



American Red Cross
Scientific Advisory Council

knowledge instruct skill
strive lead nurture progressive verify care inform learn proficient value
educate proven evaluate
expertise multidisciplinary training biology
strength training evidence-based best science proactive
real-world practical premier clinical medicine



Being Ready

A serious emergency comes upon you suddenly. When it happens, you must take decisive, effective action immediately, to minimize harm... or to save a life.

It is essential to anticipate the emergency and prepare for it in advance. Materials and equipment must be in place and ready to use.

You and your people must *already* know what to do.

Expert Guidance

What do you need to be ready for that moment? You need clear guidance that is scientifically and medically reliable. Guidance that is easy to remember and follow, *especially* in an emergency.

The American Red Cross Scientific Advisory Council provides that guidance.

The Scientific Advisory Council

The American Red Cross Scientific Advisory Council is a panel of nationally recognized experts drawn from a wide variety of scientific, medical, and academic disciplines. The Council guides the Red Cross on emergency treatments and practices that align with the latest evidence-based scientific and medical knowledge.

In recommending new emergency practices, the Scientific Advisory Council also draws on the vast field experience of the Red Cross. This unique source of practical knowledge helps the Council determine the best ways to apply the latest scientific and medical findings in actual emergency situations: in your home, in your office, on your factory floor. Where real emergencies happen.

The Scientific Advisory Council

Depth and Breadth of Scientific Expertise

The Fast Pace of Scientific Advance

The American Red Cross has always sought the best expert advice to guide its practices. With the accelerating growth of scientific and medical knowledge in recent years, the need became clear for a standing committee to study advances in the field. To address this need, the American Red Cross created the Scientific Advisory Council.

A Broad Foundation of Expertise

The members of the Scientific Advisory Council are experts from a variety of different disciplines, organized into the following six subcouncils:

- Aquatics
- CPR
- Disaster Health
- First Aid
- Nursing and Care-Giving
- Preparedness

The Council's diversity of professional specialties gives it an important advantage: a broad, *multidisciplinary* foundation of expertise for evaluating new emergency response methods and techniques.

How the Council Works

Council members continuously monitor their fields of expertise for important developments in emergency science. Council action can also begin elsewhere, with a new technology or product entering the field, or with an inquiry from a local Red Cross chapter about how best to handle a particular kind of emergency.

The Scientific Review

Once a subject merits further investigation, two or more members of the appropriate subcouncil are assigned to thoroughly research relevant reference materials, formal clinical trials, published texts, expert opinion, and other available *evidence-based* sources. The subcouncil discusses this scientific information and, if warranted, forwards the research and its opinion to the full Scientific Advisory Council.

The full Council then conducts its own review of the research, with all subcouncils participating. Following this rigorous Scientific Review, the Council votes on whether to recommend the change for implementation by the Red Cross. An approved recommendation is also made available to the public at large through a variety of news media, free of charge.

Continuing Support and Transparency

The Council fully supports each recommendation it issues by making its full Scientific Review available and assigning a “Recommendation Strength.”

This strength is an assessment of the current state of scientific and medical research on the subject of the recommendation. The different strengths are classified as follows:

- **Standards:**

Very strong evidence is available from well designed, prospective, randomized, controlled studies.

- **Guidelines:**

Current evidence is somewhat less robust, such as non-randomized cohort studies, case-control studies, or retrospective observational studies.

- **Options:**

Evidence includes publications, current expert opinion, etc.

After being issued, recommendations and their assigned strengths come under regular Council review, and may be updated earlier as new studies and other scientific advances become available.

Emergencies Don't Happen Under Laboratory Conditions

Emergencies don't fall neatly within a single scientific or medical discipline. Consider the Scientific Advisory Council's guidance for handling a drowning emergency. It includes how best to recognize and approach a potential victim (Aquatics Subcouncil), how to resuscitate the victim (CPR Subcouncil), and how to handle and transport the victim (First Aid Subcouncil).

The Council's multidisciplinary approach delivers the full range of what you need in a real emergency: leading-edge, evidence-based scientific expertise, plus the crucial know-how of generations of true, hands-on field experience.

This multidisciplinary approach is important. Simply put, Red Cross training means better outcomes for you and your people out here in the real world – where real emergencies happen.

A Vast Resource of Real-World Experience

Learning What Works Best, from the Ground Up

The American Red Cross has been helping individuals, families, and organizations large and small to prevent, prepare for, and respond to emergencies for more than 125 years. Each year we respond to more than 70,000 disasters and emergencies nationwide, ranging from single-family home and apartment fires to workplace accidents, from hazardous materials spills to hurricanes and other natural disasters affecting millions of people.

More than 500,000 Red Cross volunteers and over 31,000 Red Cross employees help provide these critically important emergency aid services. We've developed an invaluable body of solid, practical experience, the sort of experience you and your organization can depend on in an emergency.

Making Sure It Works

The Red Cross field organization is an extraordinary resource for the Scientific Advisory Council, allowing the Council to quickly augment its scientific and medical expertise with actual data from the field.

Many Council members themselves work in the field with the Red Cross and other organizations, gathering first-hand knowledge of what works best under actual emergency conditions.

The Council monitors the effectiveness of all its recommended emergency techniques after they are issued to the field. This follow-up includes thorough scrutiny of program feedback from the local chapters and on-going, pro-active reviews such as:

- **Disaster Health:**
Data is developed annually and after each event.
- **Aquatics:**
Data is collected on rescues by lifeguards not only in the United States but also in Canada.
- **First Aid:**
National and international data on injuries and illnesses are reviewed to establish where education is needed. Surveys are conducted in the field to determine how recommended techniques are being taught, if they are clearly understood, and how well the techniques are remembered. This last aspect is very important. For example, these surveys have determined that occasional short refresher courses have a major impact on trainees' recall of course material and proper technique. In addition, every new recommendation is reviewed and updated three years after being issued, and all recommendations are reviewed in the light of new research every five years.

Clear Instructions: A Huge Advantage in Emergencies

When an emergency happens, there is no time to figure out what to do or decipher complicated, hard-to-follow instructions. That's why the Scientific Advisory Council uses all its resources – evidence-based scientific and medical research, the direct field experience of its members, feedback from the field, and follow-up surveys and research – to craft recommendations that are easy to use and easy to remember in an emergency.



The Scientific Advisory Council takes the very latest scientific knowledge and combines it with the Red Cross's extensive field experience to create clear, easy-to-follow procedures.

They are especially designed to be easy to remember, even in the stress of an emergency.

Organization of the Scientific Advisory Council

A Subcouncil Structure Ensures Depth and Breadth of Expertise

The overall Scientific Advisory Council is made up of a number of specialized subcouncils, whose members prepare the research briefs and recommendations reviewed by the full Council. In addition to being experts in their own specialties, the subcouncil members are also knowledgeable in evaluating research methods and study designs, so they can fairly judge the quality and strength of the research they review.

The Subcouncils

Aquatics

The Aquatics Subcouncil reviews ways to keep people safe around water, including lifeguarding techniques; swimming instruction; causes, recognition, and prevention of water emergencies; and rescue, resuscitation, and transport.

CPR

This subcouncil studies cardio-pulmonary resuscitation (CPR), choking, and general resuscitation. The subcouncil also studies defibrillation and the optimized use of Automated External Defibrillators (AEDs).

Disaster Health

A disaster brings not only medical emergencies, but also tough conditions that make the provision of aid extremely challenging. The Disaster Health Subcouncil addresses how to provide acute and chronic medical and mental care under such conditions, for disaster victims and for the emergency staff caring for them.

