

# PRIORITY 1



## EMS CONFERENCE

OCTOBER 17-18, 2024

Marriot St. Louis West Hotel

**PROGRAM BROCHURE**



# Table of Contents

|   |    |
|---|----|
| Schedule at a Glance  | 3  |
| Preconference Workshops, Thursday, October 17, 2024               | 3  |
| Main Conference, Friday, October 18, 2024                         | 3  |
| Floor Plan  | 4  |
| Preconference Workshops   | 5  |
| Foundations of EMS Leadership:<br>Navigating the EMS Chief's Role | 5  |
| Handtevy Instructor Course  | 6  |
| ESO Regional User Group   | 6  |
| Main Conference Program   | 7  |
| Speakers  | 12 |
| Remle Crowe, PhD, NREMT   | 12 |
| Darick Day, BS, EMT-P, CCP-C, FP-C                                | 12 |
| Brian Froelke, MD   | 12 |
| W. Scott Gilmore, MD, FACEP, FAEMS                                | 12 |
| Lekshmi Kumar, MD   | 13 |
| Mark Levine, MD, FACEP  | 13 |
| Tom Lewis, MD, FACEP  | 13 |
| Phil Moy, MD  | 13 |
| Brent Myers, MD   | 14 |
| Bryan Nelson, MBA, CPHQ, NRP                                      | 14 |
| Brian Openlander, DO  | 14 |
| Paul Pepe, MD   | 15 |
| Justin Rapoff, DO   | 15 |
| Judson Smith, MHA, NRP  | 15 |
| Rachael Stemerman, PhD, MPH, NRP                                  | 15 |
| David Tan, MD   | 16 |
| John Wilmas, MD   | 16 |
| Scott Youngquist, MD, MS  | 16 |
| Conference Registration Information                               | 17 |
| Continuing Education  | 17 |
| Exhibitors  | 18 |
| Companies Already Signed Up                                       | 18 |
| Hotel Registration and Rates                                      | 18 |
| Sponsors  | 18 |



## Schedule at a Glance

### Preconference Workshops, Thursday, October 17, 2024

|               |   |
|---------------|---|
| 7:30 – 8:00   | Registration  |
| 8:00 – 12:00  | ESO Regional User Group   |
| 8:00 – 12:00  | Handtevy Instructor Course  |
| 8:00 – 12:00  | Foundations of EMS Leadership:<br>Navigating the EMS Chief’s Role |
| 12:00 – 1:00  | Lunch   |
| 13:00 – 17:00 | ESO Regional User Group   |
| 13:00 – 17:00 | Handtevy Instructor Course  |
| 13:00 – 17:00 | Foundations of EMS Leadership:<br>Navigating the EMS Chief’s Role |

### Main Conference, Friday, October 18, 2024

|             |  |
|-------------|--|
| 7:30-8:00   | Registration   |
| 8:00-8:20   | Welcome  |
| 8:20-8:40   | Respond Smarter: Revolutionizing EMS with AI   |
| 8:40-9:00   | Resilience – Build Skills to Endure Hardship   |
| 9:00-9:20   | The NEAR Criteria and EKG Transmission - High Speed or Mother May I?   |
| 9:20-9:40   | Rethinking the Role of Dispatch –<br>Not Just “What to Send” but also Prediction of Outcomes                   |
| 9:40-10:00  | Convulsion Repulsion:<br>How EMS Can Finally Control Benzo-Resistant Status Epilepticus                        |
| 10:00-10:20 | Break  |
| 10:20-10:40 | Dropping H Bombs - The Devastating Effects of H Bombs in Head Injuries   |
| 10:40-11:00 | Other “Solutions” for Controlling Post-Traumatic Bleeding:<br>Clarifying TXA & Calcium Use in Prehospital Care |
| 11:00-11:20 | TXA: Is All Bleeding the Same?   |
| 11:20-11:40 | Blood, Sweat, and Gears: Saving Lives on the Road with Prehospital Transfusions                                |
| 11:40-12:00 | Data Mythbusters: Inequities in Prehospital Analgesia  |
| 12:00-13:00 | Lunch  |
| 13:00-13:20 | Turning of the Tables: An Audience Led Discussion with the Presenters  |
| 13:20-13:40 | The Use of Early Intramuscular Epinephrine<br>for Out-of-Hospital Cardiac Arrest and Survival                  |
| 13:40-14:00 | Just When I Thought I Was Out, They Pull Me Back In  |
| 14:00-14:20 | Roses are Red, So are the Skin, Blood and Urine Too  |
| 14:20-14:40 | Break  |
| 14:40-15:00 | If You’re Fibbin’, You Might Get Paddled   |
| 15:00-15:20 | Tipping the Scale of Stroke Care   |
| 15:20-15:40 | Echoes in EMS: How to Incorporate Ultrasound into Prehospital Emergency Care                                   |
| 15:40-16:00 | Lights and Sirens and Crashes...Oh My!!  |
| 16:00-16:20 | Freedom House EMS: The Heros and Pioneers of America’s Earliest EMS Program                                    |
| 16:20-16:40 | A Current State of Affairs: Listening Session with the Missouri Bureau of EMS                                  |
| 16:40-17:00 | Closing  |



