



MU | FRTI

University of Missouri-Extension
Fire and Rescue Training Institute





Gary Wilson,
Director



Map shows locations outside of Missouri where MU FRTI specialists traveled in FY05.

ALWAYS
ON THE MOVE
MU FRTI:

From the Director

On behalf of our dedicated faculty and staff, I am pleased to present to you the 2005 Annual Report of the Fire and Rescue Training Institute at the University of Missouri-Columbia. As you read this year's report, please note the diversity of programming offered by the Institute and accomplishments of the various program areas.

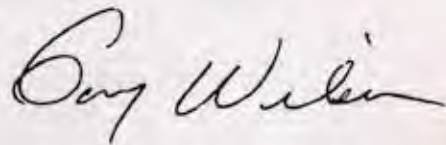
The Institute's most important resource continues to be its people. They include our faculty, staff, regional training coordinators, and adjunct instructors. The accomplishments you will read about in this report can be attributed to them.

Our externally reviewed and evaluated courses continue to be a hallmark of the Institute. This year, thirty-four of our courses received college credit recommendation from the American Council on Education (ACE). We also submitted to the Office of Domestic Preparedness several of our technical rescue and ICS courses, as well as our *Hazardous Materials Incident Response: Technician* course. In all, over ten courses were either developed or revised this year.

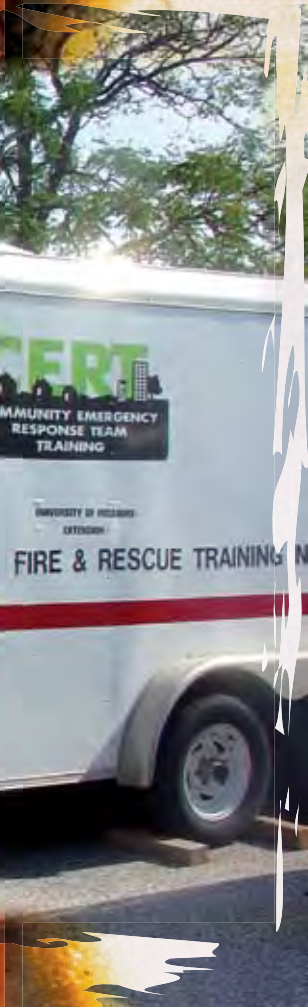
Interest in our courses and programs is on the rise. In 2005, we saw a trend for more specialized rescue courses and for NIMS training. We also had sizeable increases in course deliveries in our rescue firefighting, hazardous materials, and field programs. Additionally, more fire departments contacted our Exercise and Evaluation Program for assistance with exercising their response plans. As departments struggle with meeting NIMS, we expect this need to increase.

We're expanding our services to meet these and other needs. This year, our Emergency Management Program developed the Disaster Resources CD. It is the most comprehensive resource of its kind in the United States. We also obtained and modified the FEMA Safe House, a life-size construction designed to educate the public on how to build a safe room in their homes. We were pleased to showcase this Safe House in many cities and counties across Missouri.

As reflected in our course and program enrollment numbers this year, support of the Institute by Missouri's fire service is strong. We appreciate your confidence in our ability to deliver quality, professional continuing education programs. While the Institute's most important resource is its people, you, our customers, are our most important priority. We will continue to work hard for your confidence in the coming year.



Gary Wilson
Director





Mark Lee,
Specialist

During the last three years, airports have saved over \$1 million in training by using the MAFT.



Locations where the MAFT has been conducted.

PROGRAMS

Aircraft Rescue Firefighting

This was the third year MU FRTI conducted training for certificated airports in the FAA north central region. The Mobile Aircraft Firefighting Trainer (MAFT) was also at airports in Nashville, TN, and Peach Springs, AZ.

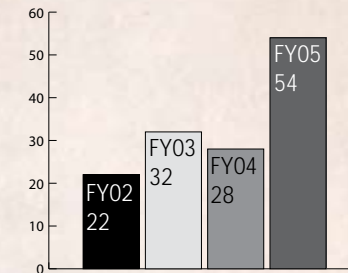
In addition, the aircraft program contracted with the Missouri Department of Transportation to provide our 12-hour program, *Aircraft Rescue Fire Fighting Techniques for Structural Firefighters*. This was in response to the series of small plane crashes that occurred in local fire department response areas.