First Aid

The First Aid Subcouncil's range of study is quite broad, including the care of victims in every scale of emergency, from caring for oneself to care rendered by professional emergency responders on the roadside, in the wilderness, in aquatic environments, in a shelter: everything up to the care provided in a hospital.

Nursing and Care-Giving

This subcouncil addresses nursing and care-giving issues from an interdisciplinary perspective. The focus is on the knowledge and skills necessary to ensure health and safety when providing person-centered, culturally sensitive, evidence-based care to others.

Preparedness

The Preparedness Subcouncil looks for the best ways to prepare for emergencies of every kind, from those that occur in the home to regional disasters, including how to train people to be more resilient after hardship, and how to keep communities whole and businesses operating.

Leadership of the Scientific Advisory Council

Within the Red Cross organization, the Scientific Advisory Council is part of the Preparedness, Health, and Safety Services Division, with the Council Chair reporting directly to the Division President.

In partnership with the Division President, the Chair of the Council guides the group's research priorities and develops its annual strategic plan. During reviews of the subcouncil recommendations, the Chair helps to develop consensus among Council members. The Chair also appoints subcouncil chairs and recommends candidates for Council membership to the Division President.



**David Markenson,
MD, FAAP, EMT-P
Council Chair**

The Chair of the American Red Cross Scientific Advisory Council is Dr. David Markenson.

Dr. Markenson is a board-certified pediatrician with fellowship training in both

Pediatric Emergency Medicine and Pediatric Critical Care. He is Medical Director of Disaster Medicine and Regional Emergency Services at the Westchester Medical Center and Maria Fareri Children's Hospital, and the former Chief of Pediatric Emergency Medicine. Dr. Markenson serves as the Director of the Center for Disaster Medicine at New York Medical College, where he is also a Professor of Pediatrics and of Public Health.

Prior to his present positions, Dr. Markenson was Deputy Director of the National Center for Disaster Preparedness at Columbia University. He directed development of national guidelines for emergency preparedness for both children and persons with disabilities. He has authored or co-authored over 50 peer-reviewed articles, authored two text books, *Pediatric Prehospital Care* and *Healthcare Emergency Preparedness*, served as deputy editor for *Basic Disaster Life Support*, and contributed chapters to multiple textbooks. In addition, he has lead over 30 research grants in the areas of pediatric emergency medicine, resuscitation, healthcare provider education, and disaster medicine.



Dr. Markenson, who holds a BA from Union College and an MD from Albert Einstein College of Medicine, serves in editorial roles for multiple professional scientific journals, holds leadership positions in the American Academy of Pediatrics, American College of Emergency Physicians, American Medical Association, and the Society for Critical Care Medicine. He has served as an advisor to multiple governmental activities and agencies including the FEMA National Advisory Council.



Aquatics Subcouncil



Peter G. Wernicki, MD, FAAOS
Aquatics Subcouncil Chair

Dr. Wernicki is an Associate Clinical Professor in Orthopedic Surgery at the University of Florida Medical School, specializing in sports medicine. He is the Medical Advisor of the U.S.

Lifesaving Association, past Chair of the International Life Saving Federation's Medical Committee, and the ILS medical representative to the IOC / WADA Anti-Doping Committee.

Keynote Speaker at the 2011 World Conference on Drowning, Dr. Wernicki is a co-author of *The Manual of Open Water Lifesaving* and *The Handbook on Drowning*. He was Co-Chair of the US Lifesaving Standards Coalition. He has been the team physician for the LA Dodgers and Tampa Bay Rays, physician for the Hawaii Ironman, and a U. S. Team Physician at the Goodwill Games.

Dr. Wernicki's education includes the University of Virginia, Rutgers Medical School, Chief Resident in Orthopedic Surgery at Union Memorial Hospital and Johns Hopkins. He has completed Sports Medicine and Arthroscopy fellowships.



Peter R. Chambers, PhD, DO

Dr. Chambers is Chair of Emergency Medicine at the Mayo Clinic Health System/LaCrosse. He serves on the faculty of the Department of Exercise and Sport Science at the University of Wisconsin, and as Medical

Director of the Great Lakes Region of the United States Lifesaving Association. He directs efforts both in the U.S. Lifesaving Standards Coalition and in academia to advance evidence-based research in lifesaving and swimming. Most recently, he developed the Aquatic Rescue Response Class for First Responders.

Dr. Chambers is a member of the USA Swimming High Performance Enhancement Team. He is also a flight surgeon in the United States Air National Guard, participating in disaster response, medical airlift, and tours of duty in Iraq.

Dr. Chambers received his BA from Chapman University, a Master's and PhD from United States International University, and his DO from the New England College of Osteopathic Medicine.



Roy Fielding

Mr. Fielding is a Senior Lecturer in the Department of Kinesiology at the University of North Carolina at Charlotte. He is Vice Chair of both the Centers for Disease Control and Prevention's Model Aquatic Health

Code Technical Committee on Bather Supervision and Lifeguarding, and the Technical Committee on Recirculation and Filtering. Mr. Fielding has assisted the Red Cross for several years with the development and implementation of the Lifeguarding and Lifeguard Management programs. Mr. Fielding was recently named one of the most influential individuals in aquatics in the United States. He developed the ongoing Lifeguard Rescue Reporting System to help research what really happens in the field with water rescues. This research is intended to help give evidence-based results to be used in future program development.

Mr. Fielding holds BA and MA degrees from the University of Northern Iowa.



Stephen J. Langendorfer, PhD

Dr. Langendorfer is Professor of Kinesiology at Bowling Green State University. He has authored numerous scholarly articles and presentations in motor development, aquatics, and measurement, and is the co-author

of *Aquatic Readiness: Developing Water Competence*. He is founding editor of the *International Journal of Aquatic Research and Education*.

A volunteer American Red Cross instructor since 1967, Dr. Langendorfer has earned numerous Red Cross certifications. He has served on several Red Cross aquatics advisory committees and on the National Faculty in Aquatics, and represented the Red Cross on the United States Lifeguarding Standards Coalition. The Commodore Longfellow Society recognized Dr. Langendorfer with the Golden Whale Award, its highest honor, in 1993 and inducted him into the organization's Lifesaving Hall of Fame.

Dr. Langendorfer holds a BS in Education from SUNY-Cortland, an MS from Purdue University, and a PhD from the University of Wisconsin-Madison.



Teresa (Terri) Lees

Ms. Lees is the Aquatic Supervisor of the North Kansas City Community Center. She has been professionally involved in aquatics for over thirty years, teaching and coaching aquatics before becoming Aquatic Coordinator

at the Heskett Center for Campus Recreation at Wichita State University. She helped open the Community Center in North Kansas City, Missouri in 2000.

Ms. Lees is a past Chair of the Council for Aquatic Professionals of the American Association for Physical Activity and Recreation. She is a Master Trainer for WaterART Fitness and holds Aquatic Personal Trainer and Aquatic Rehabilitation Specialist credentials. She is a Red Cross Instructor Trainer in many aquatic programs and consults with hospitals on aquatics for individuals with disabilities. She has also participated in research studies for the Lifeguard Standards Coalition.

Ms. Lees holds a Master's degree in Physical Education from Emporia State University.



Linda Quan, MD

Dr. Quan is a pediatric emergency physician at Seattle Children's Hospital, where she has served as Chief of Emergency Services and President of the Medical Staff. In addition to clinical work, she is also

Professor of Pediatrics at the University of Washington School of Medicine.

