

FROM THE UNIVERSITY OF MISSOURI EXTENSION



Associate Vice Chancellor University of Missouri Extension

The University of Missouri is proud to support the Fire and Rescue Training Institute, which provides critical training and technical assistance to the fire service and other first responders statewide. In fulfillment of our mission to extend knowledge from the university to all Missourians, the Institute provided high-tech knowledge and innovative skills to participants throughout the past year.

The Fire and Rescue Training Institute continues to creatively build on its long history of high-quality educational service. This year, we served fire departments in all corners of the state, assisted in emergency recovery, and partnered with insurance companies, governments, and other entities to ensure Missouri has the best trained fire service in the nation.

Congratulations to our faculty and staff for their tireless efforts in delivering this impactful programming. I thank our partners and participants for collaborating with the University of Missouri in helping us to all live in safer communities.

UNIVERSITY OF MISSOURI

₩Extension

Sincerely,

Blu Ale Nagte

Blake Alan Naughton, Ph.D.

Associate Vice Chancellor for Extension and Engagement



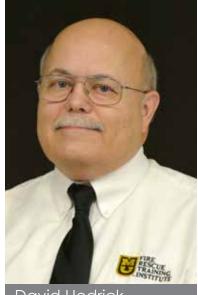
INTRODUCTION

FROM THE DIRECTOR

Fiscal Year 2017 (FY17) marked another milestone for the University of Missouri's Fire and Rescue Training Institute (MU FRTI). The University of Missouri's involvement with and support of fire training began with the first Missouri Central Fire School held on the University's campus. The FY17 Summer Fire School marked the 85th anniversary of the fire training program.

On behalf of the faculty and staff of MU FRTI, I want to express our appreciation to our training partners, host agencies, and you, our students, for your continued support of the Institute and our mission. Enabled by these partnerships and our students' desire to learn and acquire new skills, the Institute provided training to over 11,000 fire and emergency service first responders during FY17. Through 507 classes, the Institute provided training for personnel representing all 114 Missouri counties.

Every day thousands of Missourians are aided by fire and emergency responders who have received training through the University of Missouri Fire and Rescue Training Institute. Our students, in their career or volunteer roles as firefighters and emergency responders, are directly providing life saving measures and conserving property from fire and other disasters. Still, after 85 years playing a prominent role in firefighter training, MU FRTI is proud to continue providing exceptional training and education to our state's emergency responders. Through the knowledge and skills they learn in our courses, they truly are saving lives. That is why we believe that the Institute's motto, "we save lives," is as applicable today as it has always been.



David Hedrick

Director MU Fire and Rescue Training Institute

David E. Hedrick
David E. Hedrick, CPM, CFO, CTO

Director

Fire and Rescue Training Institute University of Missouri Extension

OUR MISSION

The mission of the University of Missouri Fire and Rescue Training Institute is to plan, develop, deliver, and administer state-of-the-art continuing professional education courses which meet the comprehensive training needs of fire and rescue personnel and other emergency managers and responders utilizing the most efficient and effective means possible, thereby enabling them to better protect lives and property within their communities.



HOW FAR WE HAVE COME, AND YET HOW MUCH FARTHER WE HAVE TO GO

By Director David E. Hedrick

This year marks the 85th anniversary of Summer Fire School (SFS), an event that became the impetus for the establishment of the University of Missouri's Firemanship Training Program which would later become the University of Missouri Fire and Rescue Training Institute (MU FRTI). Recognizing this important event causes us to reflect and remember all those who have blazed the path before us and worked so hard to ensure the appropriate training of Missouri's firefighters and emergency response personnel in order to better protect the citizens they serve. It is also a time of celebration in achieving this milestone event and in the realization that MU FRTI has, over the years, achieved many goals and benchmarks. It is also a time to recommit ourselves to the continuing challenges that lay ahead; in particular, the task of training our current and future generations of fire and emergency service personnel so that they will always be prepared, safe, and ready to be our state and nation's emergency first responders in the protection of our citizens.

As I perused through boxes and volumes of material related to the history of summer fire school and the University of Missouri Extension's Fire and Rescue Training Institute, I became aware of how much things have changed in the fire service while still seeming to remain the same. Many of you may recall the old joke about the Fire Service, "200 years of tradition unhindered by progress." Though I don't believe this is true, I attribute the perception to the fact that throughout the fire service's history it has faced, and continues to face, many of the same issues and problems. With this concept in mind, we need to contemplate, "How far we have come, and yet how much farther we have to go."

In 1933, the Fire Service of mid-Missouri came together with the University of Missouri—Columbia campus to conduct the first Missouri Central Fire School which became know as the Summer Fire College and today know as Summer Fire School. The purpose of the school was to provide "training that was needed for



50th Anniversary of Summer Fire School - 1983

firefighters to perform their duties safely and efficiently." Our predecessors saw and understood the need for appropriate training of fire service personnel. Some of the training topics of that first "school" included Using Gas Masks in Smoke and First Aid and Resuscitation. Even at that time they were addressing health and safety issues for firefighters, as well as providing training to enable medical services for citizens. How far we had come! By the 50th anniversary of Fire school in 1983, the topics included Self Contained Breathing Apparatus and Emergency Medical First Responder. How far we thought we had come, yet how much farther we were going to go. Today our firefighters train and operate with advanced SCBA with integrated personal alert safety systems and provide advanced life support in the field treating patients with all the latest techniques and equipment. How will the next leap in technology change our trajectory in meeting the needs of training the fire service?

Summer Fire School has always been a leading educational program in presenting new technology to the fire service. At the 50th anniversary SFS, one of the cutting-edge topics was Computer Utilization for the Fire Service. Little did we know, this foreshadowed the technological advances that would bring about the world-wide web and instant access to information. Computer-aided dispatch, preplan and hazard data is now available not only in command and first arriving apparatus, but is also on personal electronic devices. We have come a long way! Each new generation now learns through handheld devices and electronic programming. This "new" concept in learning has brought about changes at the Institute as we have expanded and launched new blended learning courses for fire officers and instructors along with prerequisite online training modules to prepare students for technical skills sessions. People might say this is cutting-edge, but what will the future bring that will change the technology and the educational methodology of how we accomplish the future training needs?