Other accomplishments during FY05

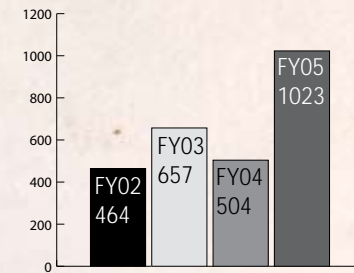
- Conducted the first MU FRTI 40-hour Aircraft Rescue Fire Fighting course for the Hualapai Indian Reservation in Peach Springs, AZ
- Revised and conducted new classes for the 2005 Winter Fire School
- Went to two new locations with the MAFT: Lincoln, NE, and Peach Springs, AZ
- Increased deliveries by 93% from FY04

Customers in FY05

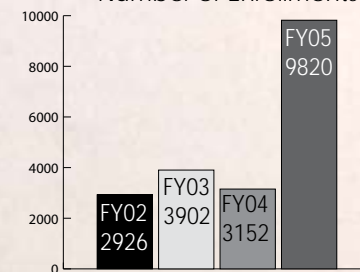
- Columbia Regional Airport
- Grand Canyon Resort Corporation, AZ
- Kansas City Downtown Airport
- Kansas City International
- Kansas Fire and Rescue Training Institute
- Lambert International Airport
- Lincoln Airport Authority, NE
- Missouri Department of Transportation
- Nashville International Airport, TN
- Salina Airport Authority, KS
- Springfield-Branson Regional Airport



Number of Courses



Number of Enrollments



Number of Hours



Ron Dunkle,
Specialist

Safety is priority one, and we customize training to maximize the safety responsibilities in industry.

Business and Industrial Safety Program

The Business and Industrial Safety program underwent a lot of changes this year. Our new full-time specialist, Ron Dunkle, was hired this past spring. Under his leadership, the program began a reorganization of its programs and contacts. The program will continue to offer fire brigade, HazWoper, and rescue programs, but will expand by offering industry safety programs and safety certificate programs in FY06.

Other accomplishments during FY05

- Hired a new full-time specialist
- Revamped training programs
- Expanded training programs for the private sector
- Developed a marketing handout

Courses..... 36
Enrollments 362
Instructional Hours..... 3,728

Customers in FY05

- Internet
- Johnson Controls
- MEMC Electronics Materials, Inc.
- Merial
- Noranda Aluminum, Inc.
- Nordenia USA





Eric Evans,
Specialist



Providing hands-on training to prepare communities with the knowledge to safely react when disaster strikes

PROGRAMS

Emergency Management Program

The Emergency Management program still continues to be a viable cooperative program of both MU FRTI and Community Development within Cooperative Extension. While the amount of in-state CERT programs declined over the last year, requests for train-the-trainer programs in other states remained constant. The sale of CERT materials through the resource center was strong, as well. The Emergency Management program was recognized by SEMA for its assistance with the disasters caused by the tornadoes that struck northwest Missouri this past year. The program also continued to be an active participant in the Extension Disaster and Education Network by taking a lead role in the development of a Plant Biosecurity course.

Other accomplishments during FY05

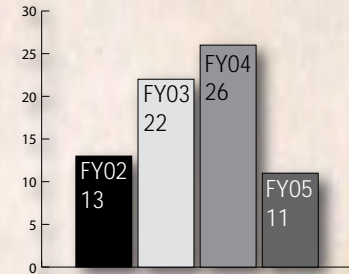
- Rewrote the *Introduction to Emergency Management for Fire Service* course and received ACE credit recommendations
- Rewrote CERT for Missouri
- Acquired FEMA's safe room, made enhancements, and displayed it in cities and counties across Missouri
- Developed a Disaster Resources CD

Customers in FY05

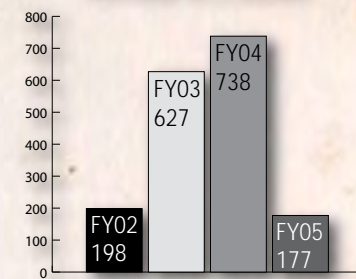
- Clay County Emergency Management
- Platte County Sheriff's Department
- Columbia Fire Department
- Jefferson County Fire Chiefs

