematic issues across the industry.

Mine Rescue and Self-Escape

Presenters: Jacqueline Jansky and Xander Phoenix

Improving mine emergency response has long been a focus of the National Institute for Occupational Safety and Health (NIOSH), Office for Mine Safety and Health Research (OMSHR). This presentation will highlight some of our current work. Seven key areas of importance to mine rescue team members and trainers, as reported during an OMSHR study, will be discussed. Results from a study about the routes miners choose to take during an emergency evacuation will also be presented. Related emergency response training materials will be introduced.

Mine Rescue Day Planning

Presenter: Ken Ball

This session will be an open brainstorming forum on how to increase the exposure and participation for National Mine Rescue Day, to honor all the brave mine rescue workers across the country.

New Mine Rescue Technology

Presenter: Kent Armstrong

Draeger is in the process of developing several new mine rescue technologies that will aid mine rescue teams in search and rescue activities. This presentation will discuss several of these projects, and explain how mine rescue teams will benefit, including increased safety and efficiency.

Part 46: Setting the Record Straight

Presenter: Jeffrey Hoblick

This presentation will consist of an overview of Part 46 record keeping, definitions, training plans, and common mistakes found during program reviews. Also, this presentation will be a basic overview of the 30 CFR Part 48 regulations and policies. There will be discussion regarding how to become an "Approved" (card holding) instructor and training plan requirements. You will be presented with pertinent new warehouse materials available that include additional compliance assistance questions and answers.

Part 48 Training Requirements

Presenter: Ken Russell

Part 48 applies to all mining operations other than Surface Stone, Surface Clay, Sand and Gravel, Surface limestone, Colloidal Phosphate, and Shell Dredging. These previously listed operations are the only operations subject to Part 46 of 30 CFR. All other mine operations are subject to Part 48 of 30 CFR.

Part 50: Report/Investigate - WHY???

Presenter: Glen Poe

This presentation consists of an overview of Regulations, Accident, Injury, & Illness Defined, Immediate Notification (A Mandatory Standard), Preparation/Submission of 7000-1/7000-2 Forms, Maintenance of Records, Verification of Reports, MSHA Auditing Authority, and Recent Case Law Summaries.

Predictive Safety – Using Data To Find Leading Indicators In Safety

Presenter: Josh Savit

Safety is measured in lost workdays, lost production, and decreased value of that production. Now more than ever you need a 360-degree view of safety. Utilizing forward thinking methods such as Prism Fatigue Management, Predictive Compliance as well as other forms of data collection and management we have created Predictive Safety. We will discuss the varied ways operators, mine managers, and HSLP personnel can use this information as tools in a proactive program to reduce lost work days, and other incidents, as well as MSHA citations and penalties that have an overwhelming effect on an operation. In doing this one can set up KPI's and creating benchmarks to reduce the cost both in dollars and downtime.

Preventing Emergencies in Underground Mines

Presenter: Joseph Flick

This program will describe and display mine safety training materials (videos, hand-outs, PowerPoints) developed by the Penn State Miner Training Program for underground coal and stone mines in the areas of pre-shift examinations, fire prevention, explosion prevention, roof control, ventilation and pre-operational checks. The instructor will describe/display these materials and discuss methods to freely access them for use in your mine safety training programs.

Preventing Posttraumatic Stress in Emergency Rescuers: A Look Into the Effectiveness of Critical Incident Stress Debriefing

Presenter: Xander Phoenix

This presentation will discuss how members of rescue teams are more likely to be exposed to life-threatening events than other miners. Because of these added risks, they are also more susceptible to develop posttraumatic stress symptoms. Research has been done to explore the influence of critical incident stress debriefing on the development and severity of posttraumatic stress symptoms in similar population such as emergency service personnel. Designated to address the importance of critical-incident stress debriefing in reducing the potential development of Posttraumatic Stress symptoms, subjects of this research were emergency service personnel who were directly involved in a critical incident in the course of their duties. The results demonstrated that participation in a critical incident stress debriefing reduces the likelihood and severity of posttraumatic stress symptoms. Similar results can be expected with populations in the mining industry, including miners that experience a critical incident such as fire, explosion, or other life-threatening event, as well as with mine rescue team members.