## Floor Plan

Priority 1 EMS Conference will take place in Salons A, B, C, and G of the Grand Ballroom on October 17th and 18th.

Exhibitors will be in Salons D, E, and F of the Grand Ballroom and in the Westwood and Bellerive Rooms. Refreshments will be set up in Salons D, E, and F of the Grand Ballroom. Beverages will be set up in the Westwood and Bellerive Rooms.





# Preconference Workshops

## Thursday, October 17, 2024

### Foundations of EMS Leadership: Navigating the EMS Chief's Role

Grand Ballroom Salon A  
8:00 am – 5:00 pm

This course provides a well-rounded informative day of the roles and responsibilities of the Chief Medical Officer. The course is designed for all interested in the medical officer role as well as those currently in the CMO role. The course brings together subject matter experts to answer questions and give a good basis for many topics that the medical officer is responsible for. From legal issues to lessons learned, this course is an interactive discussion with some of the important contacts one will need for success as a CMO. There will be a roundtable Q&A for all involved to answer questions one may have at the end of the day. Lunch is provided by EMS MC.

- 08:00-08:30- State BEMS rep to talk about requirements for ambulance/licensure
- 08:30-09:00- DEA Diversion Program (Kimberly Daniels, DEA)
- 09:00-09:45- MO Bureau of Narcotics and Dangerous Drugs (Jeff Proser)
- 09:45-10:15- Break
- 10:15-11:45- EMSMC Revenue Cycles/Billing
- 11:45-12:45- Lunch provided by EMS MC
- 12:15-12:45- GEMT (Brandy Douglas)
- 12:45-13:15- Budgeting
- 13:15-13:45- Medical Direction/Protocols (Dr. Rapoff)
- 13:45-14:15- Jason White State Legislation/SAC
- 14:15-14:45- Break
- 15:15-15:45- Realistic expectations for the position and what others wished they knew (CMOs Muschany, Stuhlman, Doll)
- 15:45-16:15- QA/QI and why (Marc Doll, St. Charles City Medical Officer)
- 16:15-17:00- Roundtable



## Handtevy Instructor Course

Grand Ballroom Salon C

8:00 am – 5:00 pm

The Handtevy Pre-Hospital Pediatric Instructor Course is an 8-hour live lecture and hands-on course that is intended to certify instructors to teach the Handtevy Pre-Hospital Pediatric Provider Course at their department and earn credit. The course uses the basic tenets of ACLS training as the foundation, while still covering the basic pediatric ALS principles and nuances. The course focuses on the skills needed to rapidly and accurately treat the sick and injured pediatric patient. This preconference workshop is being presented by Handtevy Pediatric Emergency Standards, Inc.

## ESO Regional User Group

Grand Ballroom Salon G

8:00 am – 5:00 pm

Join ESO in St. Louis for a full day of presentations by ESO leaders and subject matter experts. Spend the day networking with colleagues and ESO staff, schedule a one-on-one meeting with an onsite support leader to receive further assistance on any of your ESO suite questions, and gain valuable industry and product insights.

ESO Regional User Group attendees will:

- Receive company updates regarding new partnerships and end of life transitions (Logis Solutions, Rover – IamResponding, NFIRS to NERIS)
- Hear from our research team on future projects that will improve community health and safety outcomes through the power of data
- Help shape the future of ESO products in our roadmap and feedback sessions
- Meet with our onsite support leader to further facilitate any conversations you may have on ESO products or topics discussed in the presentations.