HISTORY

FOR TWO-DAY FIRE SCHOOL

First in Central Missouri — Tomorrow and Thursday

WILL GIVE PUBLIC SHOW

"Fire Block" and Gas Masks Will Be Demonstrated

Columbia firmen spent most of yesterday and today working to complete preparations for the first Missouri Central Fire School, which is to be held here tomorrow and Thursday. Three hundred visiting size fire chiefs and firemen are size fire chiefs and firemen are

A "amoke-house" has been buil and will be used to demonstrat various types of masks. It is this to of a small room, and has window in one side through which the demonstrations may be observed, A smudge tire will be buil inside the house. The house habeen places on the drill lot to

A "fire-block", consisting of a complete set-up of a business block in miniature, will also be used for discussion and demonstration of fire problems

A special program of demonstrations and rescue methods will be given for the public tomorrow night at 7:30 o'clock. It will be held it the drill lot behind the Fire and Police Building at Seventh and Wai-

School will begin at 8:30 o'clock tomorrow morning with registratior and group assignments. Mayor R. S Pollard will give the welcoming address, and Frof. L. H. Provine, director of the Pire College at the University o' Illinois, will give the first lecture. "Pire School Development in Illinois."

R. H. Sogard, superintendent of buildings at the University, will speak on "Fire Protection and Fire Prevention in State Institutions." William E. Edom will close the morning session with discussion and demonstration of "Electrical Conductivity of Liquids." Luncheon will

Three classes will be held in the atternoon session. The entire class will be divided into three groups, and each group will attend each of three classes at a different timethus keepine all three going simultaneously, and facilitating instruction.

The afterroon classes will be "Venillation and Gas-Marks," bis-trict Ohief Thomas J Hardwick drillmaster on the Kansas City Fire Department instructor; "First Aid and Resuscitation," J W Just fire department engineer, Western Actuarial Bureau, Chicago, instructor; and "Automobile Pumpers," Raymond Schurrmann, Missouri Insurant June Parks, "Raymond Schurrmann, Missouri Insurant Parks," Raymond Schurrmann, Missouri Insurant Parks, "Raymond Schurrmann, Missouri Insurant Parks," Raymond Schurrmann, Missouri Insurant Parks, "Raymond Schurrmann, Missouri Insurant Parks," Raymond Schurrmann, Missouri Insurant Parks, "Raymond Schurrmann, Missouri Insurant Parks," Raymond Schurrmann, Missouri Insurant Parks, "Raymond Schurrmann, Missouri Insurant Parks," Raymond Schurrmann, Missouri Insurant Parks, "Raymond Schurrmann, Missouri Insurant Parks," Raymond Schurrmann, Missouri Insurant Parks, "Raymond Schurrmann, Missouri Insurant Parks," Raymond Schurrmann, Missouri Insurant Parks, "Raymond Schurrmann, Missouri Insurant Parks," Raymond Schurrmann, Missouri Insurant Parks, "Raymond Schurrmann, Missouri Insurant Parks," Raymond Schurrmann, Missouri Insurant Parks, "Raymond Schurrmann, Missouri Insurant Parks," Raymond Schurrmann, Missouri Insurant Parks, "Raymond Schurrmann, Missouri Insurant Parks," Raymond Schurrmann, Missouri Insurant Parks, "Raymond Schurrmann, Missouri Insurant Parks," Raymond Schurrmann, Missouri Insurant Parks, "Raymond Schurrmann, Missouri Insurant Parks," Raymond Schurrmann, Missouri Insurant Parks, "Raymond Schurrmann, Missouri Insurant Parks, "Raymond Schurrmann, Missouri Insurant Parks," Raymond Schurrmann, Missouri Insurant Parks, "Raymond Schurrmann, "Raymond Schurrmann, "Raymon

spection Bureau, instructor.

Although there was a state fir school in S Louis in 1929, this i the first central Missouri fire school ever to be held.

Classes and lectures will continue.

Classes and lectures will contin

First Central Missouri Fire School - 1933

In 1933, the newspaper reported that at the first fire school the firemen had spent considerable time preparing by building a temporary smoke house to adequately train the attending firefighters. Even back then the fire service understood the need and importance of hands-on skills training. Over the years the Institute has worked to expand its capability to provide hands-on training utilizing mobile props capable of providing training throughout the state. Our latest acquisitions provide cutting edge technology to provide fire

fighters the opportunity to practice real world skills in a safe environment. Yet, there are more training opportunities that need to be addressed. The Institute is proud of how far we have come, yet the future needs of the fire service will require us to go much farther to meet those needs.

Because of a firefighter's dedication and willingness to give all, and despite any failures, the citizens know that if they call for help, the local firefighters will be there to respond. When the firefighter arrives, the citizen's expectation is that they are well-trained, equipped, and prepared to handle whatever needs to be done. For 85 years the MU Fire and Rescue Training Institute has been there with each successive generation of the fire service

to provide the training and resources to enable trained and prepared firefighters to competently serve their citizens and community.

The challenge of new technology, new emergency hazards, and ever-changing world events lay before us. To the firefighter, the fire service professional both career and volunteer, the means of preparing to meet these challenges is

through training. Dr. Denis Onieal, U.S. Deputy Fire Administrator and former Superintendent of the National Fire Academy, said, "As fire instructors you are sending firefighters to a future that you will never see. What they, the firefighter, learns today will stay with them and guide them throughout their career." As a training institute for the fire service, we have a responsibility to make sure we are providing the critical knowledge and technical skills that will prepare Missouri's Fire Service to meet that future challenge. How far we have come, yet how much farther we will be going to accomplish the Institute's mission.

COMMITMENT AND VISION

As the University of Missouri Fire and Rescue Training Institute continues to develop and evolve, we will carry on in the finest traditions and standards of fire service training: respecting the past, serving the training needs of the present, and implementing new concepts and programming for the future with the safety of Missouri's fire service personnel and the citizens they serve always in mind.



EDUCATION AND TRAINING

AREAS SERVED Missouri • All 114 Counties United States • 35 States Worldwide • India and Jamaica LivingSiC 37/197 Out of State Enrollments 33 , 2 100 St. Clair \odot Hickory 38 r INDIA Dade կ190 կ **JAMAICA** Number of Students by County



SERVICES DELIVERED

Travelled 200,000 Miles in FY17 Delivering Training and Services



85th Annual Summer Fire School in Jefferson City, Missouri

2017 FIRE SERVICE TRAINING SURVEY REPORT

In 2016, the University of Missouri Fire and Rescue Training Institute Advisory Council identified several strategic initiatives for the Institute to pursue to better meet the education and training

needs of Missouri's Fire Service. One of the top recommended initiatives was the development of a training needs survey to garner data from the fire service throughout the state.