FEMA Safe House

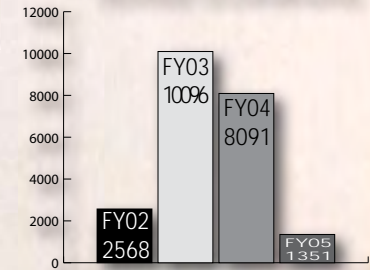
After some enhancements made by MU FRTI, the FEMA Safe House was showcased in many cities and counties throughout Missouri. The exhibit is an actual safe room built to scientific standards. It is mounted on a trailer that can be hauled to local fairs, conferences, or other gatherings to illustrate the proper construction of a safe room in homes. Individuals touring the display see the construction of this safe room and receive literature on how to build a safe room in their homes.



Number of Courses



Number of Enrollments



Number of Hours



Providing state-of-the-art training in
advanced levels of haz mat response

Robb Pilkington,
Specialist

PROGRAMS

Hazardous Materials and Counter-Terrorism Program

The Hazardous Materials and Counter-Terrorism program continued to provide training for first responders who may be asked to respond to intentional or unintentional releases of hazardous chemicals. The continued recognition of MU FRTI haz mat program was apparent again this year. Courses were taught at the U.S. Army Chemical School, CBIFF, and at National Guard units around the country.

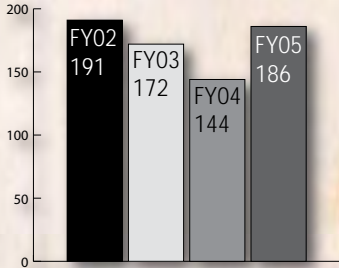
Other accomplishments during FY05

- Conducted a terrorism table top exercise for MU Police Department
- Completed online programs for awareness and operation levels
- Rewrote the *Hazardous Materials Incident Response: Technician* and received ACE credit recommendations
- Increased programs by 29%

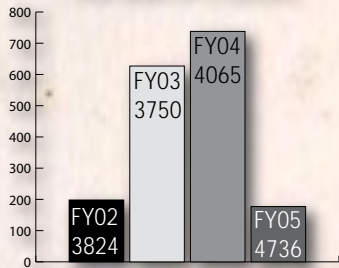
Customers in FY05

(other than Missouri fire departments)

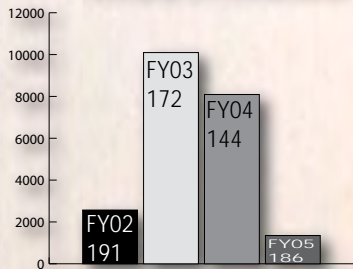
- 3rd Chemical Brigade
- Akima-Intra-Data LLC
- Buchanan County LEPC
- Davis Defense Group
- Mid-America Regional Council
- Missouri National Guard
- NWSC-CBIRF
- Shelby County LEPC
- U.S. Army Chemical School-Incident Response



Number of Courses



Number of Enrollments



Number of Hours



Conne Burnham,
Specialist

Exercises are a critical part of a better prepared America. MU EEP strives to help communities, businesses, and volunteer organizations assess their capabilities in disaster prevention, preparedness, response, and recovery activities in a risk-free environment.

MU Exercise and Evaluation Program (MU EEP)

In its first full year of operation, MU EEP gained momentum. An increase in the number of contacts and exercises was noticed in both small and large communities throughout Missouri. Specific attention given by the MU EEP this year was with state agencies that will contract with MU FRTI next fiscal year to provide exercises in ten different communities in Missouri. In addition, the MU EEP was one of only three programs to be accepted by the Mid-America Regional Council as an approved provider of exercise and evaluation programs. MU EEP Specialist, Conne Burnham, also received her Master Exercise Practitioner certificate from FEMA, making her one of the first individuals in the country to receive this certification.