Board-certified in both Pediatrics and Pediatric Emergency Medicine, Dr. Quan has served on numerous national committees for the American Academy of Pediatrics, the American Heart Association, the Emergency Medical Services for Children Agency, and the Centers for Disease Control Injury Prevention Center. Her own research has been focused on the study of drowning, developing better means of drowning prevention, and understanding and preventing pediatric cardiac arrest.

Dr. Quan received her BA from Smith College, her BMS from Dartmouth Medical School, and her MD and Pediatric Residency from the University of Washington School of Medicine.



The Red Cross Scientific Advisory Council has set the standard for swimming instruction and drowning prevention programs, and provided guidelines and training in the recognition, rescue, and survival of people at risk of drowning.



CPR Subcouncil



Richard N. Bradley, MD
CPR Subcouncil Chair

Dr. Bradley is an Associate Professor of Emergency Medicine at the University of Texas Medical School at Houston. He serves there as the Chief of the Division of Emergency Medical Services and Disaster Medicine.

Dr. Bradley is board-certified in Emergency Medicine and is a fellow of the American College of Emergency Physicians. He began his American Red Cross career in 1977, serving as a volunteer at the Santa Clara Valley (California) Chapter. He has thirty years of experience elsewhere in the field of emergency service, as well, as both a firefighter and a paramedic.

Dr. Bradley received his undergraduate degree from Santa Clara University. He attended medical school at Georgetown University and completed a residency in Emergency Medicine at Stanford University, followed by a fellowship in Emergency Medical Services with the Houston Fire Department.



Wendell Jones, MD, MBA, CPE, FACP

Dr. Jones is the Chief Medical Officer of the Veterans Integrated Service Network 17 and a Clinical Instructor, Internal Medicine, at the University of Texas Southwestern. He is a member of the American Heart Association's

Advanced Cardiac Life Support Affiliate Faculty.

Dr. Jones is an Advanced Cardiac Life Support Instructor and Program Coordinator at the Dallas, Texas VA Medical Center and directs courses in both Cardiopulmonary Resuscitation (CPR) and Advanced Cardiac Life Support at annual conferences of the National Medical Association. He is a Fellow of the American College of Physicians and is a Certified Physician Executive in the American College of Physician Executives.

Dr. Jones received his BS in Biology from Morehouse College and his MD from the Morehouse School of Medicine, with a residency in Internal Medicine at Jackson Memorial Hospital. He received his MBA from the University of Miami.



Siobán Kennedy

Ms. Kennedy is an Advanced Care Paramedic with over 23 years' experience in urban and rural EMS systems. She is the Manager of Paramedic Practice at Sunnybrook Centre for Prehospital Medicine,

which provides medical oversight and continuing medical education for over 2000 paramedics in seven EMS systems. Ms. Kennedy also serves on the Board of Directors of the Ontario Paramedic Association.

Ms. Kennedy has been a volunteer with the Canadian Red Cross for over 13 years. She has participated in the organization's Injury Prevention Programs (Emergency Medical Response) and in its Disaster Management Program as an instructor, planner, exercise designer, and field responder. She is a member of the National Association of EMS Educators and a certified Quality Improvement Associate with the American Society of Quality.

Ms. Kennedy holds a Master's degree in Leadership from Royal Roads University.



Stamatis Larakis, MD, FACC, FAHA, FASE

Dr. Larakis is Professor of Medicine (Cardiology), Radiology and Imaging Sciences at Emory University School of Medicine; Director of Cardiac MRI and Interventional Echocardiography

at Emory University Hospital; and Adjunct Professor of Biomedical Engineering at Emory University and Georgia Institute of Technology.

Dr. Larakis received the Gerald Pohost Best Manuscript Award from *The Journal of Cardiac Magnetic Resonance* and was recognized as one of "America's Top Cardiologists" by the Consumers' Research Council of America. A member of multiple scientific committees, he has lectured extensively in the United States and internationally.

Dr. Larakis received his MD from the Medical School of Athens (Greece), followed by clinical research in Nuclear Cardiology at Mount Sinai Medical Center. After training in Internal Medicine at the Presbyterian Medical Center of Philadelphia, he completed fellowships in Critical Care at Brown University, Cardiology at the University of Texas Medical Branch, and Echocardiography at Emory University.



Michael G. Millin, MD, MPH

Dr. Millin is an Assistant Professor of Emergency Medicine at the Johns Hopkins University School of Medicine. He is also the Medical Director of both the BWI Airport Fire & Rescue Department, where he oversees a large public access defibrillation (PAD) program, and the Johns Hopkins critical care transport program, Lifeline. In addition, he serves on Maryland's EMS Protocol Committee.

Dr. Millin is very active in the research and development of EMS systems and the education of the lay public and first responders in basic first aid and CPR. He also serves on a Federal Disaster Medical Assistance Team.

Dr. Millin received his undergraduate degrees from Oberlin College and attended medical school at Rush Medical College in Illinois, with an emergency medicine residency at Michigan State University, an EMS fellowship at the Oregon Health and Science University, and the MPH in Health Management and Policy from Oregon State University.



Ira Nemeth, MD

Dr. Nemeth is an Assistant Professor in the Department of Medicine and Director of EMS and Disaster Medicine at Baylor College of Medicine, and the Assistant Medical Director for Ben Taub General Hospital's Emergency Department. He served as an Assistant Professor in the Department of Surgery at the University of Texas Southwestern Medical Center and as Assistant Medical Director of the Dallas Metropolitan BioTel (EMS) System.

Dr. Nemeth is a Fellow of the American College of Emergency Physicians and Chair of the organization's Disaster Section, and Chair of the EMS Committee of the Texas College of Emergency Physicians. He is the author of numerous book chapters and articles for peer-reviewed professional journals.

Dr. Nemeth received his BS from Tulane University School of Engineering and his MD from George Washington University School of Medicine, with a Fellowship in Governmental Emergency Security Services at the University of Texas Southwestern Medical Center, Dallas.



Joseph W. Rossano, MD

Dr. Rossano is an Assistant Professor of Pediatrics / Cardiology at the University of Pennsylvania and the Children's Hospital of Philadelphia, where he is the Medical Director for Heart Transplantation and an attending in the Cardiac Intensive Care Unit. His postgraduate training included Pediatric Cardiology, Heart Transplant and Advanced Heart Failure/Cardiac Intensive Care.

Dr. Rossano's research interests include automated external defibrillators (AEDs) and their application to pediatric patients, including outcomes of use among children suffering from heart disease. His research articles have appeared in a number of professional journals, and he is a member of the American Academy of Pediatrics, the American College of Cardiology, the American Heart Association, and the International Society for Heart and Lung Transplantation.

Dr. Rossano received his BS in Zoology from Northern Arizona University, an MS in Clinical Research from Baylor College of Medicine, and his MD at the University of Arizona College of Medicine.



Joan E. Shook, MD, FAAP, FACEP

Dr. Shook is Professor of Pediatrics in the Pediatric Emergency Medicine Section at Baylor College of Medicine. As Head of the Section for twenty-two years, she was Director of the Emergency Department and the first Director of Baylor's Pediatric Emergency Medicine Fellowship. In 2012, she joined Texas Children's Hospital and Integrated Delivery System as Chief Safety Officer and Chief Clinical Officer. She is also an Adjunct Professor in Administrative Science at Rice University.

Dr. Shook has served as a member and Chair of the Texas Department of Health Governor's Emergency and Trauma Advisory Committee. She has also been lead investigator on several research grants and has written numerous articles for peer-reviewed professional journals.

