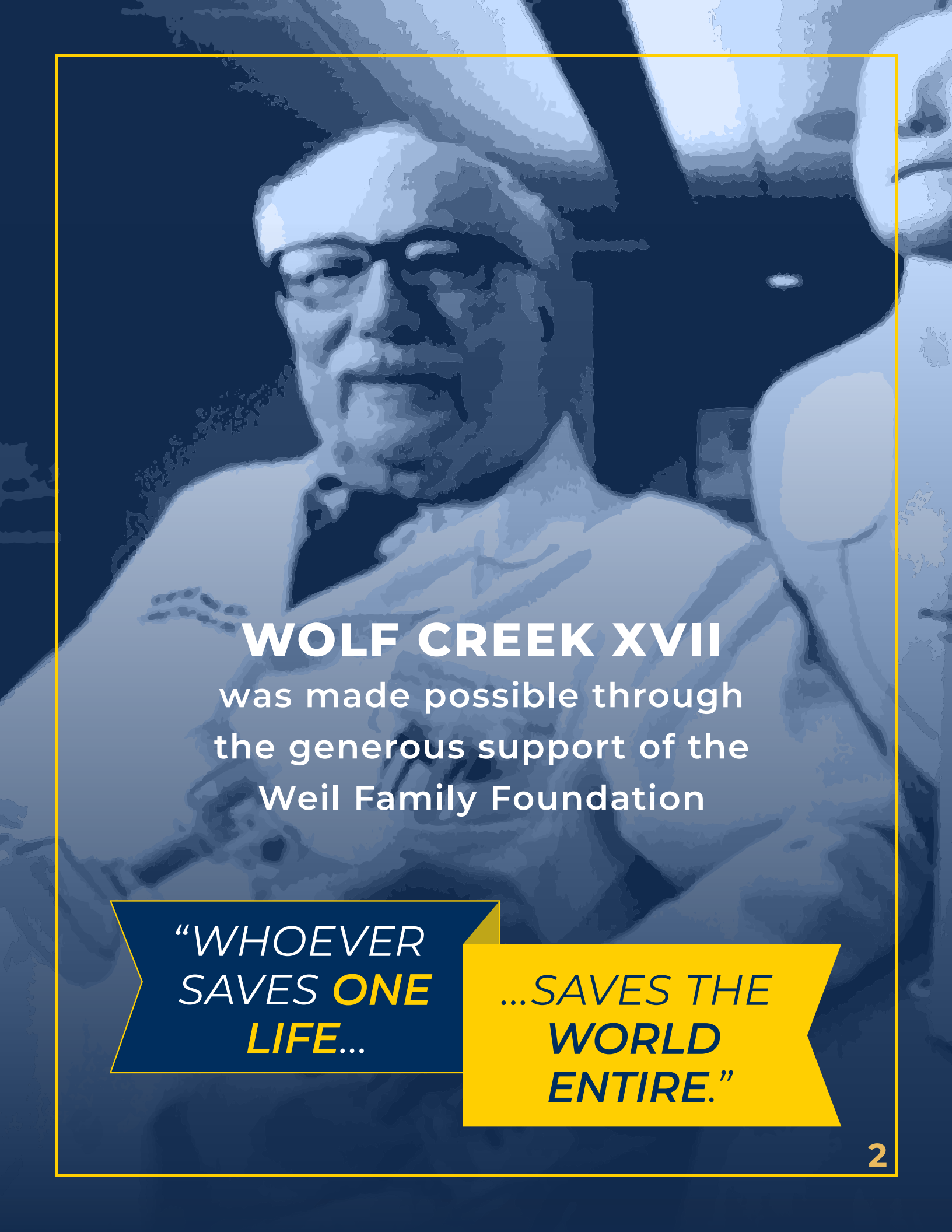
The Max Harry
Weil Institute
FOR CRITICAL CARE RESEARCH & INNOVATION

WOLF CREEK

CONFERENCE PROGRAM

Table of Contents

Click or tap on each heading to go directly to that page



WOLF CREEK XVII

was made possible through the generous support of the Weil Family Foundation

*"WHOEVER SAVES **ONE LIFE**...*

*...SAVES THE **WORLD ENTIRE**."*

Welcome to Wolf Creek XVII!

We thank you all for taking the time to participate in what we hope will be an impactful meeting for both the participants and the field of cardiac arrest resuscitation.

Aligned with the purpose and goals of the first Wolf Creek Conference in 1975, we have gathered to devote ourselves to informal and challenging discussion that will lead to the propagation of ideas among individuals from academia and industry with different backgrounds, interests, and expertise.

Unlike traditional scientific meetings that focus on the dissemination of knowledge, we will spotlight the **gaps** in our knowledge, the **barriers** to translating the knowledge we have, and the **priorities** for our research efforts moving forward with the ultimate goal of improving cardiac arrest outcomes. We will also celebrate the future leaders in the field through our innovator competition. Finally, we hope this meeting will nurture the culture of our community, re-energize our teams, and facilitate new partnerships that will accelerate our progress.

In the concluding statement of the first Wolf Creek Conference, Peter Safar wrote "The ultimate goal of resuscitology is the restoration of lives cut short before fulfillment." It is difficult to think of an endeavor more worthy of our efforts.