The survey collected key information on current and unaddressed training needs of Missouri's fire service in addition to necessary demographic information to provide analytical results for use in developing statewide training initiatives. Additionally, the survey provided feedback on MU FRTI and its current training programs, along with potential programs that departments wish to see made available through the Institute. Geographically, the responses provided data by county for 98 of Missouri's 114 counties. Combined responses provided data for all nine Missouri Highway emergency response regions in the state.

The willingness of Missouri fire departments to participate and share information on training programs, operational activities, and performance standards has provided valuable insights into training trends in this state. This has given the Institute the opportunity to benchmark the characteristics and needs of Missouri's fire service throughout the state and within the individual state emergency response regions.

Through continued participation in surveys and studies by the University of Missouri Fire and Rescue Training Institute, a better picture of the true training needs of the state's fire service can be assessed and plans to address those needs can be developed.

These researched-based training plans will enable training that will assist each fire entity in the state to better accomplish their missions in serving their citizens and communities with competent and trained fire service personnel, whether they be career or volunteer.

STUDENT COMPOSITION

MU FRTI programming is open to all qualified fire and emergency first responders and emergency managers on an equal opportunity basis. MU FRTI's student composition is similar to the overall composition of the fire and emergency service responders in the state. Demonstrating the everpresent need to learn in the fire service, student demographics indicate that the Institute's students represent a range of experience from less than one year to more than twenty years. In FY17, MU FRTI's training programs had students representing all 114 counties in Missouri.



36th Annual Winter Fire School in Columbia, Missouri





3.3 out of **4** for Fiscal Year 2017

Rating System: 0 to 4.0	FY 17	FY 16	FY 15	FY 14	FY 13
Course	3.2	3.2	3.2	3.1	3.1
Instructor	3.5	3.5	3.4	3.4	3.4
Classroom	3.2	3.2	3.2	3.2	3.1
Outside Activities	3.3	3.3	3.3	3.2	3.2
Visual Materials	3.3	3.3	3.3	3.2	3.1
Printed Materials	3.2	3.2	3.3	3.2	3.1
OVERALL	3.3	3.3	3.3	3.2	3.2

CUSTOMER SATISFACTION

To judge the effectiveness of each course that MU FRTI presents, a course evaluation is completed by each student in the course. The evaluation form provides the opportunity for the student to give feedback by answering questions regarding these six areas: course, visual materials, activities, printed materials, instructor(s), and classroom. A numerical rating scale is used to tabulate responses on a scale of 0 to 4 which corresponds to a letter grade of "F" to "A". MU FRTI's overall customer satisfaction rating increased in a number of areas to an average of 3.3, a B average, in FY17.

ENROLLMENT BY OCCUPATION

Fire S	Service	1%
Lo	aw Enforcement	2%
	State/Federal Government	2%
	EMS	2%
	City/County Government	1%
	Other	2%

ACCESSIBILITY

Programming is open to all qualified fire and emergency first responders and emergency managers on an equal opportunity basis. In FY17, MU FRTI conducted 80% of the training courses at local "host" departments or agencies. With the majority of the state's fire service considered volunteer or part-paid, this local access and flexibility assures training opportunities for all firefighters. MU FRTI is known for "bringing training to the student," which includes, when necessary, the transport of specialized fire training props and equipment to training locations throughout Missouri, as well as to other states. MU FRTI has a fleet of training support and equipment trailers that range from small cargo trailers to semi-tractor trailers. In FY17, MU FRTI personnel, vehicles, and support trailer fleet traveled 200,000 miles to deliver training.



Did you know...

...For every \$1 MU FRTI receives from MU Extension, MU FRTI generated \$5.80 in funding to support training deliveries.

ECONOMICS AND IMPACT

MU FRTI gratefully acknowledges the funding resources provided by the University, Extension, and state and federal government and organizational partners. The on-going assistance and resources provided by our partners will assure the continued success and financial health of the Institute.

MU FRTI self-generates approximately 83% of its operational budget through fees, contracts, and grants. MU FRTI continues to practice good stewardship in keeping administrative costs low, directing resources to instruction, and effectively utilizing subsidy funds to make training as accessible as possible to Missouri's fire and emergency service responders.

MU FRTI is a non-profit Institution and re-invests budget funds in the training of Missouri firefighters. Based on direct and indirect funding and the monetary economic return through procurement of services and resources, the Institute produces a total economic impact of over \$3 million dispersed throughout Missouri by providing training resources.¹

FUNDING SOURCES

56%	Fees, Tuition and Other
17%	MU Support
12%	State Agency Contracts
8%	Federal Funding
5%	MODOT ARFF
2 %	.Regional and Local Contracts



Enabled by the resources provided by MU FRTI, firefighters and emergency responders are better prepared to perform their duties. And the impact of these trained firefighters has made an immeasurable difference in the protection of lives of citizens and communities.

¹ Based on MU Economic Impact Study 2011 multiplier for total economic impact of program expenditures.

REPORT FROM THE ASSOCIATE DIRECTOR



Courses 23

Enrollment 1,237

Instructional Hours 7,780

The Associate Director of the Fire and Rescue Training Institute is responsible for management of daily operations of the Institute along with oversight of special projects and conferences. The position reports to the Institute's Director and provides assistance and support to the Director in the accomplishment of the programmatic objectives of Extension's training and education mission. The Associate Director oversees the Specialist positions and their program areas within the Institute. The Associate Director position also acts as the liaison/coordinator for various electronic communications and data storage resources of the Institute.

DISTANCE LEARNING

In FY17, MU FRTI continued to offer online courses to meet the demands of emergency responders. A new course was added this year in cooperation with the Missouri Department of Mental Health: Autism Spectrum Disorder Training of Public Safety. In addition to this new course, others include: Introduction to Emergency Management for the Fire Service; Principles of Building Construction: Combustible; Principles of Building Construction: Non-Combustible; and Hazardous Materials Incident Response: Awareness (HMIR:A). All of these courses are self-study and are available for enrollment at any time.