# Main Conference Program

## Grand Ballroom Salons A, B, C, and G

**8:00 am – 8:20 am**      **Welcome**

Conference logistics will be covered including important topics such as where the restrooms are located, when the breaks will occur, how to obtain continuing education, and more importantly what goodies will be had during the breaks.

**8:20 am – 8:40 am**      **Respond Smarter: Revolutionizing EMS with AI**  
**Rachael Stemerman, PhD, MPH, NRP**

Artificial intelligence (AI) is the next big frontier in the world of technology. It is creeping into all aspects of our life, often without us being aware of it occurring. AI has huge potential in the field of EMS and is becoming an essential tool. AI has the power to help make rapid, data-driven decisions not only during patient care but also at the point of dispatch.

**8:40 am – 9:00 am**      **Resilience – Build Skills to Endure Hardship**  
**Judson Smith, MHA, NRP**

Doing the job affects us in ways that we may not be consciously aware of. Burnout, relationship problems, substance use are all ways that issues with our mental health are seen. Resilience is a tool that allows us to improve our mental health and to prevent compassion fatigue, secondary trauma to ourselves, and decrease stress. But it cannot be done just at the individual level, a culture of resiliency within the agency must be created.

**9:00 am - 9:20 am**      **The NEAR Criteria and EKG Transmission -**  
**High Speed or Mother May I?**  
**Bryan Nelson, MBA, CPHQ, NRP**

Time is muscle. We have all heard the adage. Discover how one hospital system worked with different EMS agencies to decrease their first medical contact to percutaneous cardiac intervention times using the NEAR criteria.

**9:20 am - 9:40 am**      **Rethinking the Role of Dispatch – Not Just “What to Send”**  
**but also Prediction of Outcomes**  
**Brent Myers, MD**

Dispatch is just gathering information and sending an ambulance. Or so we think. The information gathered at the time of call-taking can assist in predicting ultimate patient outcomes. Additionally, certain information obtained during call-taking may even indicate when it is more appropriate to utilize a nurse advice line or telemedicine and avoid dispatching an ambulance.



## Main Conference Program

### Grand Ballroom Salons A, B, C, and G

**9:40 am - 10:00 am**      **Convulsion Repulsion: How EMS Can Finally Control Benzo-Resistant Status Epilepticus**  
**Paul Pepe, MD**

Benzodiazepines have been and continue to remain the first line treatment of seizures in the prehospital environment. The issue confronting EMS clinicians is that there never has been a cost-effective or easily administered medication for those patients. During the presentation, ketamine will be discussed as a medication that can fill that gap and the successes that some agencies have had over the last few years using ketamine for benzodiazepine resistant seizures.

**10:00 am - 10:20 am**      **Break – Grand Ballroom Salons D, E, and F**

**10:20 am - 10:40 am**      **Dropping H Bombs - The Devastating Effects of H Bombs in Head Injuries**  
**Tom Lewis, MD**

Traumatic brain injuries are frequently encountered in the prehospital environment. The care which is provided to patients with traumatic brain injuries has a direct effect on patient outcomes. During this presentation, the relationship between hypertension, hypoxia, and hypocapnia and patient outcomes will be explored.

**10:40 am - 11:00 am**      **Other “Solutions” for Controlling Post-Traumatic Bleeding: Clarifying TXA & Calcium Use in Prehospital Care**  
**Paul Pepe, MD**

Tranexamic acid (TXA) has been used for many years in Europe for bleeding. It is available for purchase over the counter in the United Kingdom. It has over the last decade been found to be useful in trauma and many EMS agencies in the United States have adopted its use in the prehospital environment. During this presentation, the rationale for TXA use and the most appropriate way for its use will be presented. In addition, the role of calcium in the prehospital trauma setting will be discussed and how it can lead to better outcomes for trauma patients.

**11:00 am - 11:20 am**      **TXA: Is All Bleeding the Same?**  
**Phil Moy, MD**

TXA has been touted as a wonder drug for bleeding in trauma. The question is what effect TXA has in other conditions where bleeding is a consideration. During this discussion, the role that TXA may play in these other hemorrhagic conditions will be explored and to determine if TXA should be pulled out of the EMS toolbox while caring for patients with these conditions.