Robert W. Neumar, M.D., Ph.D.

Chair, Wolf Creek Conference
Professor and Chair, Emergency Medicine,
University of Michigan and Michigan Medicine

PRE-CONFERENCE — JUNE 14

6:00 PM Welcome reception at Graduate Hotel Regency Ballroom

WOLF CREEK DAY 1 — JUNE 15

Guests staying at the Graduate Hotel walk to the Union (approx. 10-minute walk)

8:00 AM Registration/Breakfast at Rogel Ballroom (2nd Floor of Union)

8:30 AM Weil Institute & Wolf Creek Welcome
Robert Neumar, MD, PhD; Kevin Ward, MD; Carol Weil

9:00 AM Words from a Survivor - Jerry Parris

9:20 AM Panel Introduction and Voting Demonstration

9:35 AM **PANEL: AUTOMATED CARDIAC ARREST DIAGNOSIS**
Theresa Mariero Olasveengen, MD, PhD; Michael H. Sayre, MD; Jacob Sunshine, MD, MS; Wisse van den Beuken, MD

11:05 AM Break

11:20 PM **PANEL: AMPLIFYING LAY-RESCUER RESPONSE**
Katie Dainty, PhD; Ruud Koster, MD, PhD; Yih Yng Ng, MD, MBBS, MPH, MBA; Marcus Ong, MBBS, FRCSEd (A&E), FAMS, MPH

12:50 PM "Science Flash" Presentations

1:00 PM Lunch

1:30 PM **INNOVATOR AWARD PRESENTATIONS**
Carolina Barbosa Maciel, MD, MSCR; Adam Gottula, MD; Rajat Kalra, MBChB, MS; Ryan Morgan, MD, MTR; Mitsuaki Nishikimi, MD; Jacob Sunshine, MD, MS

3:00 PM **INNOVATOR AWARD RANKING**

3:30 PM Academic and Industry Networking Session + Free Time

5:00 PM Buses to stadium pick up guests outside Graduate Hotel

5:30 PM Tour of Michigan Stadium & Group Photo

6:30 PM "Sudden Cardiac Arrest in Athletic Medicine - NFL Emergency Preparedness"
Jim Ellis, MD

7:00 PM Dinner Served

8:30 PM Buses depart Stadium to return to Graduate Hotel

WOLF CREEK DAY 2 — JUNE 16

8:00 AM Breakfast at Michigan Union Rogel Ballroom

8:30 AM Recap of Day 1 and Announcements

9:00 AM **PANEL: MOBILE AEDs**
Christine Brent, MD, FAEMS, FACEP; Steven C. Brooks, MD, MHSc, FRCPC; Maaret Castrén, MD, PhD; Sheldon Cheskes, MD

10:30 AM Break Time

10:45 AM **PANEL: PHYSIOLOGY GUIDED CPR**
Janet Bray, RN, PhD; Sam Parnia, MD, PhD; Thomas Rea, MD, MPH; Robert Sutton, MD, MSCE, FAAP, FCCM, FAHA; Lars Wik, MD, PhD

12:15 PM "Case Study: Lessons Learned from Damar Hamlin"
Jim Ellis, MD; Denny Kellington, ATC, MA; Daryl Conway, MA, AT, ATC

12:45 PM American Heart Association Presentation

1:00 PM Lunch

1:30 PM **PANEL: MECHANICAL CIRCULATORY SUPPORT**
Jason Bartos, MD, PhD; Jan Bělohlávek, MD, PhD; Cindy Hsu, MD, PhD, MS, FCCM; Georg Trummer, MD; Demetri Yannopoulos, MD