Rescue at Keystone Mine

Presenters: Donnie Coleman and Don Dickerson

This presentation will highlight the underground mine rescue that took place on January 23, 2015, at approximately 3:15 p.m. Mr. Raymond Simpson from Bluestone Coal Corporation was notified that a person had been missing since 1:00 a.m. and had not been seen since. He was informed that the missing person had been known to enter the old Keystone No. 1 Mine to look for copper. Mr. Simpson notified MSHA and the WV Office of Miners' Health, Safety and Training and it was decided to initiate a rescue and to activate the local mine rescue teams. With oxygen levels as low as 12.8 % outgassing at the portals, there was concern that this may be more of a recovery operation than a rescue; however, the mine rescue teams and all involved did not give up and were able to locate and rescue the missing person who was turned over to local EMS for treatment and then transported to a local hospital.

"SMART" Self-Contained Self-Rescuer (SCSR) for Escape

Presenter: Paul Ream

To meet new requirements for Closed Circuit Escape Devices (SCSRs) and to introduce NEW TECHONOLOGY to its market and customers, CSE Corporation has developed a "SMART SCSR". This new SCSR (the SR2000) is designed to meet and exceed all of the design and performance requirements of this new regulation. It also comes equipped with its own on-board DIAGNOSTICS SYSTEM called Vital Check. This presentation will discuss the conditions that are monitored, interpretation of the indicator, and the advantages to the miner and mining operator in improved compliance, lower overall costs, and reduced risk.

Special Medical Response Team (S.M.R.T.)

Presenter: Rodney J. Shabbick

This presentation will provide an overview of the Special Medical Response Team's (S.M.R.T.) unique capabilities to provide advanced medical mine rescue care while operating from the "fresh air base" during a mine emergency. S.M.R.T. is a voluntary group of Emergency Dept., Trauma and Anesthesia Physicians, Nurse Practitioners, Flight RN, Paramedics, EMTs and support personnel founded in 1984 to respond to underground mining incidents and other industrial situations that require specialized advance training and equipment. The original and continued mission of the Team is to operate from the Fresh Air Base at a mining incident to provide advanced life support medicine to the mine rescue team members and any injured or trapped miners.

Supervisory Training

Presenter: Sam Scribe

The objective of this program is to familiarize all levels of supervision with mine law and governing 30 CFR standards and conduct safe production under those rules and regulations. This includes accident information pertaining to supervisors.

Surface Haulage Safety

Presenter: Vincent Nicolau

This presentation will highlight the common safety concerns related to surface haulage equipment.

Task Training

Presenter: Deborah Combs

This workshop will focus on the importance of providing task training, fatal accidents that have occurred due to a lack of effective task training, and possible causes for failing to provide this most critical training. We will discuss some guidelines for providing effective task training and assistance available to operators and contractors in developing and implementing a task training program that not only complies with Part 48/46, but provides quality training for our miners.

The Canary Through-the-Earth (TTE) Communications System

Presenter: Phil Carrier

The "holy grail" of communications for use in underground mining - where miners carry portable, wireless radios that require no installed infrastructure – was envisioned by Congress when passing the MINER Act. A key technology to realizing this vision is called Through-The-Earth (TTE), where low frequency magnetic signals travel through the overburden to provide voice and text communications between the surface and underground. It has been possible for many years to generate and receive the TTE magnetic signals using large and heavy infrastructure devices, but the size, weight and cost of these systems have made them impractical for use in underground mining. Tremendous advances have recently been made in TTE technology that addresses these shortcomings. A new, MSHA-approved TTE system named Canary was developed by Vital Alert and is now available from Innovative Wireless Technologies (IWT). This presentation will present the Canary system, describe exciting performance test results from several coal and hard rock mines, and present several use cases for the system – as a secondary system that is integrated with a primary communication system, as well as part of an overall communications capability in support of mine rescue operations.

Virtual Reality in Mine Rescue and Mine Safety Training

Presenter: Wes Kenneweg

This presentation will outline a training system that uses Virtual Reality in order to create a "realistic" environment best able to fully expose and test mine rescue teams in an environment that is as close as possible to that which they will be expected to operate, while still guaranteeing their safety. QinetiQ, in conjunction with Coal Services in New South Wales (NSW), Australia, has successfully developed this system, helping to transform the way in which training is delivered and contributing to a reduction in lost-time injury rates against a backdrop of increased production.