## Main Conference Program

### Grand Ballroom Salons A, B, C, and G

**11:20 am - 11:40 am**      **Blood, Sweat, and Gears: Saving Lives on the Road with Prehospital Transfusions**  
**Lekshmi Kumar, MD**

Prehospital blood transfusions in trauma have received a lot of coverage in the medical literature as well as the lay pressure. During this presentation, the logistical considerations will be discussed as well as challenges that had to be overcome to implement a prehospital blood program.

**11:40 am - Noon**            **Data Mythbusters: Inequities in Prehospital Analgesia**  
**Remle Crowe, PhD, NREMT**

Are racial inequities in pain management real or is there something else explaining these differences in care? Come find out as Dr. Remle Crowe takes to a dataset of more than 30,000 linked EMS and hospital records. Learn how to harness the power of data to understand systemic issues, identify hidden biases, and develop effective strategies to ensure high quality equitable care.

**Noon - 1:00 pm**            **Lunch – On Your Own**

**1:00 pm - 1:20 pm**        **Turning of the Tables: A time for participants to ask the presenters whatever is on their mind.**

**1:20 pm - 1:40 pm**        **The Use of Early Intramuscular Epinephrine for Out-of-Hospital Cardiac Arrest and Survival**  
**Scott Youngquist, MD**

Numerous studies have shown that faster epinephrine administration improves cardiac arrest survival and outcomes. But the question remains as to which route of administration is the most appropriate. Is intravenous administration superior to intraosseous administration or vice versa? What about intramuscular administration which is quicker than both intraosseous and intravenous administration.



## **Main Conference Program**

### **Grand Ballroom Salons A, B, C, and G**

**1:40 pm - 2:00 pm**      **Just When I Thought I Was Out, They Pull Me Back In**  
**Mark Levine, MD**

In 2015, the American Heart Association recommended the use of extracorporeal cardiopulmonary resuscitation (eCPR). This was after a patient in cardiac arrest was resuscitated in the Louvre in Paris. However, eCPR has not been quickly adopted over the last 9 years. This begs the questions, is eCPR superior to conventional CPR and why have hospital systems not implemented eCPR programs? During this presentation, eCPR will be discussed including the science behind eCPR and the systems that must be in place to support implementation of eCPR. Additionally, the literature comparing eCPR with conventional CPR will be reviewed.

**2:00 pm - 2:20 pm**      **Roses are Red, So are the Skin, Blood and Urine Too**  
**Brian Openlander, DO**

Hydroxocobalamin has been used for years in Europe to treat victims of fires with good outcomes. It has slowly been adopted in the United States due to financial reasons. The question is whether it is worth the cost? During this presentation, cyanide poisoning will be reviewed, as well as the mechanism of action, administration, and monitoring considerations for hydroxocobalamin.

**2:20 pm - 2:40 pm**      **Break – Grand Ballroom D, E, and F**

**2:40 pm - 3:00 pm**      **If You're Fibbin', You Might Get Paddled**  
**Justin Rapoff, DO**

The mainstay of treating atrial fibrillation is rate control and rhythm control. In the prehospital setting, treatment of atrial fibrillation has focused on rhythm control using synchronized cardioversion in the unstable patient. Maybe it is time to move the focus from rhythm control to rate control. During this presentation, effective means of rate control will be discussed including the safety of adopting this approach as well as what effect the adoption of a rate control strategy in the prehospital setting has on patient outcomes.

**3:00 pm - 3:20 pm**      **Tipping the Scale of Stroke Care**  
**John Wilmas, MD**

Stroke scales have been used by EMS clinicians for many years in the prehospital setting. No scale has been shown to be perfect but recent studies have shown that scales that have been used in the past may not be as good as what we once thought that they were.



## **Main Conference Program**

### **Grand Ballroom Salons A, B, C, and G**

**3:20 pm - 3:40 pm**      **Echoes in EMS: How to Incorporate Ultrasound into Prehospital Emergency Care**  
**Battalion Chief Darick Day, BS, EMT-P, CCP-C, FP-C**

The adoption of point of care ultrasound (POCUS) in the prehospital environment has increased over the years with the decreasing in pricing for portable ultrasounds. During this presentation, the basics of POCUS and clinical indications for it will be discussed. Additionally, it will be shown how this powerful tool can better differentiate shock states as well as the cause of respiratory distress.