2:45 PM Break Time

3:00 PM **PANEL: INDUSTRY RESEARCH PRESENTATIONS**

4:30 PM Free Time: Guests are encouraged to explore Ann Arbor

6:30 PM Wolf Creek Tent Opens at Ann Arbor Music Festival

WOLF CREEK DAY 3 — JUNE 17

8:00 AM Breakfast at Michigan Union Rogel Ballroom

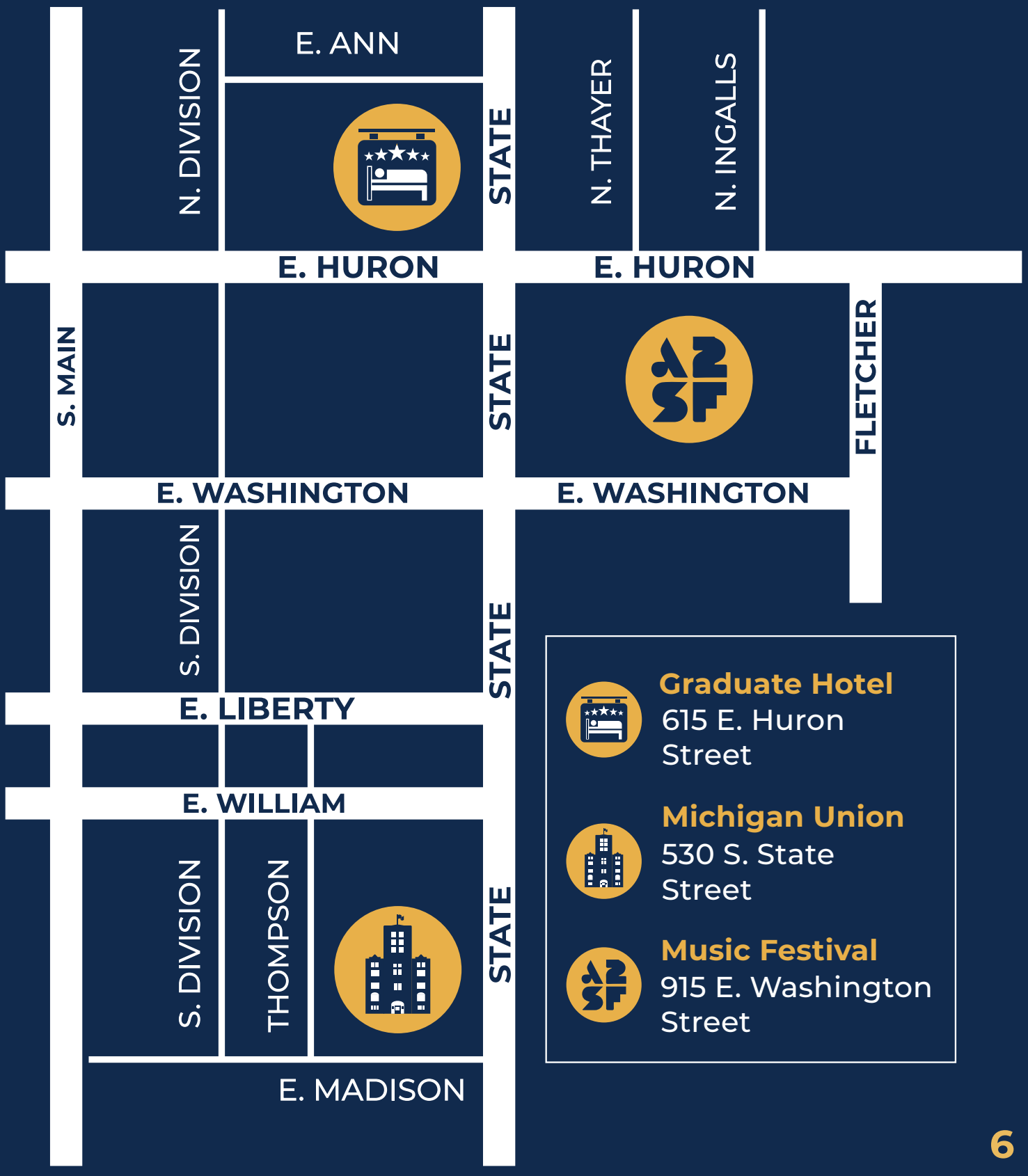
8:30 AM Recap of Day 2 and Announcements

9:00 AM **PANEL: NEUROPROTECTION**
Karen G. Hirsch, MD; Todd Kilbaugh, MD; Giuseppe Ristagno, MD, PhD; Mypinder Sekhon, MD, PhD; Tomoyoshi Tamura, MD, PhD