Other accomplishments during FY05

- Developed an exercise for the NIMS: Advanced ICS course
- Evaluated an exercise for the Missouri State Public Health Lab
- Assisted Columbia/Boone County with its Integrated Emergency Management course held at FEMA's National Emergency Training Center
- Developed a training course for the Missouri Department of Agriculture

Exercises 8
Participants.....343
Instructional Hours..... 1,332

Customers in FY05

- Clay County Emergency Management
- Lafayette County Health Department
- Peabody Energy
- Clinton County Health Department
- St. Joseph/Buchanan County Health Department
- Missouri Department of Agriculture
- Columbia/Boone County Emergency Management





Kevin Zumwalt,
Specialist

In cooperation with the Missouri Division of Fire Safety, the Institute will have programs to address the various levels of NFPA 1006.

PROGRAMS

Municipal Fire Programs and Conferences

With the opportunity to go a complete year without withholdings in firefighter training funds, the municipal program flourished this year. Of particular interest this year was an increase in requests for technical rescue courses. Vehicle Rescue Technician was one of the most requested courses this year.

Continued success with the Big Rivers Forest Fire Management Compact for the Midwest Wildfire Training Academy along with the Winter and Summer Fire Schools and the Train-the-Trainer Weekend, Instructors Conference and Missouri Homeland Security Conference realized an increase in enrollment of 8% from FY04 for conferences.

Other accomplishments during FY05

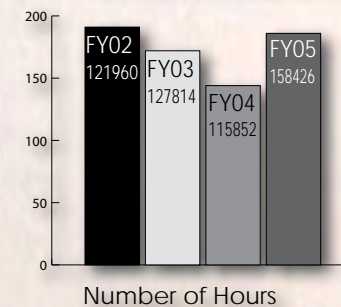
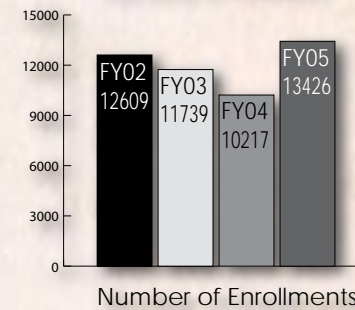
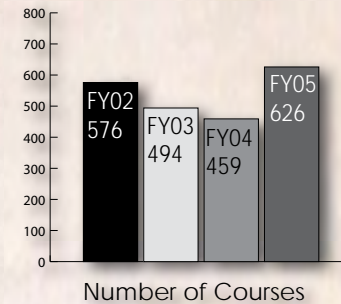
- Revised of technical rescue programs, including trench rescue, confined space rescue, structural collapse rescue, and rope rescue
- Revised the Fire Instructor I and II and Fire Officer I and II courses
- Organized the Third Annual Fire Service Leadership Enhancement Program, in cooperation with the Harry S. Truman School of Public Policy at MU
- Hosted the National Fire Academy Regional Delivery of *Chemistry for Emergency Response* in Kansas City
- Provided twenty nine train-the-trainer programs to 547 state-certified instructors
- Increased course deliveries by 36%

Agencies providing contracts and grants in FY05

- Missouri Division of Fire Safety
- Missouri State Emergency Management Agency
- Missouri Propane Education and Research Council
- Missouri Highway Safety Commission
- U.S. Fire Administration's National Fire Academy



2005 Fire Service Leadership Enhancement class



MISSION

MU Extension's Fire and Rescue Training Institute enables firefighters and allied emergency services personnel to better protect people and property within their communities by *planning, directing and, administering state-of-the-art continuing professional education courses* in structural, wildland, and aircraft firefighting, emergency medical care, technical rescue, industrial safety, environmental emergency mitigation, instructor and company officer development, counter-terrorism and emergency management planning, and exercise evaluation statewide *using the most efficient and effective means possible.*



Data

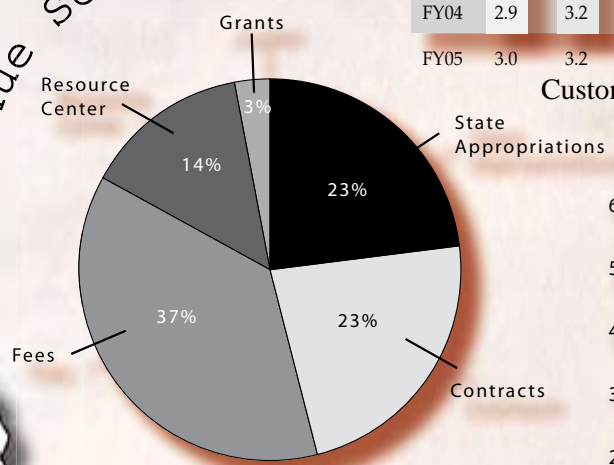
FY05 Program Data

FY05 students from all 114 Missouri counties and from 30 states enrolled in MU FRTI courses. The Institute also delivered training programs in eighty-five Missouri counties. An average of seventeen classes started each week in FY05.