**3:40 pm - 4:00 pm**      **Lights and Sirens and Crashes...Oh My!!!**  
**David Tan, MD**

Lights and sirens save lives, or so we think. However, this has been called to question by many national organizations and has led to many coming out against the indiscriminate use of these. During this presentation, the literature behind the reduction in the use of lights and sirens will be explored. Additionally, appropriate quality assurance metrics in a harm reduction program for emergency vehicle operation will be presented.

**4:00 pm - 4:20 pm**      **Freedom House EMS: The Heros and Pioneers of America's Earliest EMS Program**  
**Brian Froelke, MD**

Freedom House Ambulance Service was the first emergency medical service in the United States to be staffed by paramedics with medical training beyond basic first aid. Founded in 1967 to serve the predominantly black Hill District of Pittsburgh, Pennsylvania, it was staffed entirely by African Americans. Freedom House Ambulance Service broke medical ground by training its personnel to previously unheard-of standards of emergency medical care for patients en route to hospitals. The paramedic training and ambulance design standards pioneered in the Freedom House Ambulance Service would set the standard for emergency care nationally and even internationally.

**4:20 pm - 4:40 pm**      **A Current State of Affairs: Listening Session with the Missouri Bureau of EMS**  
**Chief, Missouri Bureau of EMS**

Come and listen to Chief Meyer as he informs you about what is happening at the Missouri Bureau of EMS. After a brief session outlining the changes that are occurring, Chief Meyer will open the floor for questions from those in attendance.

**4:40 pm - 5:00 pm**      **Closing**



## Speakers

### **Remle Crowe, PhD, NREMT**

Remle Crowe, PhD, NREMT is an expert in EMS research and quality improvement. Prior to earning her PhD in public health from The Ohio State University, her EMS career began as a volunteer EMT and instructor with the Red Cross in Mexico City, where she also worked at Ford Motor Company as a Powertrain Quality engineer certified as a Black Belt in Six Sigma. Now, Dr. Crowe blends her background in research and improvement science to improve community health and safety through the power of data as Director of Research at ESO in Austin, Texas.

### **Darick Day, BS, EMT-P, CCP-C, FP-C**

Darick Day currently serves as a Battalion Chief and EMS Training Officer for the Mehlville Fire Protection District. With 15 years of experience as a paramedic in Missouri, Darick has dedicated his career to serving the greater St. Louis region. He is certified in both ground and flight critical care and has provided critical care education to paramedics and RNs for several years. An accomplished speaker and educator, Darick has extensive experience at all levels of EMS education, and is dedicated to improving prehospital emergency medicine.

### **Brian Froelke, MD**

Brian Froelke, MD is an Assistant Professor of Emergency Medicine at Washington University School of Medicine in St. Louis. He attended the University of Cincinnati Medical School and continued his training at Barnes Jewish Hospital where he served as Chief Resident. He assisted with the construction of an EMS Fellowship Program in which he was the inaugural fellow in Emergency Medical Services. He is the EMS medical director for Christian Hospital EMS in Saint Louis as well as a number of local emergency response agencies. He is President of the Interstate Disaster Medical Collaborative and the EMS Medical Director for East Central Region.

### **W. Scott Gilmore, MD, FACEP, FAEMS**

Scott Gilmore, MD is the Medical Director of St. Louis Fire Department, Affton Fire Protection District and Lemay Fire Protection District. He started his career in EMS over 20 years ago as an EMT-A working in a fire-based system. He continued his training and became an EMT-I, EMT-P and EMS Educator. Prior to becoming the Medical Director of the St. Louis Fire Department, he served as the Assistant Medical Director. In addition to being the Medical Director, he works as an attending physician in the Emergency Department at Mercy Hospital South in St. Louis, Missouri and serves on the Board of the National Registry of Emergency Medical Technicians.