10:30 AM Summing it Up: Gaps, Barriers and Priorities

12:00 PM Conference Close

WOLF CREEK CONFERENCE KEY LOCATIONS



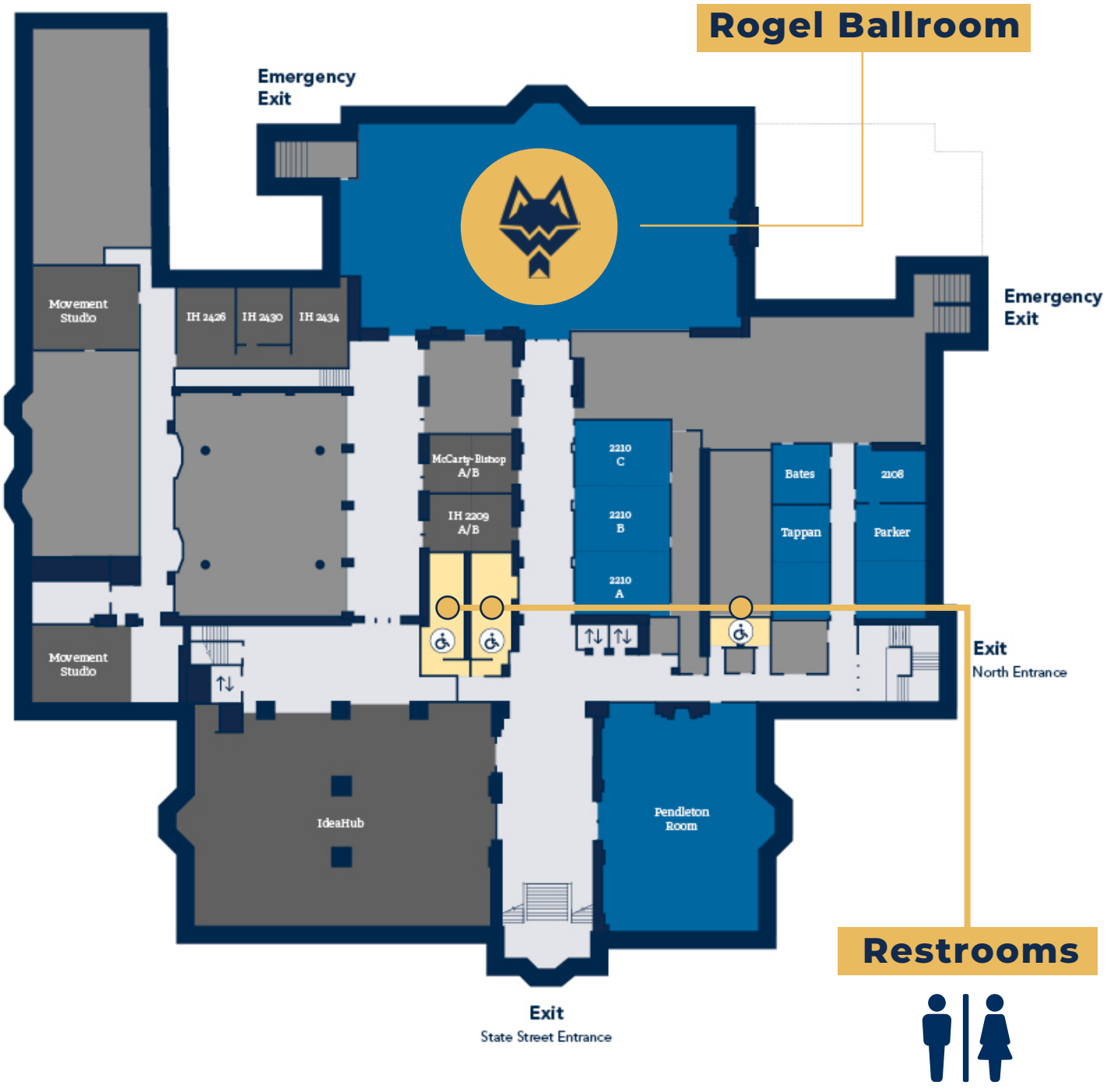
Michigan Union Building

FLOOR 1

Welker and Michigan rooms are available for attendees in need of a space for meetings and phone calls.

Michigan Union Building

FLOOR 2



Thank You to Our Sponsors!

PLATINUM

ZOLL®

stryker

GOLD

American Heart Association.

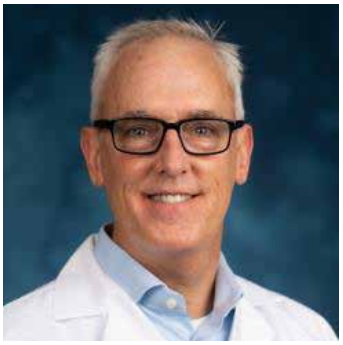
CARL. A HEARTBEAT AHEAD

PHILIPS

SILVER

SCHILLER MEDICAL

Officials & Guest Speakers



Robert W. Neumar, MD, PhD

Chair, Wolf Creek Program; Professor and Chair, Emergency Medicine, University of Michigan

Dr. Neumar has over 20 years of research experience in the field of cardiac arrest resuscitation and traumatic brain injury. A major focus of Dr. Neumar's laboratory has been to elucidate the role of calpains in post-ischemic neuronal death and has also focused on optimizing post-cardiac arrest hypothermic targeted temperature management (HTTM). The major focus of his clinical research is optimizing the management of post-cardiac arrest syndrome.

Kevin Ward, MD

Executive Director, Max Harry Weil Institute for Critical Care Research and Innovation; Professor, Emergency Medicine and Biomedical Engineering, University of Michigan

Dr. Ward's research interests span the field of critical illness and injury ranging from combat casualty care to the intensive care unit. His approach is to develop and leverage broad platform technologies capable of use throughout all echelons of care of the critically ill and injured as well as in all age groups. Dr. Ward's passion is in creating programs which encourage true integration across the disciplines of medicine, engineering, data sciences, and entrepreneurship that accelerate discovery to true patient impact.

Jerry Parris

Cardiac Arrest Survivor

April 10th, 2023, marked one year since Jerry survived an out-of-hospital cardiac arrest (OHCA). A healthy, athletic 50-year-old was teaching a local youth group how to play ultimate frisbee when he suddenly collapsed, and it was a 12-year-old girl who recognized Jerry needed help and ran to get an adult. Jerry is alive today thanks to early recognition and immediate CPR by a pair of bystanders who knew CPR.

Jim Ellis, MD

Chief Medical Officer, USFL Player Health and Safety

Dr. Ellis has supported numerous sports programs throughout his distinguished career. In the early 1990s, he was the medical director for the Atlanta Motor Speedway and the LPGA Chick-fil-A tournament. He was also a senior consultant with Medical Sports Group that coordinated team medical care for the NFL at the Super Bowl for more than 25 years and worked 13 seasons as the emergency physician/associate team physician for the Atlanta Falcons.

Denny Kellington, ATC, MA

Assistant Athletic Trainer, Buffalo Bills

Denny Kellington has been an assistant athletic trainer with the Buffalo Bills since 2017. He spent the previous 11 years working for Syracuse University as an assistant athletic trainer as well as with the Denver Broncos.