WVU Academy for Mine Training and Energy Technologies

Presenter: Josh Brady

This presentation will highlight West Virginia University's (WVU) Mining Extension program, housed in the Benjamin M. Statler College of Engineering and Mineral Resources, and recently celebrated its 100th year of providing hands-on instruction to the members of the mining industry. The program works cooperatively with state and federal agencies, academic departments at WVU, and mining companies in West Virginia and around the country.

Presenters

Armstrong, Kent – Mr. Armstrong is a Global Business Development Manager for Segment Mining. Other positions he has held include Draeger Sales Manager of Mining in the USA, Canada, and Mexico. Draeger Business Manager of Mining in North America, MSA Regional Sales Manager of Mining and Miner at Falconbridge Nickel Mines in Sudbury, Ontario. His organizations involvement includes: Holmes Safety & Mine Rescue; CSA Z94.4 Standard for Respiratory Use, Care and Maintenance in Canada and CSA Z180.1 Compressed Breathing Air Standard in Canada.

Ball, Ken – Mr. Ball is an Underground Miner for Tata Chemicals in the state of Wyoming. His primary duties include maintenance of shafts, fans and hoists at the mine. He is currently a member of the Holmes Mine Rescue Executive Board, a member of the Underground Mine Rescue Team for Tata Chemicals, and an Executive Board Member for USW Local 15320.

Brady, Josh – Since 2014, Mr. Brady is the Associate Director of the Mining and Industrial Extension, housed in the Benjamin M. Statler College of Engineering and Mineral Resources at West Virginia University. He started his career with the Mine Safety and Health Administration (MSHA) when he was a co-op student receiving a Bachelor's of Science degree in Mechanical Engineering and Technology from Fairmont State University. Mr. Brady received certifications as a Mine Inspector in 2003, and is a Certified State of West Virginia Mine Foreman. While at MSHA, in addition to his regular inspection duties, he was an accident investigator, and a proud member of the Mine Emergency Unit. In this roll, Mr. Brady spent many weeks at the Upper Big Branch Mine Disaster, for which he received the Secretary of Labor's Honor Award.

Carrier, Phil – Mr. Carrier is the Vice President of Sales and Marketing of Innovative Wireless Technologies (IWT). He joined IWT in 2007 with over 25 years of marketing, new business development, and applications engineering experience within the wireless industry. Prior to joining IWT he spent 17 years at Lucent Technologies and Agere Systems where he held various marketing and product line management roles. Mr. Carrier also contributed to successfully growing several start-up wireless businesses for cellular handsets and Bluetooth chipsets. Since joining IWT he has been primarily responsible for sales and marketing of commercial products. Mr. Carrier has played a key role in growing IWT's wireless mesh communications and tracking solutions for the underground mining market, focused on sales, product marketing and management, and strategic partnerships. He has a B.S. degree in Electrical Engineering from the University of Massachusetts.

Coleman, Donnie – Mr. Coleman, A.S. Mining Engineering, started his Mine Rescue career while employed by Consol at the Itmann Complex in 1978, formed Southern Safety Mine Safety Consulting in 2001, and continues to be directly involved as a Mine Rescue team member/ trainer. Mr. Coleman is currently Co-Owner/Trainer of Southern Pocahontas Mine Rescue located in Welch, McDowell County, WV. Being part of the Southern Pocahontas Mine Rescue Teams,he was actively involved in the UBB Mine Rescue/Recovery and most recently in the Keystone Mine - missing person rescue. He is currently serving on the National Rules Committee for Mine Rescue Skills Competition.

Combs, Deborah – Ms. Combs is a training specialist with MSHA's Educational Field and Small Mine Services (EFSMS). She began working for MSHA in the Hazard, KY sub-district office in September 1982 and has served in several support positions until becoming an Education and Training Specialist in MSHA's Barbourville, KY District in 1996. Ms. Combs was later reassigned to the Educational Field Services (EFS) Division of the Educational Policy and Development (EPD) Directorate when it was established in 1998. From 2002 through 2009, she served as a Job Task Analysis team member assisting Coal and Metal and Non-metal (MNM) operators in conducting task analysis. Ms. Combs continues to serve as a training specialist providing education and training assistance to the mining industry.