## **Lekshmi Kumar, MD**

Lekshmi Kumar, MD is a board-certified Emergency Medicine physician and has been working clinically within the Emory and Grady system for 14 years. Following residency in Rochester MN, she completed her EMS fellowship in Emory, Atlanta. She has been active in the EMS community and currently serves as the medical director for Grady EMS, a large county hospital-based that serves the City of Atlanta. Grady EMS is a tiered system and a transport service with an annual call volume of approximately 160,000 within the city. She is passionate about pre-hospital education and dedicated to ensuring the highest standards of evidenced based pre-hospital care.

## **Mark Levine, MD, FACEP**

Mark D. Levine, MD is a Professor of Emergency Medicine and Emergency Medicine Course Director at Washington University School of Medicine in St. Louis. He started his career as an Emergency Medical Technician—Basic. He graduated from New York University School of Medicine and completed his Emergency Medicine residency at the MetroHealth Medical Center/Cleveland Clinic program in Cleveland, Ohio, where he served as a Flight Physician for Metro Life Flight. He is board certified in Emergency Medicine and Emergency Medical Services. He was the former Medical Director of the St. Louis Fire Department, and now serves as the Assistant Medical Director. He has lectured locally, nationally, and internationally on Emergency Medicine and Pre-hospital Medicine, has edited a textbook on Emergency Medicine, and is a reviewer for EMS World Magazine.

## **Tom Lewis, MD, FACEP**

Tom Lewis, MD is the Mercy EMS Medical Director. Dr. Tom Lewis is responsible for comprehensive medical oversight of all clinical care provided in the Mercy EMS system throughout Missouri, Arkansas and Oklahoma. The ground EMS system is currently comprised of 29 stations in 14 counties. Dr. Lewis is board certified in both Emergency Medicine and Emergency Medical Services. He graduated from the University of Kansas School of Medicine in 2001, attended specialty training at the Michigan State / SCHI Emergency Residency Program with a special interest in prehospital care. He worked with ground and air ambulance services and developed a comprehensive regional tactical EMS system in Saginaw, Michigan. He continues to work with various governor advisory boards and regional EMS committees. Dr. Lewis has worked at the Mercy Emergency Level I Trauma Center in Springfield, Missouri since 2004 and helped develop an area tactical EMS program while staying involved in EMS education and training. Dr. Lewis is driven by the compassionate delivery of quality prehospital care and is actively involved in education and all aspects of clinical practice.

## **Phil Moy, MD**

Phil Moy, MD is an Emergency Physician at Mercy Health Systems in St Louis MO for over 15 years. He finished his EMS fellowship at the University of North Carolina and has been an EMS physician for over 12 years. In that time, he has been active in educating paramedics through podcasts like the Prehospital Emergency Care Podcast and the AMPED podcast, been an active EMS medical director for helicopter and ground services, involved in local government Time Critical Diagnosis committees, and a board member of the National Association of EMS Physicians.



## **Brent Myers, MD**

Brent Myers, MD began his EMS career during high school as an emergency department technician in his hometown of Wilkesboro, NC. The department charge nurse, Geraldine, had a huge influence on Brent's career, reminding him of the rewards that come from helping others: "If you stick with this for a month, you will want to work in this field the rest of your life." Brent went on to complete an EMT course and volunteered with Orange County Rescue Squad – the 9-1-1 EMS provider in Hillsborough, NC – while completing his undergraduate degree in English at UNC-Chapel Hill. After medical school at Wake Forest and an Emergency Medicine Residency at Carolinas Medical Center, he had the honor to serve as the first EMS Fellow at UNC, under the great mentorship of Jane Brice. For the next 12 years, Brent had the privilege to lead the Wake County EMS system in clinical and administrative roles. He then served as Chief Medical Officer for Evolution Health and Associate Chief Medical Officer for American Medical Response (AMR). He currently serves as the Chief Medical Officer for ESO, working to innovate and integrate dispatch, fire, EMS, and hospital data in order to improve community health and safety. Brent is the past President of the National Association of EMS Physicians (NAEMSP) and the North Carolina College of Emergency Physicians. He has authored more than 30 peer-reviewed publications, serves as co-editor of the NAEMSP textbook, advocated at the national level for EMS issues (including the Protecting Patient Access to Emergency Medications Act), presented globally from Moscow to Dubai to Seoul, and continues to serve as an Associate Medical Director for the Wake County EMS System.