Darryl Conway, MA, AT, ATC

Senior Associate Athletic Director; Chief Health & Welfare Officer; University of Michigan Athletics

In his role at the University of Michigan, Darryl Conway oversees Athletic Medicine, Performance Science, Performance Nutrition, Olympic Strength and Conditioning, and Equipment Operations personnel, as well as serving as a liaison to the Athletic Counseling Team & Team Physicians from Michigan Medicine and the University of Michigan University Health Services. His professional interests lie in the fields of Emergency Planning, Catastrophic and Crisis Response; Athletics Risk Management; Advanced Wound Care; Opioid Overdose Management; Exertional Heat Injury Management, and On-Field Management of Cervical Spine Injuries.

Wolf Creek Panelists

AUTOMATED CARDIAC ARREST DIAGNOSIS

Theresa Mariero Olasveengen, MD, PhD

Adjunct Professor, Anesthesia and Intensive Care Medicine, Oslo University Hospital

Dr. Olasveengen is a cardiac arrest researcher with special interest in post-arrest brain injury. She is a member of the Science Advisory Committee for the International Liaison Committee on Resuscitation (ILCOR), the Advanced Life Support Science and Education Committee for the European Resuscitation Council (ERC) and board member of the Norwegian Cardiac Arrest Registry.

Michael H. Sayre, MD

Professor, Emergency Medicine, University of Washington; Medical Director, Seattle Fire Department

Dr. Sayre oversees a broad research portfolio focused on minority health and health disparities, including research on the potential of precision medicine to address care gaps for underserved populations. He also serves on advisory and leadership committees in partnership with NIH. Prior to joining NIMHD, Dr. Sayre was the deputy director of the Division of Research Infrastructure in NIH's National Center for Research Resources, which later became the National Center for Advancing Translational Sciences (NCATS). Earlier in his career, he conducted independent research on fundamental mechanisms of gene regulation as a faculty member at Johns Hopkins University in Baltimore, Maryland.

Jacob Sunshine, MD, MS

Associate Professor, Anesthesiology & Pain Medicine, University of Washington

Dr. Sunshine is an Associate Professor at the University of Washington School of Medicine, in the Department of Anesthesiology and Pain Medicine and is adjunct faculty in the Paul G. Allen School of Computer Science and Engineering. His lab focuses on translational applications of remote sensing using commodity devices such as smartphones and speakers, with a focus on passive detection of signs of cardiopulmonary arrest.

Wisse van den Beuken, MD

PhD Candidate, Anesthesiology, Amsterdam UMC, VUmc

Wisse van den Beuken works as a PhD student at the Department of Anesthesiology of the Amsterdam UMC, location VUmc. His research focuses on automated cardiac arrest detection.

AMPLIFYING LAY-RESCUER RESPONSE

Katie Dainty, PhD

Research Chair, Patient-Centered Outcomes, North York General Hospital, University of Toronto

Dr. Dainty is a researcher focused on issues related to patient and family experience, implementation science, patient-centered outcome measures and quality improvement in community health care environments. Her research focuses on using robust qualitative methods to unpack long-held assumptions about bystander experience and survivorship following sudden cardiac arrest.

Ruud Koster, MD, PhD

Professor, Cardiology; Professor, ACS - Heart Failure & Arrhythmias; Amsterdam UMC

Dr. Koster initiated the AmsteRdam REsuscitation STudies (ARREST) in 1992, a registry of out-of-hospital cardiac arrest in part of the Netherlands, which is still ongoing. His research involves all aspects of basic life support and defibrillation, more recently focused on implementation of AEDs in the home environment.

Yih Yng Ng, MD, MBBS, MPH, MBA

Deputy Clinical Director, Ng Teng Fong Center for Health Innovation; Director, Digital and Smart Health Office, Tan Tock Seng Hospital

Dr. Ng is a public health physician overseeing healthcare policy for Singapore's Ministry of Home Affairs and the Director of the Digital and Smart Health Office at The Center for Health Innovation. His interests are in EMS systems, resuscitation, digital health and population health.

Marcus Ong, MBBS, FRCSEd (A&E), FAMS, MPH

Senior Consultant; Director of Research; Clinican Scientist, Emergency Medicine, Singapore General Hospital

Prof. Ong is Senior Consultant, Director of Research, and Clinician Scientist in the Department of Emergency Medicine at Singapore General Hospital. His research studies focus on pre-hospital emergency care, medical devices, data science and health services.

MOBILE AEDs

Christine Brent, MD, FAEMS, FACEP

Clinical Assistant Professor, Emergency Medicine; Assistant Medical Director, Survival Flight, University of Michigan

Dr. Brent is a Clinical Assistant Professor of Emergency Medicine at the University of Michigan. She holds several positions within the department, including Chief of the Division of Emergency Medical Services, Assistant Medical Director of Survival Flight, and Program Director of the EMS Fellowship.

Dr. Brent has a specific research interest in the utilization of drones in prehospital medicine and has garnered industry funding for this work.

Steven C. Brooks, MD, MHSc, FRCPC

Associate Professor, Emergency Medicine, Queen's University; Chief Medical Officer, Rapid Response Revival

Dr. Brooks's work focuses on novel strategies and technology to improve the community response to out-of-hospital cardiac arrest (OHCA).