Elkins, David – Mr. Elkins, PE, CMSP, is a mining and civil engineer who has worked in the mining and construction industries throughout the USA for over 30 years. He has been with MSHA since 1993, working as an inspector, specialist, supervisor, and accident investigator. He currently teaches Accident Investigation classes at the National Mine Health and Safety Academy in Beaver, WV.

Dickerson, Don – After working in the mining industry for seven years, Mr. Dickerson accepted a job on July 1, 1977, with the West Virginia Department of Mines (now known as the WV Office of Miners' Health, Safety, and Training) as a State Mine Inspector. There he served in many positions including Assistant Inspector-At-Large and Chief Accident Investigator. After a very short retirement in 2008, he has joined Arcelormittal as Manager of Safety for the Princeton Division.

Flick, Joseph – Mr. Flick is Director of the Miner Training Program in the Department of Energy and Mineral Engineering at The Pennsylvania State University. He conducts on-site mine safety audits, designs safety curriculum, and provides mine safety training programs for miners and supervisors in the Pennsylvania coal, and metal/nonmetal mining industries. Mr. Flick has over 30 years of mine safety training experience. He holds B.A. and M.S. degrees from Indiana University of Pennsylvania and is a CMSP.

Gerringer, William – Mr. Gerringer was born in Greensboro, N.C. and attended Alamance Community College. Prior to joining the Mine and Quarry Bureau in 1998, he was employed with Martin Marietta Materials for over 10 years. Mr. Gerringer is a frequent speaker at national mine safety conferences including TRAM at the Mine Academy, National Holmes Joint Meetings, NSSGA (National Stone, Sand & Gravel), and the North Carolina Aggregates Association. He was a certified mine safety professional and serves as Bureau Chief for the Mine and Quarry Bureau under the North Carolina Department of Labor. Mr. Gerringer's bureau has been the recipient of first place awards for 5 years in various categories for the TRAM competition materials program. He was past President for the National Association of State Mine Inspection & Training Agencies and past president of the Mine Safety Institute of America.

Hart, W. Ben – After a successful career as a teacher, salesman and trainer covering more than 40 years, Ben recently retired from over 25 years' public service as the Program Coordinator of Florida's MSHA State Grants Program, and embarked on a 'new" career path as a Safety Consultant. He is the Principal/Owner/Chief Consultant/Sole Employee of W. Ben Hart & Associates in his hometown of Tallahassee. He is a 32nd degree Mason, and serves on the Divan of Marzuq Shrine Temple, preparing to serve as its Potentate in 2016.

Hoblick, Jeffrey – Mr. Hoblick is a training specialist from MSHA's Educational Field Services and is based out of the Hebron, Ohio office. He has 21 years' experience working in the coal mining industry. Upon leaving the mining industry, he was employed with Ohio State Grants program. He worked with the Grants program for 5 years. Mr. Hoblick then accepted his current position with MSHA and is actively involved in compliance assistance education with the mining industry.

Jansky, Jacqueline – Ms. Jansky joined the U.S. Bureau of Mines in 1976. In 1982, Ms. Jansky became Technology Transfer Officer/Geologist at the Pittsburgh Research Center, a post she held for almost 15 years, and earned an M.A. in Corporate Communication. CDC/NIOSH assumed the research program from the Bureau of Mines and Ms. Jansky became officially involved in mine rescue. She had been involved with Metal/Nonmetal (M/NM) mine rescue since 1989 but this change in organizations opened the way for her activities in Coal. Since 2000, most of her research has involved development of new technologies for mine rescue teams to improve their safety and allow them to perform their jobs more efficiently. Ms. Jansky's recent efforts include developing novel training methods using Virtual Reality technology to train mine rescue team members and self-escape practices for miners in general. She has served as a mine rescue contest judge for both coal and Metal/Nonmetal.