Dr. Shook received her BA from Brown University, her MD from the University of Cincinnati College of Medicine, and her MBA from the University of Houston, with a Fellowship in Ambulatory Pediatrics at Baylor College of Medicine.



Disaster Health Subcouncil



Jonathan L. Epstein,
MEMS, NREMT-P
Disaster Health Subcouncil Chair

Mr. Epstein is the Executive Director of NorthEast Emergency Services, Inc./ Massachusetts Region III EMS Council. Mr. Epstein has served as an instructor, training coordinator, and consultant to a diverse constituency in the public, non-profit, and for-profit sectors of emergency services. He is a member of the International Trauma Life Support Board of Directors and Chair of the EMS Education Committee of the Commonwealth of Massachusetts. Mr. Epstein also serves as Chair of the Information Sharing and Interoperability Committees of the Northeast Regional Homeland Security Council.

In addition to his direct EMS roles, Mr. Epstein is an active participant in hospital preparedness efforts, with a keen interest in assessing and improving the effectiveness of resuscitation procedures and in increasing the availability of automatic external defibrillators (AEDs).

Mr. Epstein earned his Master's degree in Emergency Medical Services at Hahnemann University.



Judith K. Bass, PhD, MPH

Dr. Bass is an Assistant Professor in the Department of Mental Health and a faculty member in the Center for Refugee and Disaster Response (CRDR) at the Johns Hopkins Bloomberg School of Public Health.

Her focus there is on developing methods for evaluating mental health needs in complex situations, including post-disaster and low-resource settings.

She has extensive experience conducting needs assessments and evaluating interventions in populations affected by war and trauma. Domestically, she has collaborated with the Memorial Hospital Foundation on a monitoring program of school-based counseling services for youth affected by Hurricane Katrina.

Dr. Bass is the author of numerous scientific articles and regularly presents at technical conferences on trauma-affected populations.

Dr. Bass received her BA from Brandeis University, her MPH from the Columbia University School of Public Health, and her PhD in Psychiatric Epidemiology from Johns Hopkins University's Bloomberg School of Public Health.



Frederick (Skip) M. Burkle, Jr.,
MD, MPH, DTM, FAAP, FACEP

Dr. Burkle serves as a Senior Fellow and Scientist in the Harvard Humanitarian Initiative, Harvard School of Public Health; Senior International Public Policy Scholar, Woodrow Wilson Center for International Scholars; and Senior Associate Faculty Member, Department of International Health, at Johns Hopkins University Medical Institutes. In 2007, he was elected to the Institute of Medicine of the National Academy of Sciences. He is a combat-decorated, retired Naval Reserve Captain.

Dr. Burkle has assisted in humanitarian emergencies around the world. He served as Deputy Assistant Administrator of the Bureau of Global Health, USAID and as Interim Minister of Health in Iraq. He has authored numerous peer-reviewed articles, chapters, books, and abstracts, and edits several professional journals. He is a graduate of Saint Michael's College and the University of Vermont College of Medicine, with post-graduate degrees from Yale, Harvard, Dartmouth, and the University of California, Berkeley.



Jeffrey H. Fox, PhD

Dr. Fox has over 35 years' experience as a psychologist, working with adults, children, and families, and consulting for police organizations, the military, schools, and businesses coping with stressful change. He is an Associate Fellow of the Institute of Rational Emotive Therapy, and a member of the American Psychological Association, the Association for Treatment of Sexual Abusers, and the New York State Psychological Association.

Dr. Fox is a disaster mental health volunteer for the Red Cross. He is Regional Chair of Disaster Mental Services, Northeast New York Region; a Lead Trainer in Coping with Deployment; and participates in other Red Cross services to the Armed Forces. He has served as Chief Psychologist of the Capitol District Developmental Services Office, a division of the New York State Office of Mental Retardation and Developmental Disabilities.

Dr. Fox completed his PhD in Developmental Psychology at the State University of New York.

American Red Cross Scientific Advisory Council



Robin M. Ikeda, MD, MPH

Dr. Ikeda is Deputy Director for the Centers for Disease Control and Prevention and CDC's Director for Noncommunicable Diseases, Injury and Environmental Health.

Prior to these appointments, Dr. Ikeda was the National Center for Injury Prevention and Control's Associate Director for Science and the Associate Director for Science within both CDC's Epidemiology Program Office and the Office of Workforce and Career Development. She has held a wide range of positions within NCIPC, including Team Leader and staff epidemiologist, and has worked on issues ranging from youth violence and suicide to motor vehicle crashes.

Dr. Ikeda holds a BA from Stanford University, an MD from Cornell University Medical College, and an MPH (Epidemiology) from the Emory University Rollins School of Public Health. She is board-certified in both Internal Medicine and Preventive Medicine and holds the rank of Captain in the United States Public Health Service.



Rebecca S. Noe, MN, MPH, FNP

Ms. Noe is an epidemiologist at the Centers for Disease Control. With the CDC, she has worked as an Epidemic Intelligence Officer in Alaska, conducting injury prevention research, and deployed to New

Orleans in the response to Hurricane Katrina. She has been a project officer for the CDC's Disaster Surveillance Workgroup and has worked on the Disaster Emergency and Response Team at the National Center for Environmental Health, involved in several post-disaster community needs assessments. She was deployed by the CDC to American Samoa to assist survivors of the 2009 tsunami there.

Ms. Noe is CDC's project officer for American Red Cross-CDC disaster surveillance systems. She is one of CDC's extreme weather event experts, and in 2011 provided technical assistance in the Red Cross tornado disaster response in Alabama.

Ms. Noe received her BSN from Temple University and her MN / MPH and FNP at the University of Washington.



Tener Goodwin Veenema, PhD, MPH, MS, FNAP, FAAN

Dr. Veenema is a Senior Consultant, Disaster Preparedness, in the U.S. Department of Health and Human Services. A nationally recognized expert in disaster preparedness and emergency management, she wrote the *ReadyRN Curriculum for Disaster Nursing and Public Health Emergency Preparedness* and *Red Cross ReadyRN*. She also designed and directed a master's degree program on leadership in disaster/emergency health care systems, recognized for excellence in *The Annual Review of Nursing Education*.

Dr. Veenema was selected as a Fellow of the National Academies of Practice and the American Academy of Nursing, as a Robert Wood Johnson Executive Nurse Fellow, and as Senior Fellow in Nursing Policy and Philanthropy at the Robert Wood Johnson Foundation and at the Center for State Health Policy at Rutgers University.

Dr. Veenema received her BSN from Columbia University and her MS, PNP, MPH and PhD at the University of Rochester School of Medicine and Dentistry.





First Aid Subcouncil



Andrew MacPherson, MD, CCFP-EM
First Aid Subcouncil Chair

Dr. MacPherson is a full-time Emergency Physician in Victoria, BC; previous Chief of Emergency Medicine for two Victoria emergency departments; and serves as the medical consultant to the British

Columbia Ambulance Service in Victoria. He is also a front-line ski physician on the Whistler Mountain Ski Patrol, and served as a medical director for the 2010 Olympic Games.

Dr. MacPherson is involved in undergraduate and postgraduate medical education, prehospital first aid/CPR research, and provides medical oversight for a number of prehospital AED programs. He is a volunteer with the Canadian Red Cross and is the Chair of the Canadian Red Cross National Medical Advisory Committee.

Dr. MacPherson attended medical school at the University of British Columbia (Vancouver) and completed his residency in Emergency Medicine at the University of Alberta. He is currently obtaining further training in one of his areas of interest, Wilderness Medicine.



