

WRIGHT STATE UNIVERSITY National Center for Medical Readiness Calamityville®

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NCMR focuses on preparing FIRST PROVIDERS: The civilian and military health professionals at all levels who respond to natural disasters, public health emergencies and the consequences of weapons of mass destruction.

NCMR/Calamityville's mission is to establish disaster resilient health-care systems within our nation's communities.

- Identifies the unique teamwork demands for medical decision-making and operations within stressful, difficult and extreme environments.
- Integrates task training, classroom and field education, high-fidelity simulation and exercises.
- Site emulates a wide variety of disaster environments and challenging field care settings transitioning to medical facility simulated settings.
- Complements missions of current national training centers

Dedicated to fostering Civil-Military collaboration and Joint Command orientation.

- Long history of close relationships with USAF, linked to the only fully integrated civilian-military emergency medicine residency program in the nation.
- Working relationships in education and research with different branches within the USAF, e.g., Surgeon General, Air Force Institute of Technology, Research Laboratory, Aerospace Medicine.
- Shared military/civilian education, training and research programs underway on-site based on unique civilian and military training and exercise requirements.
- Fully reconfigurable Joint Command Operations and Research Environment (J-CORE) and Emergency Operations Center (EOC) established on-site.

Advanced facility and infrastructure master planning

- Comprehensive site infrastructure provides water, power, and high bandwidth IT capabilities.
- On-site, high volume wells provide high-output water for decontamination, flooding or other water-based feature or simulation.
- Selected site features are pre-designed, and others based on 'empty stage.' This allows for maximally flexible scenario based training and exercise settings.
- New equipment, procedures, and technology can be realistically applied and assessed.



Technology

- Integration of layered sensor systems provides a high level of user safety, as well as research opportunities.
- High bandwidth and internet systems allow for use and testing of sophisticated information and communications systems.
- External field activities can be simultaneously viewed in the classroom setting with filming/recording of activities.
- Sophisticated individual performance monitoring system for trainee physical condition and task performance.
- Web-based training and exercise programs ('Virtual Calamityville') being developed to permit learning and practice before and after on-site visit.
- Level of realism can be matched to the skill levels and training needs of individuals and teams.
- High-fidelity patient simulators are integrated with live patients in realistic physical surroundings to challenge all elements of medical decision-making, care, and transport.



Fully integrated with Wright State University/ Boonshoft School of Medicine

- Sponsored by the Wright State University, Boonshoft School of Medicine, Dayton, OH.
- Faculty bring a wide range of expertise to site training and test bed activities, including engineering and computer sciences, logistics and supply chain management, theater/stage, and human performance.
- WSU's research mission is integrated into NCMR/ C'Ville via a scientific advisory panel and full access to the basic and applied research activities and assets on campus.
- Offers a full range of continuing education credits, and opportunities for accredited undergraduate and graduate level training.
- Access to medical school resources: Anatomy and cadaver laboratories, simulation capabilities, a cross-section of medical basic science research and clinical specialty faculty, a fully integrated multi-hospital/clinic system, and relationships with emergency medical services and tactical emergency medicine personnel.
- Experienced faculty and staff in Disaster Preparedness, Search and Rescue, Mortuary Sciences, Medical Logistics, Tactical Emergency Medicine, and the broad application of medical care in any environment.



Location

- Uniquely positioned within an urban/suburban environment, allowing greater realism.
- Currently 55 acres with ready access to 400 additional acres including woods and quarry.
- Easily accessible with four season climate. Close proximity to I-70/I-75 crossroads, Dayton, Cincinnati and Columbus International airports.
- The hospitality community nearby offers a large selection of hotels, restaurants, daytime and evening activities. Close to Wright State University and Medical School.
- Immediate proximity to Wright-Patterson Air Force Base provides additional services and props. Easy ground and air access for military personnel.
- Close to Wright State University campus.
- Co-located with many technology-oriented defense contractors promotes collaborative opportunities. Calamityville leverages several Dayton-area regional technology initiatives.