Kenneweg, Wes – Mr. Kenneweg has been involved in the mining industry and mine rescue for more than 40 years having been employed by National Mine Service Company and Draeger. He retired from Draeger after 25 years, working internationally in the USA, Canada, Australia and Asia-Pacific. Since leaving Draeger, Mr. Kenneweg has done consulting work for a number of international companies including Draeger and QinetiQ. He is currently a Business Development Manager in the USA and Canada for QinetiQ Training and Simulation Systems. QinetiQ, based in the UK, has expertise in Virtual Reality Training Systems for the Defense Market, Fire Fighting, and Safety in Mining (surface and underground).

Kravitz, Jeffery H. – Dr. Kravitz is the Chief, Scientific Development, for MSHA Technical Support; 1st Vice President for Joseph A. Holmes Safety Association; and Secretary of the Holmes Mine Rescue

Association. He is tasked with aiding the development of new technology for mine rescue and recovery, developing methods to identify gaps that exist in mine emergency preparedness and response, and finding ways to introduce improvements in MSHA and industry responsiveness for mine emergencies. He was Technical Support's Chief, Mine Emergency Operations for over 30 years. He holds a Ph.D. and M.B.A. from the University of Pittsburgh, and a B.S.E.E. in Electrical Engineering from the Illinois Institute of Technology. He is a Registered Professional Engineer in Pennsylvania.

McWeeney, Thomas – Dr. McWeeney is a political scientist, strategic planner, management consultant, and adjunct professor of government with a 35-year record of improving performance of both government and industry with practical management tools and approaches. In 2009, Dr. McWeeney established the CSM-Public Leadership Institute (CSM-PLI), a non-profit organization that emphasizes the critical role of leadership in improving government performance, and he is currently its Executive Director. Among his initiatives have been the design, development, and implementation of an innovative self-assessment methodology that facilitates the identification and mitigation of critical vulnerabilities. The process has been used to address high-risk conditions in the FBI and several other government organizations and is now being used under an MSHA grant to work with underground coal mines to improve both the preparedness and the response to potential mine emergencies.

Meikle, Gregory – Mr. Meikle is the MSHA Chief of Health, providing specific guidance, support and metrics for all coal districts. Since 1999 Mr. Meikle has held numerous MSHA positions, such as: Specialist - D4 Mount Hope, WV; Health Specialist in the National Office, Arlington, VA; Mine Safety and Health Specialist, Accident Investigation; Assistant District Manager District 5; and District Manager of Districts 8 & 5.

Nicolau, Vincent – Mr. Nicolau is a Training Instructor at the National Mine Academy. He is credited as a former MSHA Surface Coal Inspector, Fatal Accident Investigator & Collateral CLR. He has over 8 years of MSHA experience.

Phoenix, Xander – Dr. Phoenix completed his Bachelor of Arts in Criminal Justice with an emphasis on Counterterrorism while on active duty in the United States Navy. Afterwards, he earned a Masters in Forensic Science and a Masters and Doctorate in Clinical Forensic Psychology. Alongside his studies, Dr. Phoenix specializes in Geographic Profiling, Psychological and Criminal Profiling, including terrorism and threat assessment, deception detection, as well as critical incident stress debriefing and Posttraumatic Stress Disorder. For the past four years, he has been a clinical forensic psychologist, providing services to law enforcement and emergency services as well as local populations that require psychological and crisis emergency services, including individual and group psychotherapies, psychological evaluations, crisis managements, critical incident debriefings, and psycho-education training.

Poe, Glen – Mr. Poe has 21 years of mining experience. He has served as an Underground Coal Miner, Coal Safety Manager, MSHA Metal/Nonmetal Inspector, MSHA Coal Industrial Hygienist, MSHA Training Instructor, MSHA Course Developer, and currently an MSHA Assistant Manager of Educational Field and Small Mine Services. Mr. Poe has a Master of Science in Safety Technology with an emphasis in Mine Safety.

Ream, Paul – Mr. Ream is currently Director of Respiratory Protection at CSE Corporation. He has a degree in Mechanical Engineering from the University of Pittsburgh and has taken coursework at the University of Pennsylvania and the University of Virginia. Mr. Ream has 43 years of management experience in heavy industry focusing on technology and safety. During that time he authored and co-

authored several papers and in 1991 was awarded the Herty Award for the best technical paper in the Iron and Steel annual meeting. Mr. Ream is a Distinguished member of the American Welding Society and is a member of Pi Tau Sigma, honorary Engineering Society. He has been with CSE Corporation for more than 6 years and was instrumental in the development of the current 60 minute SCSR the SRLD.