## **Bryan Nelson, MBA, CPHQ, NRP**

Bryan Nelson, MBA, CPHQ, NRP has been involved in EMS since 1989 and a certified paramedic since 1992. He has a diverse background in EMS including 911-ground ambulance, firefighter/paramedic, and several years as a full-time, critical-care flight paramedic before transitioning to roles in EMS administration and oversight of one of the busiest STEMI programs in the nation. Bryan currently serves as the Clinical Quality Specialist for Cardiothoracic Surgery, Vascular Surgery, and Mechanical Circulatory Support for Lehigh Valley Health Network in northeast Pennsylvania. He has extensive experience leveraging data for quality, process, and systems improvement, and collaborating with multidisciplinary teams to enhance local and regional systems of care. He serves on various local, regional, and national EMS advocacy and leadership committees and served on the FEMA/HHS ASPR COVID-19 Healthcare Resiliency Task Force as a member of the Prehospital Workgroup during the pandemic. Bryan continues to work part-time as a paramedic for two municipal 911 EMS agencies.

## **Brian Openlander, DO**

Brian Openlander, DO is board certified in Emergency Medicine through ABEM and currently works as an Emergency Physician and the Medical Director for Mobile Integrated Healthcare-EMS for the Mercy system. He began his career as an EMT, RN, and Paramedic/FF, working in 911, CCT, and ICU settings in Missouri, Colorado, and Alabama. He attended medical school at VCOM in Auburn, AL and residency at University of Missouri where he was a Chief Resident. His passion for all things involving prehospital-care is what drove him to pursue Emergency Medicine and continues to dominate his ongoing professional interests, but interests also include First Responder health, wellness, and fitness.



## **Paul Pepe, MD**

Paul Pepe, MD, Dallas County (Texas) EMS/Public Safety Medical Director, has pioneered many of our major advances in resuscitation medicine and EMS. A critical care clinician-scientist turned “street doctor” in Seattle (1970s), he became the 1st full-time EMS medical director (Houston/1980s-early 90s), forging the EMS subspecialty as we know it today while dramatically increasing survival rates and producing landmark research in cardiac arrest and trauma care. After serving as Pennsylvania’s inaugural Commonwealth Emergency Medical (late ‘90s), he became the Dallas Medical Director (2000) and was appointed Emergency Medicine Professor/Chair at the University of Texas Southwestern Medical School/Parkland Emergency-Trauma Center (2000-2014). Co-founding NAEMSP (1984) and becoming its first President-Elect, he still facilitates rapid boots-on-the-ground global informational exchange through the Metropolitan EMS Medical Directors Global Alliance leading to his 2020 NAEMT “Medical Director of the Year”; award during the COVID crisis. Still a street responder and scientist, he continues to garner prestigious best scientific paper awards annually such as the 2020, 2021, 2022, 2023 and 2024 Star Research Achievement Awards from the Society of Critical Care Medicine and American College of Emergency Physicians (ACEP) in 2022). During a lifetime achievement event (ACEP, 2005), he was already monikered “the most accomplished EMS physician of our generation”.

## **Justin Rapoff, DO**

Justin Rapoff, DO is the Medical Director for St. Louis Elite Medical Systems. Prior to this he was the Regional EMS Medical Director for SSM St. Louis for 9 years where he oversaw forty three municipalities, one hundred fourteen ambulances, and over one thousand eight hundred EMT-P/B’s in the greater St. Louis Region. Prior to working in St. Louis, he completed a residency in Emergency Medicine and a fellowship in Tactical Medicine in Chicago, working with the Cook County Sherriff’s Hostage Barricade Terrorism S.W.A.T. team. He has his own YouTube channel devoted to EMS training shorts among some very innovative training he has brought to the St. Louis region including the EMS intubation Challenge and EMS Warrior Challenge. Growing up in central Illinois, undergraduate studies in Biology at Southern Illinois University-Edwardsville, and Medical School at Kansas City University, along with family and friends, have kept him in the Midwest for most of his life.

## **Judson Smith, MHA, NRP**

Judson Smith, MHA, NRP brings more than 25 years of experience in fire and EMS to his current role, Training Officer with the City of St. Louis Fire Department. He holds a master’s degree in Healthcare Administration, numerous EMS teaching credentials and founded one of the first virtual online EMS training programs in the United States. Judson also holds numerous specialty paramedic and firefighter certifications. He has a background in both flight medicine and fire-based EMS. Judson also serves as an officer in an Air Force Reserves aeromedical evacuation squadron.