His current projects involve a novel mobile device application to crowdsource basic life support for those who experience OHCA, a pilot program involving CPR-trained and AED-equipped lay volunteers for the paramedic service in communities at risk for longer paramedic response times, and an observational study using a large administrative dataset to characterize mental illness and related health services use among survivors of OHCA.

Maaret Castrén, MD, PhD

Professor, Emergency Medicine and Services, Helsinki University Hospital

Dr. Castrén leads prehospital and emergency care for the region of Uusimaa in Finland and has over 800,000 patient contacts each year.

She became the first Professor of Emergency Medicine in Sweden at Karolinska Institutet 2007, and at Helsinki University 2016. She is the Past Chair of the European Resuscitation Council and the Honorary Secretary of ILCOR.

Sheldon Cheskes, MD

Professor, Emergency Medicine, Family and Community Medicine, University of Toronto

Dr. Cheskes is a Professor with the Division of Emergency Medicine, Department of Family and Community Medicine at the University of Toronto, a scientist at the Li Ka Shing Knowledge Institute at St. Michael's Hospital and an affiliate scientist at Sunnybrook Research Institute. He is one of the principal investigators for the Canadian Resuscitation Outcomes Consortium and is a recognized international authority in the area of CPR quality and out-of-hospital cardiac arrest resuscitation.

PHYSIOLOGY-GUIDED CPR

Janet Bray, RN, PhD

Associate Professor, Pre-hospital, Emergency and Trauma Unit, School of Public Health and Preventative Medicine, Monash University

Prof. Bray's background in cardiac and intensive care nursing has driven her research career to improve outcomes for critically ill cardiovascular patients—particularly those experiencing cardiac arrest, heart attack and stroke.

Dr. Bray's research program aims to improve the public's recognition and response to acute cardiovascular symptoms and improve the evidence-base for acute cardiovascular care. Her published research includes multicenter randomised control trials (AVOID, RINSE).

Sam Parnia, MD, PhD

Associate Professor, Medicine, NYU Langone Medical Center

Dr. Parnia is Associate Professor of Medicine at the NYU Langone Medical Center, where he is also director of research into cardiopulmonary resuscitation.

In the United Kingdom, Dr. Parnia is Director of the Human Consciousness Project at the University of Southampton. He is known for his work on near-death experiences and cardiopulmonary resuscitation.

Thomas Rea, MD, MPH

Professor and Section Head, General Internal Medicine, University of Washington

Dr. Rea is an internist in Seattle, Washington and is affiliated with multiple hospitals in the area, including UW Medicine-University of Washington Medical Center and UW Medicine-Harborview Medical Center. Dr. Rea received his medical degree from University of Michigan Medical School and has been in practice for more than 20 years.

Robert Sutton, MD, MSCE, FAAP, FCCM, FAHA

Professor, Anesthesia, Critical Care Medicine, Pediatrics, University of Pennsylvania, Children's Hospital of Philadelphia (CHOP)

Dr. Sutton is an internationally recognized expert in pediatric cardiac arrest resuscitation. His career is focused on developing and evaluating novel techniques and devices to improve the care delivered during in-hospital resuscitation attempts. He is the immediate past Chair of the AHA's National Get With the Guidelines–Resuscitation Registry Pediatric Research Task Force and has been a main author of either the Pediatric Advanced or Basic Life Support Guidelines since 2015.

Lars Wik, MD, PhD

Senior Consultant, Anesthesiology, Oslo University Hospital

Dr. Wik is a Senior Consultant of Anaesthesiology at Oslo University Hospital and the Norwegian National Advisory Unit on pre-hospital Emergency Medicine (NAKOS), where he also holds a position as a Senior Researcher. Since 1985, Dr. Wik has been active in conducting clinical and experimental research into mechanical CPR and holds several patents related to Emergency Medicine technology. His main interests are CPR, trauma, and new technologies for surveillance of vital symptoms and measurements.

MECHANICAL CIRCULATORY SUPPORT

Jason Bartos, MD, PhD

Associate Professor, Cardiology, University of Minnesota

Dr. Bartos is Associate Professor of Cardiology at the University of Minnesota where he works as a critical care physician and interventional cardiologist. He is also the Section Head of the Critical Care Cardiology section of the Cardiology Division, Medical Director of the Cardiovascular Intensive Care Unit, and the Associate Director of the Center for Resuscitation Medicine where he has worked to develop the University of Minnesota extracorporeal cardiopulmonary resuscitation program and the mobile ECMO program covering the Twin City metro area.

Jan Bělohlávek, MD, PhD

Head, Cardiovascular Surgical Intensive Care Unit, Department of Cardiovascular Surgery, University of Freiburg

Dr. Bělohlávek is active in clinical research with a main focus on refractory cardiac arrest, ECPR (extracorporeal cardiopulmonary resuscitation) ECMO reperfusion, microcirculation, different ECMO settings.

He is the main investigator of the Prague OHCA study comparing ECPR/invasive based approach to standard therapy in refractory cardiac arrest published in JAMA 2022. Dr. Bělohlávek also participated in the ECMO-CS cardiogenic shock study published in Circulation 2023, evaluating the role of ECMO in severe cardiogenic shock.