Russell, Ken – Mr. Ken Russell is a navy veteran, training coordinator for the Alabama Mining Training Consortium and the Director of the Alabama Mining Academy. He graduated from Birmingham Southern College and has a strong passion for mine safety and mine rescue. His credits include: Mine Emergency Command Center Training (MECCT), enabled command center personnel and mine rescue teams to practice disaster scenarios simultaneously for the first time and build communication and trust critical in the early stages of an emergency in an in-smoke environment, training over 200 individuals for work in mine emergencies in Alabama; Project Virtual Mine Emergency Training (VEMT), took the concepts developed in MECCT and expanded upon them by developing video training modules to be shown to critical response staff as well as the entire mine, training over 2,500 miners from seven mine operations in Alabama; developed mine training videos for common safety hazards through Project Safety Through Simulation (STS), 3-5 minute videos focusing on the most common mine safety issues.

Mr. Russell is an active member of the Alabama Coal Association, member of the Alabama Surface Safety Association, Holmes Safety Member and is in his third term as a City Council member of the City of Sumiton.

Russell, Otis J. – Mr. Russell is a Master Electrician with 37 years working experience in Industrial Electrical Maintenance in Mining, Manufacturing, and Electrical Power Generation & Distribution, 32 years' experience in Electrical Skills and Safety training. He is an MSHA approved Electrical Safety Instructor providing electrical training for qualification to perform electrical work in surface or underground coal mines and the annual 8hr Electrical Retraining for both surface and underground coal mines, and the 8hr annual Electrical Safety training for Electricians in Metal/Nonmetal.

Currently retired from Duke Energy, as a training contractor, Mr. Russell provided electrical safety/skill training for Duke Energy Plants in Indiana, Ohio, and Kentucky as requested, and in other industries. From 2009-2011, as a Duke employee, he provided Arc Flash Safety training for all of Duke Energy's Midwest employees at generating stations as part of Duke Energy's 2009 Arc Flash safety implementation program.

Sandbrook, Steven D. – Mr. Sandbrook is President of Eagle Mine Safety, which specializes in mining safety along with servicing its allied industries such as hot-mix asphalt, ready-mix concrete, site development, and road construction. He has almost three decades of experience in the field of mine safety management and is a Certified Mine Safety Professional. He holds a degree in Mine Safety from Indiana University of Pennsylvania. He provides safety training, auditing, industrial hygiene, citation litigation, expert witness testimony, and more. Eagle Mine Safety is considered one of the mining industry's most dynamic safety consulting firms in the United States. His pursuit of assisting his clients in creating a safer work environment can be summed up in a simple statement, "Get with the program or get out!" He believes in brutal honesty and as he says to his clients, "The power is in your heart... not in your program!"

Savit, Josh – Mr. Savit went in his first mine at the age of five, and though he did not go back to one for over 30 years. He is the son of Mark Savit, the first Special Investigator for the Department of Mines, now The Mine Safety & Health Administration. With that in mind it is only natural that he gleaned some knowledge of mining and developed a passion for it. As the Operations Manager for Predictive Compliance, he works closely with both operations and safety at a variety of mines on improved ways to manage, understand and utilize the data contained in MSHA citation, as well as developing management systems though out the Americas. He has helped to create best practices in the field of citation and data management for several companies. He has consulted on several potential patterns of violations defenses. He regularly speaks at regional safety & health conference, as well as national and state mining association. He is a member of The Society of Mining Engineers, & ISMP. A graduate of the Kansas City Art Institute, he also attended Bennington College, and did graduate studies at the University of Massachusetts Dartmouth.

Scribe, Sam – Mr. Scribe operates Catamount Safety Consulting of PA. He has been conducting MSHA and OSHA training and consulting for over 20 years. A former miner, he travels throughout the United States and Canada training over 7000 miners annually. He uses the common sense approach to training, giving each miner the personal responsibility and ownership of safety in the workplace.