The HMIR:A course continues to receive funding support from the Division of Fire Safety and the Fire Safety Education/Advisory Commission to make this online class available at no-cost.

In addition to these self-study classes, we began offering blended learning classes this year. Blended Learning is an education program that combines online digital media with traditional classroom methods. It allows for more flexibility in schedules and the costs associated with the class are reduced. The Institute is investing heavily in the Blended Learning model. In FY18 you will see many more courses being adapted to this format.

MISSOURI EMERGENCY SERVICES INSTRUCTOR CONFERENCE

The MU FRTI Instructor Conference is designed for those individuals preparing and presenting training programs for fire, rescue and EMS personnel, and public

fire education. Instructors and other supervisory personnel reported this conference was valuable in planning for the training needs of their organizations. The Instructor Conference for FY17 was held at Camden on the Lake in Lake Ozarks, MO, in November 2016, and was approved for up to 20 hours continuing education credits by the Missouri Division of Fire Safety. The conference was a great success with over 300 total enrollments for the conference and preconference events. This was a 20% increase in participants compared to the previous fiscal year.

Courses 11
Enrollment 5

579

Instructional Hours 2,92

MISSOURI EMERGENCY SERVICES
INSTRUCTOR
CONFERENCE

NOVSMBR 4-4. 2014 + LAKE OF THE OZARKS. MISSOURI

EMERGENCY MEDICAL TECHNICIAN TRAINING

The University of Missouri Health Care – Emergency Medical Services Education (UMHC EMS) conducts pre-hospital EMS professional education for Basic and Advanced Life Support. This education includes the initial training for Emergency Medical Technician (EMT) or Paramedic, and also the continuing education for recertification. UMHC EMS Education partners with MU FRTI on EMS training courses to make them readily available to the fire service.



Courses 6

Enrollment 44

(Instructional Hours

20,516

ENGAGEMENT

CURRICULUM DEVELOPMENT

The Curriculum Specialist for MU FRTI is responsible for the development and review of curriculum for instructional programs within the Institute as it relates to the nation, state, and local standards. Curriculum is developed in coordination with Institute instructors having subject matter expertise, and partner agencies and organizations.

This fiscal year the Institute launched a new delivery method for a number of high-demand courses using a "blended" learning concept. "Blended" learning allows students to complete instructor-led and monitored coursework through electronic/web based platform from the comforts of their home or fire station. Practical skills or reviews are conducted at shortened workshop locations. This limits the majority of expense and time spent in a classroom to attend lengthy traditional courses. Blended courses that premiered in FY17 delivering personalized, digital student instruction were: Fire Service Instructor II, Fire Officer II, and Technical Rescuer: Core.



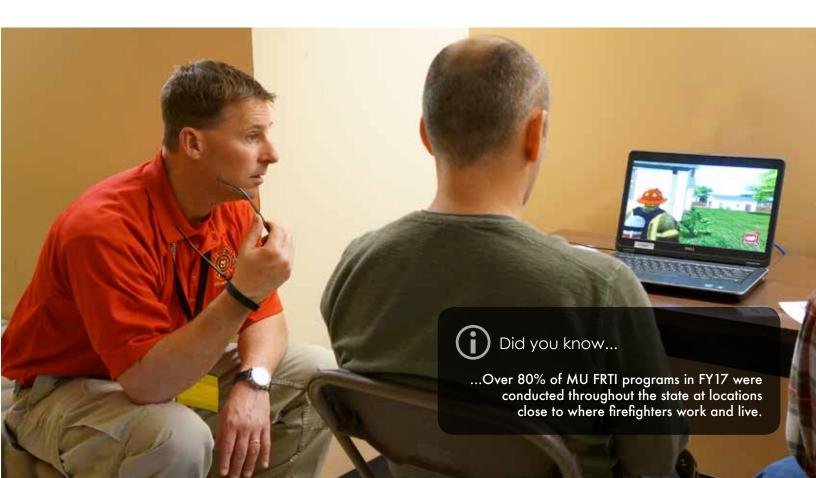
These modified course formats will continue to increase accesses to advanced topics in FY18. Additionally, MU FRTI will be developing Fire Service Instructor I, Fire Officer I, and other advanced fire officer supplemental titles in FY18.



"On behalf of the St. James Fire Protection District, I would like to thank you for providing assistance for two of our firefighters at this year's Winter Fire School. It was the first fire school that Sean or Joe attended and it made a lasting

firefighters at this year's Winter Fire School. It was the first fire school that Sean or Joe attended and it made a lasting impression on them. They are already talking about and planning on attending next year's school. Again, I want to thank you for the support you showed our firefighters and providing them the opportunity to attend the 2017 Winter Fire School."

— Bruce Parton, Fire Chief St. James Fire Protection District



AIRCRAFT RESCUE AND FIRE FIGHTING



The Aircraft Rescue and Fire Fighting (ARFF) Program continues to represent MU FRTI across the nation. The ARFF Program provides specialized fire training for Federal Aviation Administration (FAA) certificated airports in the FAA central region and throughout the nation. The program utilizes a FAA designed Mobile Aircraft Fire Training (MAFT) simulator to provide realistic, effective fire and rescue training on-site at airport locations. The Institute's ARFF Program is recognized by the FAA for meeting initial training and recertification requirements for ARFF personnel.



This program supports commercial service airports which are required to provide initial and annual recurring ARFF training for their airport firefighters.

MU FRTI continues partnerships with other state training entities to provide hands-on "live" fire training for airport recertification in their state. MU FRTI is proud to partner with University of Kansas Fire and Rescue Training Institute (KU FRTI) and Texas Engineering Extension Services (TEEX) for ARFF training.