Number of students by counties

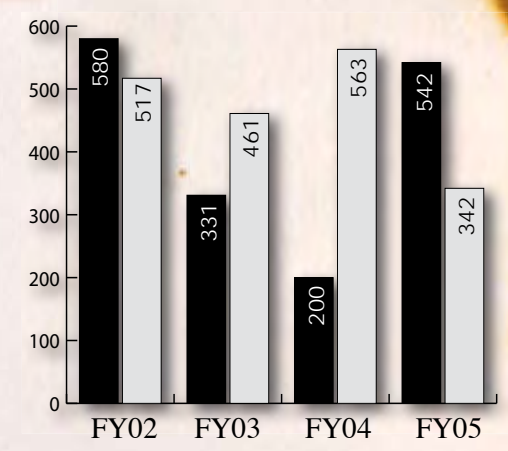
Revenue Sources



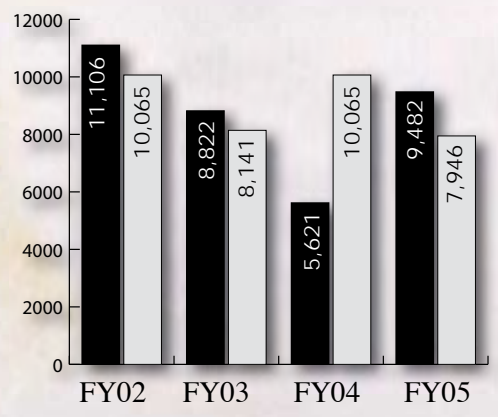
Total Institute budget: \$1.8 million

	Course	Instructor	Classroom	Outside Activities	Visual Materials	Printed materials	Overall
FY02	2.8	3.1	3.0	2.7	2.9	2.9	2.9
FY03	2.9	3.1	2.8	2.8	2.9	2.9	2.9
FY04	2.9	3.2	2.8	2.9	3.0	3.0	3.0
FY05	3.0	3.2	2.9	2.9	3.0	3.0	3.0

Customer Satisfaction Ratings



No-cost training
 Fee-based training



Volunteer
 Career
 All students did not record status

Institute	FY02	FY03	FY04	FY05
Courses	1,097	792	709	885
Enrollments	21,171	17,776	16,176	20,059
Instructional Hours	221,569	205,482	188,110	233,042
Cost Per Hour	\$5.95	\$5.95	\$6.95	\$7.90
SFTE	739	685	627	777

Company Officer Certificate Program FY05 Graduates

Twelve individuals completed the non-credit Company Officer Certificate Program. This program requires 328 contact hours of instruction in different aspects pertinent to a company officer. This year's graduates were:

Steve G. Grimes
Fenton FPD

Jeff D. Hardy
St. Joseph FD

Brian M. Hershberger
Southern Platte FPD

Paul J. Holtmeyer
Metro West FPD

Barry A. Huff
Gladstone DPS

Scott A. Jones
Springfield FD

Brian M. Main
Southern Platte FPD

Dan McDale
Riverview FD

Michael D. Noonan
Lincoln County FPD 1

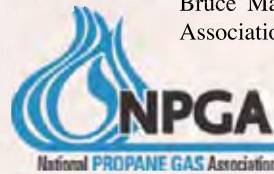
David J. Rierson
Gladstone DPS

Stephen V. Rinehart
Maryland Heights FPD

Salvatore J. Scarpa Jr.
North Kansas City FD



Larry Wilson received the National Safety Award from Bruce Mantroy, chairman of the National Propane Gas Associations Education, Training, and Safety Committee.



Specialist Receives National Safety Award

The National Safety Award is given to a company or an individual who has made "extraordinary contributions to propane safety through public or community education, hazardous materials training, and support or employee training," according to NPGA. Larry Wilson is only the fourth recipient to receive the Award in the organization's seventy-five year history.