L. Kristian Arnold, MD, MPH, FACEP

Dr. Arnold is Chief Medical Officer, ArLac Health Services, and Medical Director of the Boston Police Department's Occupational Medicine Unit. He is a founding member of the American College of Occupational

and Environmental Medicine Task Force on Guidelines Development for Medical Evaluation of Police Officers. Dr. Arnold has served as Assistant Professor for Emergency Medicine at Boston University and as Chair of the International Interest Group of the Society for Academic Emergency Medicine.

An important focus of Dr. Arnold's work is public safety and the health and safety of disaster workers. He has been a member of several national and international task forces for the development of emergency and disaster medical care and for improved medical management of public safety personnel. He is a fellow of the American College of Emergency Physicians.

Dr. Arnold earned his BA and MD from Duke University and his MPH from Boston University.



David C. Berry, PhD, ATC, EMT-B

Dr. Berry has been a Certified and Licensed Athletic Trainer for over 15 years, working in a variety of clinical and higher education settings. He is currently an Assistant Professor and Coordinator of Athletic

Training Clinical Education at Weber State University and Coordinator of the CPR and First Aid Program at the University and at several surrounding high schools.

A volunteer at the Northern Utah Chapter of the Red Cross, Dr. Berry is a member of the chapter's Health and Safety Committee.

Dr. Berry earned his BS in Health Education from the University of Massachusetts Lowell. He also holds a Master of Arts in Physical Education - Athletic Training from Western Michigan University; a Master of Arts in Teaching, specialization in Health Education, from Sacred Heart University; and a PhD in Curriculum and Instruction from Ohio University with a cognate in athletic training and college teaching.



Adelita Gonzales Cantu, PhD, RN

Dr. Cantu is an Assistant Professor in the Department of Family and Community Health Systems at the University of Texas Health Science Center. She has served as Director of Patient Satisfaction/Customer

Service and as Administrative Director of Acute Care Clinics, Medicine Clinics, Family Health, and Geriatric Clinic at the University Health System.

Dr. Cantu has published numerous articles in peer-reviewed journals. She received the Ildaura Murillo-Rhode Award for Educational Excellence and the Henrietta Villascusa Community Service Award from the National Association of Hispanic Nurses, the Partner Award from South Texas AHEC, and the Cultural Competency Leadership Fellowship, and was chosen for University Health System's Adjunct Nursing Faculty Team of the Year.

Dr. Cantu received her BSN from Incarnate Word College and MS, Community Nursing Administration, from Texas Women's University. She completed her PhD in Clinical Nursing Research and a Fellowship in Multidisciplinary Clinical Research at the University of Texas Health Sciences Center.



**Lewis J. Kaplan, MD, FACS,
FCCM, FCCP**

Dr. Kaplan is an Associate Professor at the Yale University School of Medicine and senior member of the Trauma, Surgical Critical Care and Surgical Emergencies Section. He established the Emergency General Surgery program at Yale and directed the surgical ICU and critical care fellowships.

He is Chair of the Surgical Infection Society's Guidelines and Therapeutic Agents Committee, and serves in the Surgery-designated seat on the Council of the Society of Critical Care Medicine. Author or coauthor of over 100 articles, chapters, invited editorials, and reviews, Dr. Kaplan serves on seven editorial boards and reviews for fifteen journals. He is also the Director of Tactical Medicine for a regional Special Weapons and Tactics team.

Educated at Franklin and Marshall College (BA) and UMDNJ-Robert Wood Johnson Medical School (MD), Dr. Kaplan completed surgery residency at the Medical College of Pennsylvania and surgical critical care at the University of Pittsburgh.



Edward McManus, MD

Dr. McManus is an Infection Disease Specialist at St. Claire's Health System and a member of ID Associates. He has over 30 years' experience in the field of clinical infectious disease. He served as a clinical fellow at the National Institutes of Health in the National Institute of Allergy and Infectious Diseases from 1986 through 1989 and has been an infectious diseases consultant in private practice since 1989.

Dr. McManus is a member of the Infectious Disease Society of America, the Society of Hospital Epidemiologists of America, and the International Society of Travel Medicine.

After graduating with honors from Johns Hopkins University in 1978, he earned his medical degree at the University of Medicine and Dentistry - New Jersey Medical School in 1982. He completed his internal medicine residency training at the University of Wisconsin Hospital in Madison, WI in 1985 and was selected as Chief Medical Resident the following year.



The Red Cross Scientific Advisory Council's thorough research dispelled the widespread myth that tourniquets were dangerous, leading to the reintroduction of this important technique for the management of life-threatening bleeding.



First Aid Subcouncil (CONTINUED)



**Jeffrey L. Pellegrino, PhD,
FF/EMT-B, W-EMT, EMS-I**

Dr. Pellegrino leads the Faculty Professional Development Center at Kent State University. With faculty and other members of the University and larger community, he works to develop competencies in areas of scholarship, teaching, and learning. His professional concentration is in the area of emergency response of community members. In addition he serves as an Emergency Medical Services Instructor and EMT for Hudson, Ohio's EMS.

A contributor to the International First Aid Science Advisory Board, Dr. Pellegrino also works with numerous local and national youth development agencies, using his first aid and safety programs as a means of personal and community development through service. His 35-year Red Cross affiliation includes working with 10 different local chapters and instructing in health, safety, and disaster services.

Dr. Pellegrino received his BA from Loyola University, his MS from Minnesota State University: Mankato, and his doctorate from the University of Dayton.



S. Robert Seitz, M.Ed, RN, NREMT-P

Mr. Seitz is an Assistant Professor in the Emergency Medicine Program of the University of Pittsburgh's School of Health and Rehabilitation Sciences, serving as both a faculty member and as the senior year

curriculum coordinator.

His has served as Project Coordinator for the Certification and Quality Assurance Testing of Respirators at the National Personal Protective Technology Laboratory and the National Institute for Occupational Safety and Health. He was also Co-Principal Investigator for the study, *Retention of Knowledge and Skills for Basic Life Support and Advanced Cardiac Life Support Providers*. Mr. Seitz has published numerous technical journal articles and serves on *International Trauma Life Support's* editorial board.

Mr. Seitz holds an AAS in Nursing from the University of the State of New York, Regents College; a BS in Emergency Medicine from the University of Pittsburgh; and an MS in Adult Education from the Pennsylvania State University.



Eunice (Nici) Singletary, MD

Dr. Singletary is an Associate Professor of Emergency Medicine at the University of Virginia. Her areas of special interest include wilderness and environmental (outdoor) medicine. A 30-year member of the National Ski Patrol and veteran of their Board of Directors, she works part-time in Montana at the Medical Clinic of Big Sky and as a PSIA ski instructor. She is Co-Medical Advisor for Virgin Islands Search and Rescue (VISAR)/ Virgin Gorda Branch.

Dr. Singletary is a past Assistant Director for the Emergency Medicine Residency Program at Eastern Virginia Medical School, and a 6-year medical team member of the VA-2 Task Force, FEMA Urban Search and Rescue Team. She has authored numerous chapters in several wilderness medicine, emergency medicine, and prehospital care textbooks.

She earned her BA at the University of Virginia, MD at Eastern Virginia Medical School, and completed her residency in Emergency Medicine at Brooke Army Medical Center, Texas.