Courses 90

Enrollment 1,561

Instructional Hours 10,409



185th ARW Fire Emergency Services, Sioux City Columbia Regional Airport Dallas Fire-Rescue Emergency Services Training Institute, College Station MU Fire and Rescue Training Institute Fort Leavenworth Army Post Garden City Fire Department Hall County Airport Authority, Grand Island Nebraska Hartsfield-Jackson Atlanta International Airport, Atlanta Hays Fire Department Hot Springs Fire Department Arkansas Kansas City Aviation Department, Wheeler Downtown Kansas City International Airport Kansas Fire and Rescue Training Institute, Lawrence Kearney Volunteer Fire Department Nebraska Lake Area Technical Institute, Watertown Lambert St. Louis International Airport Liberal Fire Department Lincoln Airport Authority Nebraska Naples Fire Department Florida Nashville International Airport Oakland County International Airport, Waterford Salina Airport Springfield-Branson National Airport, Springfield Vero Beach Municipal Airport Florida Watertown Fire Department South Dakota



EMERGENCY MANAGEMENT PROGRAM

As the effects of natural and man-made disasters become more rapid, far-reaching, and widespread, all levels of governments must grapple with the limitations of its capabilities. To address the issue of building community resilience and providing services for the entire community in disasters, MU Extension has adopted the Federal Emergency Management Agency (FEMA) model of the "Whole Community" approach. MU FRTI exemplifies this concept through the services the Institute delivers by means of the MU FRTI Emergency Management Program. The program includes all aspects of services needed to build a strong emergency management program such as planning, training, compliant exercises, and development of products and services.

Through the MU Extension Community Emergency Management Program (CEMP), Extension specialists across Missouri provide support to local communities in their resiliency and capacity building activities.

FY17 PROJECTS

- Conducted Animal in ER and Basic ER Response for Vet Student course; a collaboration between the University of Missouri College of Veterinary Medicine and our institute - Fall Semester 2016.
- Coordinated two Homeland Security Exercise and Evaluation Program course offerings for SEMA, one for the U.S. Military at Fort Leonard Wood.
- Assisted the Harry S Truman School of Public Affairs with the initial course for the Emergency Management Graduate Certificate program.



Courses 3

Enrollment 155

Instructional Hours

3,720

"10 consecutive years of discrepancy-free FAA (Federal Aviation Administration) inspected performance by KCFD (Kansas City Fire Department) personnel at the Downtown Airport... MU FRTI has helped us remain current. They have been a valued partner."

 Battalion Chief Matt Mauer Kansas City Fire Department



SPECIAL OPERATIONS TRAINING



MU FRTI conducts various technical fire and rescue programming to meet the specialized needs of the fire and emergency services response community. Though these programs are delivered locally, they are scheduled and managed out of the MU FRTI main office. Programs include: Hazardous Materials, LPG Program, Industrial and Business Safety, and Technical Rescue.

HAZARDOUS MATERIALS TRAINING

The Hazardous Materials Program provides training to those responders who may be actively involved in the mitigation of incidents that involve hazardous materials and/or weapons of mass destruction. These programs include courses designed for the awareness level responder up to, and including, technician level responders.

Funding Support Provided By

- Missouri Division of Fire Safety Missouri
 Fire Safety Education/Advisory Commission Chemical Emergency Preparedness Fund (CEPF)
- Missouri State Emergency Management Agency
- Missouri Emergency Response Commission



LIQUEFIED PETROLEUM GAS TRAINING

The Liquefied Petroleum Gas (LPG) program provides the requisite knowledge and skills necessary to first responders so they can safely respond to and mitigate incidents involving the release of LPG. The program utilizes various "live" fire mobile training simulators that provide real world skills training to the participants. The LPG program works in conjunction with the Missouri Propane Education and Research Council (MOPERC) and the Missouri Propane Gas Association which promotes LPG safety and education to Missouri's first responders. In FY17, MOPERC and the Fire Fighters Association of Missouri partnered with the Institute to deliver another Propane First Responders Conference at the State Fair Grounds in Sedalia, MO.

Funding/Program Support Provided By

- Missouri Propane Education and Research Council
- Missouri Propane Gas Association
- Missouri Division of Fire Safety Missouri Fire Safety Education/Advisory Commission -Chemical Emergency Preparedness Fund
- Missouri Emergency Response Commission





INDUSTRIAL AND BUSINESS SAFETY

The Industrial and Business Safety Program provides training to industrial fire brigade members as well as emergency response teams. The courses are intended to provide these responders with the tools to handle incipient fire emergencies to structural fire response, confined space and high angle rescue, and hazardous materials incidents. These programs

are tailored to meet the needs of the client by incorporating industry emergency response plans and operational procedures in the development of the individualized training programs.





TECHNICAL RESCUE TRAINING

The Technical Rescue Program provides the requisite knowledge and skills necessary to fire and emergency responders to ensure that they safely and efficiently respond to and mitigate incidents requiring technical expertise. To meet the new Division of Fire Safety Technical Rescuer Certification we are now offering Technical Rescue: Core, Rope I and Rope II; as well as Confined Space Rescue, Trench Rescue, Structural Collapse Rescue, Swift Water Rescue, and Rescue Boat Operations.

Agencies Providing Contracts and Grants in FY17

- Missouri Division of Fire Safety -Missouri Fire Safety Education/Advisory Commission
- St. Louis Area Regional Response System
- Region D Regional Homeland Security Oversight Committee
- Missouri Highway Safety Commission
- Mid-America Regional Council
- State Farm Insurance





GRAIN ENGULFMENT RESCUE TRAINING

Missouri, a part of the U.S. grain belt, has a high percentage of agricultural activity associated with grain production. The activities around and within the grain bins have the potential for entrapment or engulfment that can result in serious injury or death to the worker as well as the first responder to an incident. To meet this specialized training need, MU FRTI conducts a grain entrapment rescue program utilizing a mobile simulator unit that provides students with the opportunity to apply skills acquired in a classroom in realistic hands-on training scenarios utilizing a grain hopper, grain bin, and a cut panel station.

MU FRTI wishes to recognize MFA Agri-Services, Brock Grain Systems, and the MFA Incorporated Charitable Foundation for their support of this important initiative.



MILITARY PROGRAM

The Military Program was established to more effectively coordinate the respective activities of University of Missouri Fire and Rescue Training Institute (MU FRTI) with military units and agencies at the local, state and national level. The Military Programs Coordinator serves as the principal point of contact and coordination to liaise with the Department of Defense (DoD) agencies in an effort to assist MU FRTI in coordinating, planning, and conducting activities with the military community. To achieve the best use of MU FRTI's assets and resources, the program reinforces community and private relationships that enhance the various missions of each agency or unit.