Did you know?

140 firefighters have enrolled in the non-credit Company Officer Certificate Program since 2003.

Statewide Survey

MU's Office of Social and Economic Data Analysis (OSED), worked with MU FRTI to develop a statewide fire service survey. A focus group of fire service leaders was conducted, and OSED provided the survey instrument and analyzed of the data. The final report is expected out in summer 2005.

MU FRTI Supports IAFC Firefighter Stand Down

On June 19, 2005, MU FRTI presented a three-hour program on firefighter safety, in support of the national stand down called for by the International Association of Fire Chiefs. The stand down was designed to bring national attention to firefighter safety issues. With the help of the TCRC network, fifty-nine individuals attended the session. Sessions were held in locations across the state, including Mexico, Nevada, Southeast Missouri State, Tri-Lakes, Salem, West Central Extension Office, and UMSL. The presentation was provided to MU FRTI by the Maryland Fire Rescue Institute at the University of Maryland-College Park.

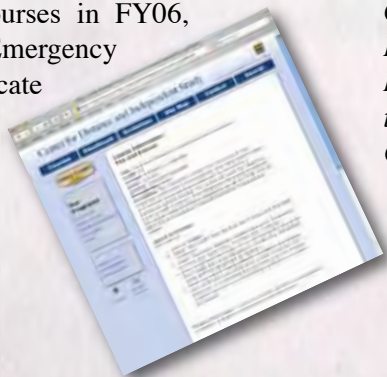


Disaster Resource CD

MU FRTI's Emergency Management program developed a CD of disaster resources this year. The CD, which contains detailed documents, facts sheets, and Internet links, is one of the most comprehensive resources of its kind in the United States. The cost for the development of the CD was paid for by a grant from the USDA in collaboration with the Extension Disaster Education Network. The CD is available at www.mufrti.org.

The Virtual Classroom

In cooperation with the Center for Distance and Independent Study at MU, MU FRTI revised the *Hazardous Materials Incident Response: Awareness* online course and added *Hazardous Materials Incident Response: Operations* course. Students can take the operations course and then complete a one-day skill course to meet the prerequisite for eligibility to take the state certification exam. We anticipate adding additional courses in FY06, including an online Emergency Management Certificate program.



American Council on Education Review

The American Council on Education (ACE) evaluated thirty-four courses for college credit recommendation, offered by MU FRTI. ACE's College Credit Recommendation Service helps adult learners obtain academic credit for learning acquired outside the traditional college classroom by providing college officials with reliable information that can be used to determine credit awards. MU FRTI courses approved by ACE make it easier for students to pursue an Associate degree in fire science.

One-third of the courses in the FY05 course catalog have been evaluated for college credit recommendation by ACE. New courses approved by ACE this year included *Emergency Medical Technician: Basic and Paramedic*; *Hazardous Materials Incident Response: Technician*; *NIMS: Command and General Staff*; *NIMS: ICS for the Fire Service*; *Strategy and Tactics for Initial Company Operations*; *Chief Officer*; *Leadership*; *Human Resource Management*; *Community Risk Reduction and Operations* and *Introduction to Unified Command for Multi-agency and Catastrophic Incidents*.

Other Accomplishments

Companies Who Assisted MU FRTI

The quality of our programs is due, in large part, to the support we receive from various allied organizations. Their support comes in many forms, including the provision of expertise and equipment. Their assistance allowed us to demonstrate to our students the latest equipment available on the market while keeping our overhead and inventory costs to a minimum. MU FRTI would like to extend our sincere appreciation to the following organizations:

- Battalion 3
- Bergquist Education Division
- Columbia College
- Columbia Regional Airport
- Consolidated Energy
- DuPont
- Elkhart Brass
- Halmatro Tools
- IFSTA/Fire Protection Publications
- MFA Propane
- Missouri Propane Gas Association
- Midwest Breathing Air
- Phoenix Tools
- Precision Fire Apparatus
- Reis Environmental
- Schuhmacher Fire Equipment
- Scott Air
- Tower Fire Equipment
- U.S. Rents-It



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MAKING AN IMPACT