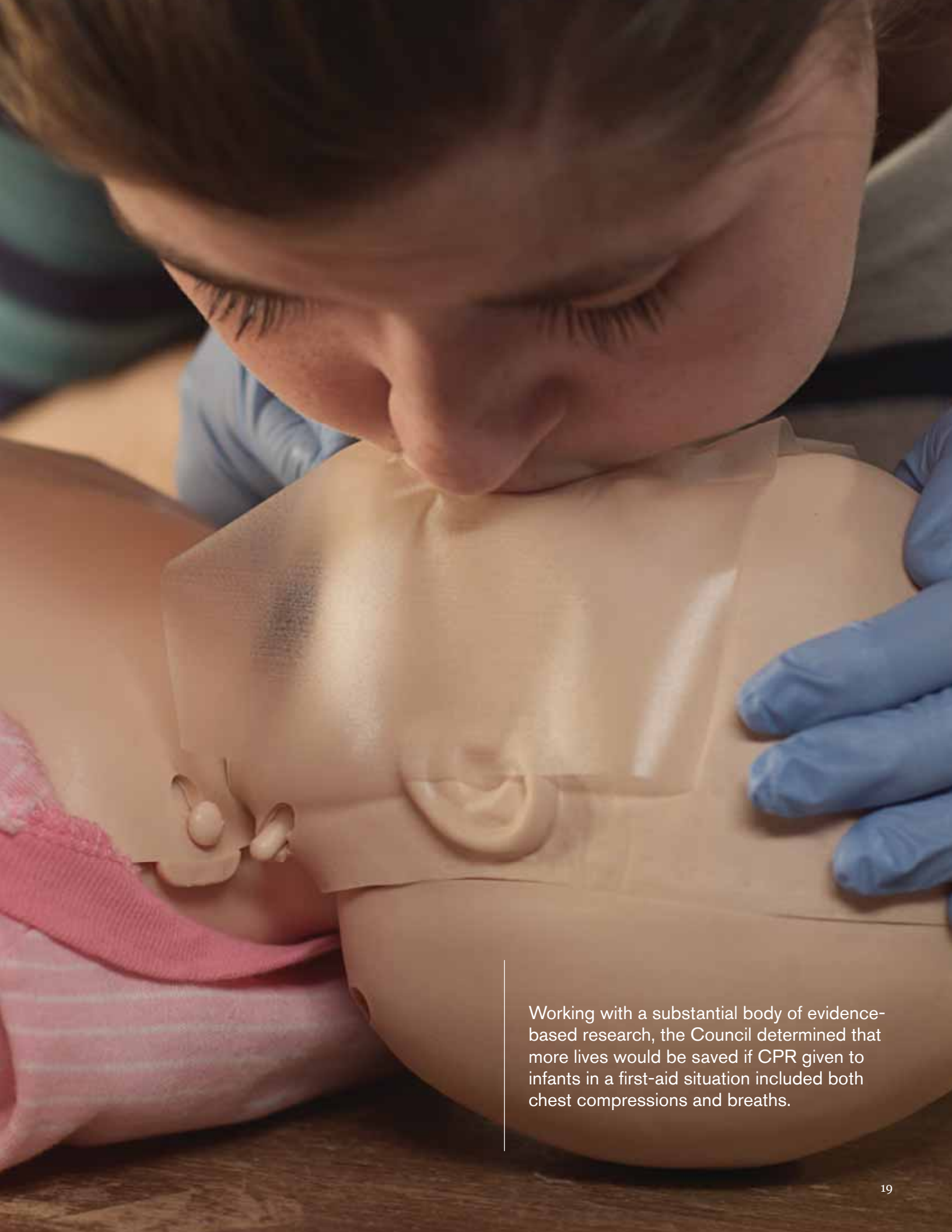


Jeffery S. Upperman, MD

Dr. Upperman is Associate Professor of Surgery at the University of Southern California and Attending Surgeon and Director of the Trauma Program at Children's Hospital of Los Angeles.

A Lieutenant Colonel in the US Army Reserve, Dr. Upperman served as Chief of Surgery with the 848 FST, Task Force Oasis, in Iraq. He is a Fellow of the American Academy of Pediatrics and the American College of Surgeons, and past Chair of both the Informatics and Telemedicine Committee of the American Pediatric Surgical Association and the Nominating Committee of the American College of Surgeons. He served on the Committee of Prepositioned Medical Countermeasures for the Public of the Institute of Medicine of the National Academies and contributed to the Commission 2012 Report of the National Commission on Children and Disasters.

Dr. Upperman received his MA from Stanford University and his MD from New Jersey Medical School.



Working with a substantial body of evidence-based research, the Council determined that more lives would be saved if CPR given to infants in a first-aid situation included both chest compressions and breaths.



Nursing and Care-Giving Subcouncil



Jean Johnson, PhD, RN, FAAN
Nursing and Care-Giving Subcouncil Chair

Dr. Johnson is a Professor and the Dean of the School of Nursing at The George Washington University, where she previously served as Senior Associate Dean for the University's Health Sciences programs.

She has served as President of the National Organization of Nurse Practitioner Faculties and President of the American College of Nurse Practitioners. She has also served on the Pew Health Professions Commission, the National Fund for Medical Education, and the Institute of Medicine's Committee on the Future of Primary Care. She was voted into the American Academy of Nursing and has been awarded the Lifetime Achievement Award by the National Organization of Nurse Practitioner Faculties.

Dr. Johnson earned her BA from University of Illinois and her BS in Nursing from Texas Women's University. She also holds an MS in Nursing from the University of Wisconsin and a Doctoral Degree in Health Policy from The George Washington University.



Christy Blackstone, MSW, LCSW

Ms. Blackstone is a Licensed Clinical Social Worker and the Caregiver Support Coordinator at the Alexandria Veterans Affairs Health Care System. She has served as Client Recovery and Community Outreach Coordinator

for the American Red Cross and the United Way, and as a Functional Family Therapist working with at-risk adolescents.

Ms. Blackstone has extensive experience in policy and program implementation, and in caregiver roles, issues, and burdens related to providing care, especially in homecare of veterans. Her knowledge of research and resources offered to caregivers is particularly useful in interventions and assessments for families, especially in counseling, crisis, mental health, and case management. She provided intensive case management and crisis counseling during and after Hurricane Katrina. Ms. Blackstone has presented at the VHA's National Caregiver Support Conference and the Social Welfare Action Alliance Conference.

Ms. Blackstone received her BSW from Louisiana College and her MSW from Louisiana State University.



Barbara J. Burgel, RN, ANP, PhD, FAAN

Dr. Burgel is Professor of Clinical Nursing and an Adult Nurse Practitioner in the Occupational and Environmental Health Nursing Graduate Program at the University of California, San Francisco, School of Nursing.

In addition to her educational and clinical work, Dr. Burgel is a member of the Board of Directors of Delta Dental of California. She has authored or co-authored book chapters and numerous articles for professional journals, including *The American Journal of Industrial Medicine*, *the Journal of Urban Health*, *the Journal of Health Care for the Poor and Underserved*, and others, and has studied occupational health and safety issues in a variety of different work environments.

Dr. Burgel received her BSN from the University of Michigan and her MS and PhD in Nursing from the University of California, San Francisco.



**Susan L. Carlson, MSN, RN,
ACNS-BC, GNP-BC, FNGNA**

Ms. Carlson is a Nurse Practitioner in the Neurology Department of the South Texas Veterans Healthcare System. She has been elected a fellow of the National Gerontological

Nursing Association, and served as both the Founding President of its Southwest Chapter and as the Association's National President. In addition, she has held several other leadership positions in nursing staff development, palliative care, and home health.

Ms. Carlson has published and presented extensively on numerous healthcare topics. These include, among others, altered health maintenance, care of the elderly patient with seizures, geriatric nursing, and career development in geriatric nursing.