PROJECTS AND SERVICES

- Missouri National Guard
- Missouri Department of Natural Resources



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FIELD EXTENSION PROGRAM



The Field Extension Program housed within the Institute is responsible for coordinating all of the operational activities of fire and emergency response training courses, delivered using a field extension format across the state. This program oversees and allocates state funding sources for direct field training deliveries and the scheduling of regional conferences. MU FRTI appreciates the successful partnership with all our state, federal, and corporate partners, in providing funding subsidy for the delivery of no-cost statewide training for Missouri's fire and emergency service responders.

STATE FUNDED PROGRAMING

State Fire Training Funds (General Revenue, Fire Education, and Hazardous Materials) provided to MU FRTI by the Division of Fire Safety (DFS) and the

3,307

Instructional Hours 37,340

Courses

Enrollment

Missouri Fire Safety Education/Advisory Commission enabled a total of 80 subsidized classes for a total of 2,358 student enrollments, which equated to 24,992 student instructional hours.

Missouri Fire Education and General Revenue Training Funding

Courses Enrollment 1,305 Instructional Hours 16,116

Hazardous Materials Fund

Courses Enrollment 1,053 Instructional Hours 8,876

MISSOURI DEPARTMENT OF TRANSPORTATION - HIGHWAY SAFETY

Missouri Department of Transportation (MODOT) Highway Safety Grant provided funding that was contracted with MU FRTI to conduct highway safety emergency response related courses in FY17. MU FRTI is pleased to partner with MODOT on highway safety initiatives directed to fire and emergency service responders. Data to the right reflects courses conducted within the MU FRTI fiscal year.

Courses Enrollment Instructional Hours

NATIONAL FIRE ACADEMY AND DIVISION OF FIRE SAFETY

Working in conjunction with the Missouri Division of Fire Safety (DFS) as the NFA state training partner, MU FRTI conducted nine NFA courses through state funding.



STATE FARM INSURANCE GIFT 2016-2017



In 2016, the Institute was pleased to continue its partnership with State Farm to enable specific fire service training initiatives. State Farm Insurance provided a gift to Extension/ FRTI to support training for emergency first responders that handle vehicle accidents. State Farm provided another gift for the 2017 calendar year and will include the support of additional training in the first half of FY18.

Courses	18	
Enrollmen	399	
Instruction	nal Hours	4,648

ENGAGEMEI

AGENCIES SUBSIDIZING TRAINING

- Missouri Division of Fire Safety
- Missouri Fire Safety Education/Advisory Commission
- Missouri Emergency Response Commission
- Missouri Propane Education and Research Council
- Missouri Highway Safety Commission
- State Farm Insurance
- MFA Agri-Services
- MFA Inc. Charitable Foundation



REGIONAL TRAINING COORDINATOR SYSTEM

To assist in the management and coordination of field extension training across the state of Missouri, MU FRTI utilizes a Regional Training Coordinator System based on nine regions geographically corresponding

to Missouri State Highway Patrol regions. Regional Training Coordinators in each region provide a ready resource to enable fire departments at the local level to access and schedule needed training. Instruction is provided through MU FRTI's adjunct instructional cadre located throughout each region. Regional Training Coordinators can be

contacted directly or through requests made to MU FRTI's main office.

Retiring Regional Coordinators



Mike Booth Region A Coordinator Regional Training Coordinator Since 1999



Robert Creed Region B Coordinator Regional Training Coordinator Since 2015

Region A



Robert Little



Roger Meyers



Joe Schilling



Mike Cherry



Jeff Broombaugh

Region D





Marty Schuessler



Clint Hays



Roy D Sims



Angie Jones



Bruce Parton

ENGAGEMENT

WINTER AND SUMMER FIRE SCHOOL CONFERENCES



MU FRTI continues to provide state fire schools to meet the training needs of Missouri's fire and emergency responders. There are two annual fire schools offered each year that attract emergency responders from across Missouri, and throughout the central United States. Scholarship opportunities are available each year for WFS and SFS through the Phil Sayer Memorial Scholarship Fund. Scholarship funding support is provided by the Missouri Division of Fire Safety and the Missouri Fire Safety Education/Advisory Commission.

WEBCAST FOR DISTANCE LEARNING

MU FRTI continues to conduct selected courses via webcast that included an on-site student audience, in addition to the distance learners across the Midwest during Winter Fire School. The courses were made available to registered locations by means of web access, and provided a great learning opportunity for those that were unable to physically attend the WFS in Columbia, Missouri.



Courses

Enrollment

Instructional Hours

WINTER FIRE SCHOOL

Winter Fire School is held in Columbia each February. The event offers a diverse variety of classes to choose from in a weekend format. In addition to Missouri students, there were students from four other states represented in FY17. The Midwest's largest Equipment Exposition associates with WFS and provides an excellent opportunity for learning and networking. The success of WFS is due not only to the experienced instructors, an effective Command Team, a dedicated staff, our fire service partners and supporters, but especially to the fire departments and individual student participants.



SUMMER FIRE SCHOOL

Summer Fire School was held in Jefferson City, June 7–11, 2017. This annual event offers both classroomoriented and hands-on courses ranging from seminars to week-long programs. In addition to Missouri students, there were students from four other states represented.



Courses

2,537 Enrollment

Instructional Hours 10,688 Fire Schools also generate a positive economic impact on Columbia and Jefferson City where they are held. It has been estimated that the events each bring in over half a million dollars to the local community through direct and indirect expenditures by the participants and guest faculty.

Courses Enrollment Instructional Hours



"The University of Missouri Fire and Rescue Training Institute's Winter Fire School and Expo is the best event we attend...I cannot say loudly or often enough how great it is to attend your Winter Fire School due to the way you manage and operate the event."

Robert Langguth, Owner Eagle Engraving, Inc.



ADMINISTRATION

he daily operations and support functions of MU FRTI are provided by a dedicated administrative and support staff. Course paperwork, data entry, transcripts, instructor travel, curriculum and promotional material development, course supplies and equipment logistics are all a necessary part of the course-delivery process. MU FRTI is proud of the dedicated staff that works behind the scenes to make sure the students and instructors have a successful educational experience.



...With the exception of holidays, the Institute averages 4.1 classes in progress somewhere in Missouri every day of the year.



Fiscal Manager



Fiscal Office Assistant



Office Support Assistant



Instructional Support Associate



Multimedia Specialist



ADVISORY COUNCIL

niversity of Missouri Extension approved the establishment of an MU FRTI Advisory Council in FY17. The purpose of the council is to provide input and guidance on strategic planning and training initiatives for the Institute. The council is composed of members selected to represent a cross section of the state's fire service. In FY17 the council worked with MU FRTI administration to evaluate state fire training needs and develop plans to address those needs.