Shabbick, Rodney J. – Mr. Shabbick is a 39 year experienced practitioner of prehospital emergency medicine and has 30 years of experience and service to and for the mining industry. Currently, he is an Emergency Response Training Specialist for the Pennsylvania Bureau of Mine Safety where he specializes in the instruction of the required continuing education of the trained mine emergency medical providers along with training of the PA State Mine Rescue Teams. Mr. Shabbick is a founding member of the Special Medical Response Team, a volunteer medical team willing and trained to assist with underground medical mine rescue. The team has participated in multiple mine emergencies; Wilberg, Utah, Green County, Pennsylvania mine fires, and the 2002 QueCreek mine rescue. He is the liaison between the PA Bureau of Mine Safety and the Special Medical Response Team (S.M.R.T.).

Smallman, Rick – Mr. Smallman is a graduated apprentice and Operating Engineer for 33 years. He specialized in the crane industry, working in the crane rental business in and around the Metro-Detroit area. Mr. Smallman is a member of Michigan Task Force One's First Responder Team as a Heavy Rigging Specialist. Recently, he became a High Angle Rescue and Recovery Trainer and a Crane & Rigging Instructor with the Operating Engineers Local 324 Training Center. Mr. Smallman holds the following certifications: Forklift, MUST, NCCCO Lattice Boom Crawler, Lattice Boom Truck, Telescopic Swing and Fixed Cab and is an accredited NCCCO examiner in the Telescopic Swing and Fixed Cab specialties.

Stalfort, David – Mr. Stalfort is currently a Senior Director at ABS Consulting, a wholly owned subsidiary of the American Bureau of Shipping responsible for leading the development and execution of strategic management services. He is also the program manager for support provided to the Department of Labor's Mine Safety and Health Administration and the Department of Interior's Bureau of Safety and Environmental Enforcement. Mr. Stalfort is a retired Coast Guard Captain (O-6) with 30 years of experience leading people and managing organizational performance. His skills include strategy development, strategic planning, performance measurement, process improvement, risk management, and crisis management. Mr. Stalfort has a BS. in Applied Technology from Florida Institute of Technology and an MBA from Colorado State University. He is also a licensed merchant mariner and holds a Project Management Professional certificate.

Urosek, John – Mr. Urosek has been employed by the Mine Safety and Health Administration, United States Department of Labor since 1974. He has worked in the areas of ventilation, fires, explosions, dust control, roof control, and enforcement activities. Mr. Urosek graduated as a mining engineer from Penn State in 1979 and is a registered Professional Engineer in the State of Pennsylvania. He started working as a mining engineer in the Ventilation Division in 1979 to becoming the Chief of the Ventilation Division in 1995. Mr. Urosek joined MSHA's Mine Emergency Unit as an apparatus wearer in 2002, then promoted to the Chief of Mine Emergency Operations in 2007. He has responded to over 80 mine emergencies. As such, he has served as the senior technical advisor and expert and has extensive experience in an active command center and in working with active rescue and recovery operations during a mine emergency.

Weston, Robert – Mr. Weston is the President of the Minnesota Mine Safety Association and a Safety and Health Professional with the Center for Business and Industry (CBI) division of South Central College in North Mankato, MN. He specializes in designing, developing and delivering safety solutions. He has a Bachelor's degree in Organization Management and Communication, holds an MSHA Instructor Surface (IS) and Instructor Underground (IU) training qualifications, and is credentialed by the board of Certified Safety Professions (CSP) and International Society of Mine Safety Professionals (MSP).

York-Feirn, William C. – Mr. York-Feirn is a Certified Mine Safety Professional (CMSP) and is the Director for the Mine Safety & Training Program with the Colorado Division of Reclamation, Mining & Safety in Denver. His program conducts mine rescue and mine health and safety training/compliance assistance for over 5,000 miners each year. Mr. York-Feirn worked as a geologist for 15 years with Anaconda, Goldfields Mining and Noranda before joining the State of Colorado. He has been the Mine Safety Program Manager for the last 23 years which continues to produce nationally-recognized, innovative mine safety and health interactive DVD presentations. Mr. York-Feirn serves on the Board of Directors of the International Society of Mine Safety Professionals (ISMSP) and is the Secretary for the ISMSP Rocky Mountain Chapter, which he co-founded in 2006. He has won ISMSP's 2006 Guiding Light Award and the 2005 Safety Leadership Award from the Colorado Rock Products Association.

"Safety First"