Ms. Carlson received her BS from the University of Hawaii, her MS from the Catholic University of America, and her Post Master's Certificate from the University of Texas Medical Branch. She is board-certified as both a Gerontological Nurse Practitioner and as an Adult Clinical Nurse Specialist.

American Red Cross Scientific Advisory Council



Marie O. Etienne, DNP, ARNP, PLNC

Dr. Etienne is a Professor in the School of Nursing and a Nursing Faculty Service-Learning Coordinator at Miami Dade College. She is Past President of the Haitian American Nurses Association of Florida and serves in continuing relief efforts for earthquake victims in Haiti. She is also a Florida Medical Reserve Corps volunteer.

Dr. Etienne served as Chair of the Haitian American Professionals Coalition and has published several articles on cultural competency, mentoring, and leadership. She was a 2011 Health Information Technology Scholar funded by the U.S. Department of Health and Human Services' HITS Program. She received the 2011 Wall of Fame Award from HANA and the 2011 Nurse.com Excellence Regional Award in the area of Community Service.

Dr. Etienne received her BSN, MSN, ARNP in Pediatrics, and Post-Master's Certificate in Advanced Family Practice and Gerontology from Florida International University, and her Doctor of Nursing Practice from the University of Miami.



Susan M. Heidrich, PhD, RN

Dr. Heidrich is a Nurse Scientist at the Middleton Memorial VA Hospital in Madison, Wisconsin and the Helen Denne Shulte Emeritus Professor at the University of Wisconsin-Madison School of Nursing.

She has served as Principal Investigator on numerous NIH-funded studies of quality of life and symptom management in older cancer survivors. She has published numerous research articles in the areas of coping with chronic illness, aging, and symptom management in *Oncology Nursing Forum*; *Health Psychology*; *Research in Nursing and Health*, and *Journal of Gerontology*. Her areas of professional focus include gerontology and, in particular, gerontological nursing, chronic illness, psychosocial oncology, and women's health.

Dr. Heidrich received her BA in Sociology from Eastern Michigan University, her BS in Nursing from Cornell University, and her MS in Nursing and PhD in Nursing and Psychology from the University of Wisconsin.



Deanna Colburn Hostler, DPT, CCS

Dr. Hostler is a Senior Physical Therapist and Student Coordinator at UPMC Presbyterian/Montefiore Hospitals. She has also worked extensively in acute care hospitals including as a physical therapist at Suburban General Hospital, where she developed a tool for documenting the initial evaluation of rehabilitation patients.

Dr. Hostler's experience has primarily been in acute care, with additional work in Acute Rehabilitation and Skilled Nursing Units. She has significant clinical expertise in acute care Physical Therapy, with specialty certification in the cardiovascular and pulmonary patient population. Her area of research is in physiologic responses of public safety providers working under strenuous conditions. She published multiple articles in emergency care including evaluation of cervical immobilization devices, cooling techniques for firefighters, and fitness characteristics of SWAT teams.

Dr. Hostler received her BS in Biological Sciences and her Masters in Physical Therapy from Ohio University, and her Doctorate in Physical Therapy from Temple University.



Carla M. Tozer, MSN, APN/CNP, ANP-BC, GNP-BC, ACHPN

Ms. Tozer is a Visiting Nursing Practice Specialist / Visiting Clinical Instructor in the College of Nursing at the University of Illinois-Chicago. She is board-certified as an Adult Nurse Practitioner, a Geriatric Nurse Practitioner, and a Hospice and Palliative Nurse Practitioner.

Ms. Tozer has worked with older adults in primary and nursing home care, and in acute and palliative care settings. She has published extensively on hospice care, delirium, dementia, depression, palliative care, and end of life care. She is a past President of the Chicago Gerontological Advanced Practice Nurses Association and serves on several national committees of the parent organization.

Ms. Tozer received her BS in Nursing at North Park College, and both her MS in Nursing as a Geriatric Nurse Practitioner and her Post-Master's Certificate as an Adult Nurse Practitioner from Rush University. She is enrolled in the Doctorate of Nursing Practice program at the University of Illinois-Chicago.



Preparedness Subcouncil



Richard Bissell, PhD, MS, MA
Preparedness Subcouncil Chair

Dr. Richard Bissell is Professor of Emergency Health Services and Graduate Program Director at the University of Maryland, Baltimore County. He has worked as an emergency health services researcher

and led training for medical and logistical response teams within the U.S. Public Health Service's National Disaster Medical System. His research in disaster epidemiology and health services includes over 30 peer-reviewed articles and book chapters.

Dr. Bissell has served with the Centers for Disease Control and Prevention, the U.S. Office of Foreign Disaster Assistance, the German National Committee on Global Change Research, the FEMA Emergency Management Institute, and other local, state, and national governments.

Dr. Bissell holds a BA from the University of California at Davis, Master's degrees in International Studies from the University of Denver and in Preventive Medicine/Health Administration from the University of Colorado Health Sciences Center, and a PhD in International Studies from the University of Denver.



Steven Jensen, PhD

Dr. Jensen is an advisor in Emergency Management and a lecturer at California State University at Long Beach. He has over 30 years of international experience in emergencies and disasters, backed

by a solid academic understanding of the field. With a focus on preparing the next generation to work with emerging patterns of disaster, Dr. Jensen is putting his professional and academic experience into action.

His work as a practitioner in this field started in the late 1970's when he managed refugee camps for the United Nations in Southeast Asia. He has since worked as a firefighter and emergency manager, primarily in New Zealand and the United States.

Dr. Jensen received his BA in International Studies from Whitworth University, an MS in Emergency Management at California State University, and a Doctorate in Policy, Planning, and Development from the University of Southern California.



James A. Judge II, EMT-P, CEM, BPA

Mr. Judge is Executive Director of Lake EMS, Inc. in Mount Dora, FL, where he is responsible for the administration, financial management, and operation of a high-performance emergency medical service.

Mr. Judge's 40-year career in EMS, Fire Services, and Emergency Management has garnered numerous state and national awards for administrative and operational excellence in public safety, including induction into the Florida EMS Hall of Fame for a lifetime of achievement. Under his direction, Lake EMS received the national Jeffrey Harris Paid EMS Service of the Year Award for excellence in EMS system design and patient care, and for fostering a positive and safe work environment for EMS providers.

Mr. Judge holds a Bachelor of Public Administration degree from Barry University. He currently volunteers on several state and national committees and regularly presents on emergency services topics at state and national conferences.



Thomas D. Kirsch, MD, MPH, FACEP

Dr. Kirsch is Co-Director of the Center for Refugee and Disaster Response and Associate Professor at the Johns Hopkins Bloomberg School of Public Health. He is an Assistant Professor at the Johns Hopkins School of

Medicine and serves as Director of Operations and Deputy Director of the School's Office of Critical Event Preparedness and Response. He is also a disaster consultant for WHO, UNICEF, CDC, USAID, and the Medical Reserve Corps.

Dr. Kirsch has authored numerous scientific articles, chapters, and abstracts. He is the editor of *Emergent Field Medicine*; editorial board member of the *AMA's Disaster Medicine and Public Health Preparedness*; and reviewer for *Annals of Emergency Medicine* and former editor of its international section.

Dr. Kirsch holds an MPH from the Johns Hopkins School of Hygiene and Public Health. He received his MD from the University of Nebraska Medical Center, with an Emergency Medicine Residency at George Washington University.



John Lindsay, MCP

Mr. Lindsay is tenured as an Assistant Professor in the Applied Disaster and Emergency Studies department at Brandon University, where he combines research with over 20 years of

experience in emergency management.