FIRE SERVICE LEADERSHIP ENHANCEMENT PROGRAM



In FY17, the 15th annual *Fire Service Leadership Enhancement Program* provided executive leadership training for current and future fire chiefs. This program is a joint activity conducted by the Harry S. Truman School of Public Affairs. Twenty-nine executive fire officers representing twenty fire agencies completed the program this year.

COMPANY OFFICER CERTIFICATE PROGRAM — FY18 GRADUATES

eventeen individuals completed the Company Officer Sertificate Program this year. This program requires 322 contact hours of instruction in different areas pertinent to a company officer. This certificate program exceeds the requirements of Fire Officer I and II according to NFPA 1021, Standard for Fire Officer Professional Qualifications. The program has had a total of 256 student certificates issued since the program's inception. Currently the program has 62 active participants. The FY17 graduates of the program were:

JOHN BARTON BOBBY CHRISCO TYLER MCBROOM **ANTHONY SCHREMPF** JOSEPH SEAMAN **ERIC STANDLEY WADE STERLING**

High Ridge Fire Protection District Antonia Fire Protection District Rock Community Fire Protection District Fenton Fire Protection District Lebanon Fire Department MICHAEL SHAFFERKOETTER Rock Community Fire Protection District High Ridge Fire Protection District Neosho Fire Department

ADJUNCT INSTRUCTOR CADRE

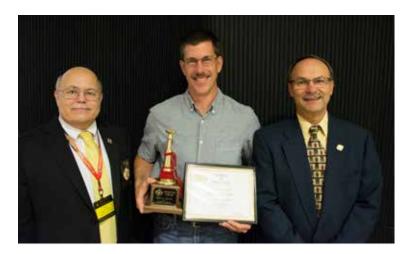
ver 130 of the top professionals in the nation are members of the MU FRTI Adjunct Faculty/Instructional Cadre. Most are active-duty firefighters and officers, and their expertise and practical hands-on experience, coupled with advanced instructional training, enable them to provide the very best in fire service instruction. The geographic dispersion of the Institute's Instructional Cadre across the state, along with their broad range of subject matter expertise, allows the Institute to utilize local instructors, working in conjunction with scheduling requirements of the host department, to make training courses as accessible as possible. MU FRTI gratefully acknowledges the important contribution that our Instructional Cadre makes to the successful accomplishment of the Institute's mission. Through the classes they teach, MU FRTI Instructors enable Missouri firefighters to do their work better and more safely by providing the best and most relevant training and education.



HIGHLIGHTS

FIRE SERVICE INSTRUCTOR OF THE YEAR

MU FRTI presented the *Fire Service Instructor of the Year* award at the annual Instructor's Conference on November 5, 2016. The recipient of the MU FRTI Instructor of the Year award was Robert Shramek, Jr., Assistant Chief and Training Officer with Lincoln County Fire Protection District 1 in Troy, MO. Instructor Shramek's teaching exemplifies excellence and illustrates his passion for providing the very best in fire service instruction. The Institute is proud of his dedicated service as a member of the MU FRTI Instructional Cadre. Shramek has been an adjunct instructor with the MU FRTI program since 2012.



FFAM VOLUNTEER FIREFIGHTER RECRUITMENT AND RETENTION

he Fire Fighters Association of Missouri (FFAM) is a recipient of a multi-year federal Fire Prevention and Safety Grant to provide Firefighter Recruitment and Retention training for volunteer fire departments in Missouri. The FFAM partnered with MU FRTI to assist in coordinating and delivering this training that provides volunteer fire departments with techniques that assist them in meeting their volunteer staffing needs.



Strategies of Leadership: Recruiting Emergency Service Volunteers

Courses Enrollment Instructional Hours

Strategies of Leadership: Retaining Emergency Service Volunteers





AUTISM SPECTRUM DISORDER TRAINING FOR PUBLIC SAFETY

Autism Spectrum Disorder (ASD), the fastest growing developmental discounting an emergency, public safety personnel who are first to respond to the scene may encounter the interest of the scene may encounter the scene may encounte utism Spectrum Disorder (ASD), the fastest growing developmental disability in America. In individuals with ASD. To meet these individuals' unique needs, increasing their safety, and minimizing trauma, first responders will benefit from knowing how to recognize their characteristics and learn ways to effectively interact with and respond to them.

Through the generous support of the Missouri Department of Mental Health, the Office of Autism Services, a partnership was established with nationally known experts, and the University of Missouri

Extension Fire and Rescue Training Institute to implement an Autism Spectrum Disorder Training for Public Safety program. This is a multi-year project that incorporates a free web-based class that meets the continuing education requirements for Missouri firefighters, peace officers, and emergency medical services (EMS) personnel.

Courses Enrollment 376 Instructional Hours

TOP FIVE PARTICIPATING FIRE DEPARTMENTS







COLUMBIA FIRE DEPARTMENT



SPRINGFIELD FIRE DEPARTMENT



LINCOLN COUNTY FIRE PROTECTION DISTRICT



BOONE COUNTY FIRE PROTECTION DISTRICT

PARTNERSHIPS, DONORS, AND SUPPORTERS

MU FRTI's many strategic partnerships allow the Institute to share knowledge and provide training resources throughout Missouri and beyond. We wish to recognize and thank our training partners who have consistently supported the training and education initiatives of the Institute.