Cindy Hsu, MD, PhD, MS, FCCM

Division Chief, Critical Care; Assistant Professor, Emergency Medicine and Acute Care Surgery, University of Michigan

Dr. Hsu is an emergency medicine physician and surgical intensivist who cares for patients in Michigan Medicine's Adult Emergency Department, Emergency Critical Care Center, and Trauma/Burn Intensive Care Unit.

Dr. Hsu strives to transform cardiac arrest care by dismantling the gaps between translational research and clinical implementation, with an emphasis on improving the neurologic outcome of cardiac arrest patients. Her research has spanned from large animal models to clinical trials of out-of-hospital cardiac arrest and other acute conditions, to mixed methods research on emergency trial conducts.

Georg Trummer, MD

Head, Cardiovascular Surgical Intensive Care Unit, Department of Cardiovascular Surgery, University of Freiburg

Dr. Trummer is a Cardiac Surgeon specialized in intensive care medicine, extracorporeal circulation and resuscitation. The daily routine in organ protection and extracorporeal circulation led to the research on controlled whole body reperfusion—"CARL"—after cardiac arrest using extra coporeal circulation. This research started in 2003 at UCLA and is ongoing in Freiburg/Germany with paralleled engineering of suitable medical devices in a spin-off of the University of Freiburg.

Demetri Yannopoulos, MD

Professor, Medicine; Research Director, Interventional Cardiology, Director, Resuscitation Medicine University of Minnesota

Dr. Yannopoulos has dedicated his scientific and academic career in the field of resuscitation. He has had continuous funding from the NIH to evaluate methods to improve neurological outcomes after prolong untreated arrest for the last 10 years, and is the Principal Investigator of the NIH Funded ARREST Trial. Dr. Yannopoulos has been actively redefining the future of time-sensitive interventions in the emergency medical field, and designed the first-of-its-kind medical mobile ECMO truck used to deliver immediate medical care to cardiac arrest patients.

NEUROPROTECTION

Karen G. Hirsch, MD

Associate Professor, Neurology and Neurosurgery, Stanford University and Stanford Health Care

Dr. Hirsch's research focuses on using continuous and discrete multi-modal data to develop phenotypes and identify signatures of treatment responsiveness in patients with coma after cardiac arrest. She is the Co-PI of PRECICECAP (PRecision Care In Cardiac ArrEst - ICECAP, NINDS R01 NS119825-01) and works closely with collaborators in data science at Stanford and with industry partners to apply machine learning analyses to the complex multi-modal ICU data. Dr. Hirsch also studies neuro-imaging in post-cardiac arrest coma and traumatic brain injury.

Todd Kilbaugh, MD

Assistant Professor of Anesthesia, Critical Care and Pediatrics, Perelman School of Medicine; Medical Director, ECMO Center, Children's Hospital of Philadelphia (CHOP)

Dr. Kilbaugh is an anesthesiologist with the Department of Anesthesiology and Critical Care Medicine and medical director of the ECMO Center at Children's Hospital of Philadelphia.

Dr. Kilbaugh's areas of expertise are Pediatric Surgical and Neurosurgical Critical Care, Perioperative Surgical Site Prophylaxis, Traumatic brain injury and neuroprotection.

Giuseppe Ristagno, MD, PhD

Associate Professor, Department of Pathophysiology and Transplantation, University of Milan

Dr. Ristagno is an anesthesiologist focused on preclinical and clinical studies on cardiac arrest with main focus on defibrillation and neuroprotection.

Mypinder Sekhon, MD, PhD

Clinical Associate Professor, Critical Care Medicine, Vancouver General Hospital, University of British Columbia

Dr. Sekhon is an intensivist and clinician scientist at Vancouver General Hospital / University of British Columbia.

His interests include translational ischemia-reperfusion research in humans with post-cardiac arrest brain injury. Specifically, his research team integrates direct neuromonitoring with biomarker based analytics to ascertain insights into the disease pathophysiology in humans.

Tomoyoshi Tamura, MD, PhD

Departments of Cardiology, Emergency and Critical Care Medicine, Keio University

Dr. Tamura works on translational studies in the fields of shock and cardiac arrest with a main focus on the clinical translation of hydrogen inhalation to mitigate post-cardiac arrest brain injury.

Innovator Award Presenters

Recognizing six investigators who are challenging current paradigms in resuscitation science.

Who will take home the 2023 Innovator Award?