He began his work in disaster preparedness as a hazard analyst in Wellington, New Zealand, later managing the Auckland City Council Emergency Management Program. He then served as a Disaster Management Specialist at Manitoba Health in Manitoba, Canada from 1999 to 2005. He began teaching at Brandon University in 2001, joining the department full-time in 2005, and is a member of the Canadian Standards Association Technical Committee on Emergency Management.

Mr. Lindsay received the degree of Master of City Planning from the University of Manitoba in 1993 and is now a Ph.D. candidate at the Joint Center for Disaster Research at Massey University in New Zealand, with a research focus on urban planning and emergency management.



Scott C. Somers, PhD, EMT-P

Dr. Somers is a member of the Phoenix, Arizona Fire Department and a Certified Emergency Paramedic. He has also served as a Hazardous Materials Specialist with FEMA Urban Search and Rescue.

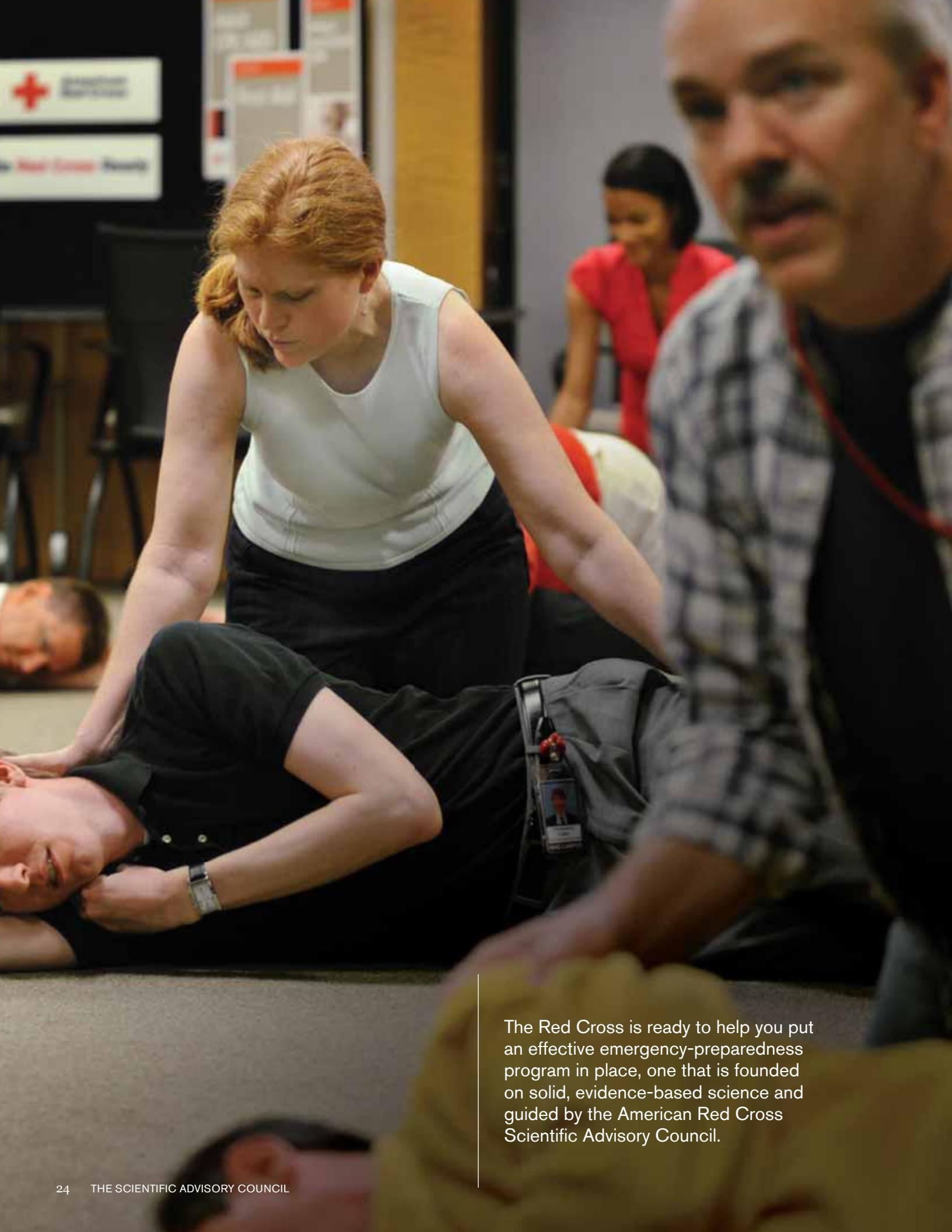
These roles, plus his academic work and being elected to the Mesa City Council, give him a multifaceted perspective on how to prepare for, respond to, and mitigate natural hazards and national security events.

Dr. Somers has served on several state and national committees, including the National League of Cities Public Safety and Crime Prevention Committee, the National Homeland Security Consortium, and the Preparedness, Response and Resilience Task Force at the Homeland Security Policy Institute. He was appointed by the U.S. Secretary of Transportation to the National EMS Advisory Council.

Dr. Somers received his BS, MS, and PhD from Arizona State University and has published numerous peer-reviewed journal articles and book chapters on disaster preparedness and related research subjects.



The Council supplied guidelines not only on the proper operation and application of Automatic External Defibrillators, but also on when they should be employed, where they should be placed, and other important practical steps designed to optimize their use.



The Red Cross is ready to help you put an effective emergency-preparedness program in place, one that is founded on solid, evidence-based science and guided by the American Red Cross Scientific Advisory Council.

A Wealth of Scientific Expertise *and* Practical Experience, Working for You

You Can Trust the American Red Cross

No one wants an emergency. No one wants to experience a disaster. But we know this: such unwelcome events will happen.

That's why it is so important to be ready, to prepare in advance, in case an emergency should happen to *your* organization.

The Red Cross can help you make your organization ready, with a full complement of materials and training based on solid, evidence-based research. Materials and training guided by the deep scientific expertise and broad experience of the American Red Cross Scientific Advisory Council.



What To Do Now

What's the most prudent step you can take right now, to make your organization ready?

All you have to do is this: *get in touch with us.*

Just call your local Red Cross chapter or go to our website, at redcross.org. You'll find easy-to-follow guidance and friendly, experienced people ready to help you design the perfect program for your needs.

Contact us today. Put the American Red Cross to work for *you*.



A Choice You Can Be Sure Of

The American Red Cross is the nation's premier provider of education, training, and products that enable people to prevent, prepare for, and respond to disasters and other life-threatening emergencies.

We use classroom training and digital tools such as apps, web-based content, and downloadable resources to teach emergency skills and give preparedness guidance to ***over 15 million people a year.***

Choosing a training partner is an important decision, one on which your people's health and safety – and even their lives – could depend.

You can be confident that the materials and training provided by the Red Cross are guided by the American Red Cross Scientific Advisory Council. Prepare your organization with a firm foundation in evidence-based medical and scientific research and the vast, real-world experience of the Red Cross.





Red Cross Training Saves Lives™

The American Red Cross prevents and alleviates human suffering in the face of emergencies by mobilizing the power of volunteers and the generosity of donors.

The American Red Cross Scientific Advisory Council is a panel of nationally recognized experts in emergency medicine, sports medicine, emergency medical services (EMS), emergency preparedness, disaster mobilization and other public health and safety fields. The Council helps assure that Red Cross courses, training materials and products incorporate the latest scientific and technical information.

For more information about how the American Red Cross can assist you in improving your organization's safety and preparedness program, contact your local Red Cross chapter or visit redcross.org.

©2013 American Red Cross.