- Division of Fire Safety/Fire Marshal's Office (DFS)
- Missouri Fire Safety Education/Advisory Commission
- State Emergency Management Agency (SEMA)
- Missouri Department of Transportation (MODOT)
 - Highway Safety
 - Aeronautics
- Fire Fighters Association of Missouri (FFAM)
- Missouri Association of Fire Chiefs (MAFC)
- Missouri Association of Fire Protection Districts (MAFPD)
- Missouri Propane Education and Research Council (MOPERC)
- Missouri Emergency Response Commission (MERC)
- Missouri Department of Mental Health, Office of Autism Services

- State Farm Insurance
- University of Missouri Extension
- Department of Natural Resources (DNR)
- U.S. Department of Homeland Security/ Federal Emergency Management Agency (DHS/FEMA) Grants Program
- Missouri Fire Alliance
- MFA Incorporated Agri Services
- MFA Incorporated Charitable Foundation
- Brock Grain Systems
- Land O' Lakes Foundation
- CoBank

PROGRAMMING ACCREDITATION / ACCEPTANCE

- American Council on Education (ACE)
- Division of Fire Safety (DFS)
- State Emergency Management Agency (SEMA)
- Missouri Emergency Response Commission (MERC)
- Missouri Bureau of Emergency Medical Services (BEMS)
- Missouri Propane Education and Research Council (MOPERC)
- Peace Officer Standards and Training (POST)
- · Columbia College
- Office of Domestic Preparedness/ Department of Homeland Security

SPECIAL THANKS

The University of Missouri Fire and Rescue Training Institute wishes to extend sincere gratitude to the University of Missouri, MU Extension, governmental department/agencies, fire and emergency service personnel, departments, associations, organizations, and elected officials, as well as businesses and industries throughout the state for their continued support.



Did you know...

...MU FRTI's website provided informational access for over 25,000 users and experienced over 44,000 user sessions in FY17.





HOSTS AND LOCAL PARTNERS

MU FRTI delivers the majority of our programming at the local level to make training accessible to where firefighters live and work. To do this, the Institute depends on the support and cooperation of fire departments and affiliated agencies in

hosting these locally delivered training courses. In sincere appreciation for their support in hosting training programs with MU FRTI in FY17, we wish to recognize the following entities:

Alton Fire Department

Antonia Fire Protection District

Bayer Crop Science

Belle Volunteer Fire Department

Belton Emergency Services

Bethany Fire Department

Boone County Fire Protection District

Branson Airport

Branson Fire and Rescue

Brookfield Fire Department

Cape County Firefighters Association

Caruthersville Fire Department Cass County Career Center

Center for Education and Development

Central Crossing Fire Protection District

Central DeKalb County Fire District

Central Taney County Fire District

Centralia Fire Department

Chillicothe Fire Department

City of Naples (FL) Airport Authority

Clarkton Volunteer Fire Department

Clearwater Fire Protection District

Cole County Chiefs Association

Columbia Fire Department

Columbia Regional Airport

Cuba Fire Department

Dallas (TX) Fire-Rescue

Dent County Fire Protection District

Diamond Area Fire Protection District

Dolan-West Dolan Fire Protection District

Doolittle Rural Fire Department

East-West Gateway Council of Governments

Eastern Douglas County Volunteer Fire Department

Eastern Iowa Airport

Edgar Springs Rural Fire Department

Eldon Fire Department

Eleven Point Fire Department

Emergency Services Training Institute Texas Engineering Extension Service

Fenton Fire Protection District

Ferguson City Fire Department

Fire and Rescue Training Institute

Firefighters Association of Missouri

Fishing River Fire Protection District

Fruitland Area Fire Protection District

Fulton Fire Department

Gladstone Department of Public Safety

Glasgow Fire Department

Goodman Fire Department

Gower Fire Protection District

Hall County Airport Authority

Hartsfield-Jackson Atlanta International Airport

Hayti Fire Department

Hickory County Fire and Rescue

Hickory County LEPC

Higginsville Rural Fire Department

High Ridge Fire Protection District

Hillyard Technical Center

Hot Springs Fire Department

Houston Fire Department

Iconium Fire Protection District

Iowa Air National Guard, 185th Air Refueling Wing

Jamestown Rural Fire Protection District

Jefferson City Fire Department

Jefferson County Fire and Rescue Training

Academy

Kansas City Aviation Department

Kansas Fire and Rescue Training Institute

Kearney (NE) Volunteer Fire Department

Kearney Fire and Rescue Protection District

Kennett Fire Department

Lafayette Firefighter's Association

LaGrange Fire Department

Lake Area Technical Institute

Lake Ozark Fire Protection District

Lamar Fire Department

Lambert St. Louis International Airport

Lebanon Rural Fire Protection District Leopold Volunteer Fire Department

Lincoln Airport Authority

Lincoln Community Fire District

Lincoln County Fire Protection District 1

Linn Fire Protection District

Logan-Rogersville Fire Protection District

Macon Fire Department

Malden Fire Department

MARC Training and Exercise

Marshfield Fire Department

Maryville Department of Public Safety

Miller County LEPC

Miner Volunteer Fire Department

Mississippi County Fire and Rescue Squad

Missouri Ambulance Association

Missouri Association of Fire Districts

Missouri Department of Agriculture

Missouri Department of Natural Resources

Missouri Propane Education and Research Council

Moberly Fire Department

Moody Volunteer Fire Department

Myrtle Fire Department

Nashville International Airport

North Bollinger County Fire Protection District

Northwest Arkansas Regional Airport

Oakland County International Airport

Osage Beach Fire Protection District

Osborn Fire Department

Peace Valley-White Church Fire Protection District

Pineville Fire Department

Randolph County Ambulance District

Raytown Fire Protection District

Region D RHSOC

Russellville-Lohman Fire Protection District

Salisbury City and Rural Fire Department

Seymour Fire Department

Southeastern Randolph Fire Protection District Southern Fire Protection District of Holt County

Southern Platte Fire Protection District

Sparta Fire Protection District

Sprinafield Fire Department

Springfield-Branson National Airport

St. James Fire Department

St. Louis County Fire Academy St. Louis Downtown Airport

State Emergency Management Agency

Steelville Fire Protection District

Sugar Creek Fire Department

Theodosia Fire Department

Tri-County Training Consortium

Urbana Rural Fire Department

Vero Beach Municipal Airport

Veterinary Medical - University of Missouri

Vienna Volunteer Fire Department

Wardell Volunteer Fire Department

Warrensburg Fire Department

Washington University Waynesville Rural Fire Protection District

Webster County LEPC West Carter County Ambulance District

West County EMS and Fire Protection District

West Nodaway Fire Protection District Western Taney County Fire Protection District

Westphalia Community Fire Protection District

Westran Fire Protection District

Willard Fire Protection District

Winfield-Foley Fire Protection District Wright City Fire Protection District

The MU FRTI 2017 Annual Report was developed in-house and produced using self-generated revenue.

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FOR MORE INFORMATION

Education and training programs available through the University of Missouri Fire and Rescue Training Institute are published online at: MUFRTI.org