## **Rachael Stemerman, PhD, MPH, NRP**

Rachel Stemerman, PhD, MPH is a leading expert in the integration of artificial intelligence (AI) and emergency medical services (EMS). With a Ph.D. in Health Informatics from UNC Chapel Hill, she has focused her career on enhancing pre-hospital care through innovative AI solutions. Currently, Dr. Stemerman is a Senior Product Manager for ESO where she develops data reporting products and AI-driven tools to improve patient outcomes and streamline EMS operations.



## **David Tan, MD**

David K. Tan, MD is Chief Medical Officer at the St. Charles County Ambulance District (SCCAD) and an Adjunct Professor at Washington University School of Medicine in St. Louis. Dr. Tan is SCCAD's first full-time EMS medical director and the founding Chief of the EMS Division in the Department of Emergency Medicine at Washington University.

Nationally, Dr. Tan is past president of the National Association of EMS Physicians and a former Principal Member of the National Fire Protection Association's Technical Committee on EMS. At the state level, he was appointed by Missouri's governor to serve as Vice-chair of the State Advisory Committee on EMS. Regionally, he is Chairman of the Metropolitan St. Louis Emergency Transport Oversight Commission and serves as Medical Team Manager for the St. Louis Metropolitan Urban Search & Rescue (US&R) System. He is certified as a tactical EMT and is medical director of the St. Charles County Police Department and certified as a Structural Collapse Rescue Technician and Medical Specialist with St. Louis Metro US&R TF-1. He is also a graduate, with honors, from the International Academies of Emergency Dispatch.

## **John Wilmas, MD**

John Wilmas, MD attended medical school at St. Louis University, completed his residency in Emergency Medicine at Washington University. He is currently an attending physician at Mercy Hospital St. Louis. Since completing residency, he has been actively involved in EMS, currently serving as Medical Director of multiple St Louis County EMS agencies including West County EMS and Fire Protection District, Kirkwood Fire Department, Olivette Fire Department, Creve Coeur Fire Protection District, Monarch Fire Protection District, Metro West Fire Protection District, Ladue Fire Department, and Frontenac Fire Department. In addition, he serves as the Medical Director for ARCH Air Medical Service and provides guidance as a National Physician Advisor for Air Methods.

## **Scott Youngquist, MD, MS**

Scott Youngquist, MD, MS is Chief Medical Officer for the Salt Lake City Fire Department, Salt Lake City and County 911 dispatch, and the Salt Lake International Airport. Dr. Youngquist is a Professor and the Section Chief of EMS for the Department of Emergency Medicine at the University of Utah, School of Medicine. He is active in translational and clinical research and the author of over 90 peer-reviewed publications. His research is focused on the prehospital treatment of cardiac arrest. He is married with four children.





# Conference Registration Information

Registration is available online at [www.stlemsconference.com](http://www.stlemsconference.com) Email confirmation of registration will be sent once registration is completed.

**Main Conference – October 18, 2024 ..... \$125.00**

**Pre Conference Workshop ..... \$45.00**

Everything You Wanted to Know and More  
about being a CMO for Current and Future CMOs

**ESO Regional User Group ..... \$TBD**

**Handtevy Instructor Course ..... \$299.00**

## Continuing Education

Continuing education hours will be offered for prehospital providers at all levels by SSM Health. CEUs are based on the current Missouri Relicensure categories.

### Main Conference:

7.0 CEUs total broken down as follows:

Cardiovascular – **2.00 hours**

Trauma – **1.50 hours**

Medical – **1.50 hours**

Operations – **2.00 hours**

### Preconference Workshops:

ESO Regional User Group – Operations – **8 hours**

Handtevy Instructor Course – **Awarded by Handtevy**

CMO101–Everything You Wanted to Know and More  
about Being a CMO for Current and Future CMOs – Operations – **8 hours**

Certificates will be emailed after completion of an online evaluation following the conference.



## Exhibitors

### Companies Already Signed Up

Please check the website for the most up to date listing



## Hotel Registration and Rates

If you need a place to stay overnight, reservations for a hotel room can be made directly with the Marriott St. Louis West hotel online or by calling 1 (314) 878-2747.

## Sponsors

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