Carolina Barbosa Maciel, MD, MSCR

University of Florida

Adam Gottula, MD

University of Michigan

Rajat Kalra, MBChB, MS

University of Minnesota

Ryan Morgan, MD, MTR

Children's Hospital of Philadelphia

Mitsuaki Nishikimi, MD

Hiroshima University

Jacob Sunshine, MD, MS

University of Washington

Wolf Creek XVII Participants

Michael Adesman
Weil Family Foundation

Tomoaki Aoki
Feinstein Institutes for Medical Research

Fredrik Arnwald
Stryker

Dianne Atkins
University of Iowa

Iyad Ayoub
Rosalind Franklin University

Carolina Barbosa Maciel
University of Florida

Jason Bartos
University of Minnesota

Linda Beasley
University of Michigan

Lance Becker
Zucker School of Medicine at Hofstra/Northwell

Jan Bělohlávek
General University Hospital, Prague

Christoph Benk
Resuscitec GmbH

Robert Berg
Children's Hospital of Philadelphia

Janet Bray
Monash University

Christine Brent
University of Michigan

Steven Brooks
Queen's University

D'Arcy Carll
American Heart Association

Maaret Castrén
Helsinki and Uusimaa Healthcare District

Fred Chapman
Stryker

Sheldon Cheskes
University of Toronto

Mark Clark
University of Michigan

Darryl Conway
University of Michigan

Lisa Coon
University of Michigan

Jason Coult
University of Washington

Katie Dainty
North York General Hospital

Robert Dickson
University of Michigan

Jean-Philippe Didon
SCHILLER Medical

Ian Drennan
Sunnybrook Health Science Center

Ryann Eff
Michigan Medicine

Jim Ellis
National Football League (NFL)

Jonathan Elmer
University of Pittsburgh

Jennifer Fowler
University of Michigan

Michael Fries
St. Vincenz Hospital

Christopher Gaisendrees
University Hospital of Cologne

Raul Gazmuri
Rosalind Franklin University of Medicine & Science

Romergryko Geocadin
Johns Hopkins University

Paolo Giacometti
ZOLL Medical Corporation

Adam Gottula
University of Michigan

Jeff Gould
ZOLL Medical Corporation

Sean Graham
Stryker

Asger Granfeldt
Arhaus University Hospital

Dakota Gustafson
Queen's University

Henry Halperin
Johns Hopkins University

Adam Harvey
Stryker

Karen Hirsch
Stanford University

Michael Holzer
Medical University of Vienna

Amber Hoover
American Heart Association

Cindy Hsu
University of Michigan

Ahamed Idris
UT Southwestern

Dawn Jorgenson
Philips

Rajat Kalra
University of Minnesota

Denny Kellington
Buffalo Bills

Karl Kern
University of Arizona

Todd Kilbaugh
Children's Hospital of Philadelphia

Ruud Koster
Amsterdam UMC

Thomas Kraft
CARL. Resuscitec

Peter Kudenchuk
University of Washington

Joshua Lampe
ZOLL Medical Corporation

Deborah Leahy
ZOLL Medical Corporation

Benjamin Leung
University of Toronto

Chenguang Liu
Philips

James Manning
University of North Carolina at Chapel Hill

David Medine
Weil Family Foundation

William Meurer
University of Michigan

Amanda Missel
University of Michigan

Johanna Moore
Hennepin Healthcare

Ryan Morgan
Children's Hospital of Philadelphia

Laurie Morrison
University of Toronto

Naghmeh Mostofi
ZOLL Medical Corporation

Kate Murphy
University of Michigan

Takahiro Nakashima
University of Michigan

Robert Neumar
University of Michigan

Yih Yng Ng
Ng Teng Fong Center for Healthcare Innovation

Mitsuaki Nishikimi
Hiroshima University

Brian O'Neil
Wayne State University

Theresa Mariero Olasveengen
Oslo University Hospital

Kenn Oldham
University of Michigan

Marcus Ong
Duke NUS Medical School

Norman Paradis
Dartmouth College

Sam Parnia
NYU Langone

James Paxton
Wayne State University

Maeve Pek
Duke NUS Medical School

Gavin Perkins
University of Warwick

Steffen Pooth
University Medical Center Freiburg

Thomas Rea
University of Washington

Giuseppe Ristagno
University of Milan

Amina Salahaddin
CARL.Resuscitec

Thomas Sanderson
University of Michigan

Claudio Sandroni
Università Cattolica del Sacro Cuore

Carly Schmidt
University of Michigan

Florian Schmitzberger
University of Michigan

Myp Sekhon
University of British Columbia

Teri Shields
University of Michigan

Christopher Shoemaker
University of Michigan

Robert Silbergleit
University of Michigan

Kathleen Stringer
University of Michigan

Kjetil Sunde
Oslo University Hospital

Jake Sunshine
University of Washington

Robert Sutton
University of Pennsylvania

Masaru Suzuki
Tokyo Dental College

Robert Swor
Beaumont Health

Tomoyoshi Tamura
Keio University

Wanchun Tang
Weil Institute (Retired)

Tyson Taylor
Stryker

Hakam Tiba
University of Michigan

Renaud Tissier
Ecole nationale vétérinaire d'Alfort

Georg Trummer
University Hospital Freiburg

Wisse van den Beuken
Amsterdam UMC

Terry Vanden Hoek
UI Health

Megan VanStratt
University of Michigan

Melissa Vogelsong
Stanford University

Kevin Ward
University of Michigan

Wolfgang Weihs
Medical University of Vienna

Carol Weil
Weil Family Foundation

Susan Weil
Weil Family Foundation

Myron (Mike) Weisfeldt
Johns Hopkins

Wolfgang A. Wetsch
University Hospital of Cologne

Joe Wider
University of Michigan

Denise Wieck
University of Michigan

Lars Wik
Oslo University Hospital

Susan Wozniak
University of Michigan

Demetris Yannopoulos
University of Minnesota

Scott Youngquist
University of Utah

The Max Harry

Weil Institute

FOR CRITICAL CARE RESEARCH & INNOVATION

www.weilinstitute.med.umich.edu