



United States Fire Administration

# America's Fire and Emergency Services Leader

Fiscal Year 2008 Annual Report to Congress

March 30, 2009



**FEMA**

## **The United States Fire Administration: Working for a Fire Safe America**

### **History:**

A dismal fire record in the 1970s led to the creation of the United States Fire Administration (USFA) on October 29, 1974. On May 4, 1973, the National Commission on Fire Prevention and Control issued a report, *America Burning*, which focused its attention on the Nation's fire problem and the needs of the fire services and allied professions. As a result, Congress established USFA through Public Law 93-498, the Federal Fire Prevention and Control Act of 1974, to help decrease the tragic losses and to promote the professional development of the fire and the emergency response community.

USFA's position within the Federal Government has changed several times since its creation. USFA, with its National Fire Academy (NFA), National Fire Data Center (NFDC) and National Fire Program (NFP) offices, was created originally within the United States Department of Commerce (DOC). As a result of Reorganization Plan Number 3, USFA was transferred from the DOC to the Federal Emergency Management Agency (FEMA) in 1978, and remained a component of FEMA until October 1, 2005.

On October 1, 2005, as a result of the Department of Homeland Security's (DHS) Second Stage Review (2SR), USFA was transferred from FEMA to DHS' newly-formed Preparedness Directorate. USFA continued to focus on reducing incidents of fire and fire-related deaths, injuries and property damage, and better preparing the Nation's fire service as the primary local emergency responder.

On March 31, 2007, under the Post-Katrina Management Reform Act of 2006, USFA, including the NFA, was transferred back to FEMA. The NFA continues to reside within the USFA at FEMA.

Most recently, on March 30, 2008, USFA underwent an internal realignment, consolidating resources and functions. Some elements of NFP were brought under NFA; NFP was divided into three internal branches, including the NFDC; and resources and functions of National Preparedness Network (PrepNet) and Information Technology support were reassigned to the National Emergency Training Center (NETC) Management, Operations and Support Services Division (MOSS). Subsequently, MOSS was divided into two internal branches. This realignment provides more flexibility, capability, and connectivity in the organization to be responsive to emergent requirements in support of FEMA/DHS.

Since the creation of the USFA, the Nation's fire loss has decreased significantly. Through USFA's public education and awareness initiatives, training, research, technology development, data collection and analysis, and partnering with other fire safety interests, the rate has improved steadily. Over the last 10 years, fires have declined by 13 percent. During this same period of time, a 12-percent decline in civilian deaths and a 28-percent drop in civilian injuries also have been experienced. Although the adjusted dollar loss figures have increased since 1998, this can be explained reasonably by normal increases in construction costs and prices in general.

## **Mission and Challenges:**

USFA is an integral part of DHS and FEMA and it will continue to support FEMA's commitment to all hazards emergency management. Building on the vision of the new FEMA to transform the agency into the Nation's preeminent emergency management and preparedness agency, USFA has developed a five-year *Strategic Plan for Fiscal Years 2009-2013* with its focus and emphasis on the following performance goals: 1) reduce risk at the local level through prevention and mitigation; 2) improve local planning and preparedness; 3) improve the fire and emergency services' capability for response to and recovery from all hazards; 4) improve the fire and emergency services' professional status; and 5) lead the Nation's fire and emergency services by establishing and sustaining USFA as a dynamic organization.

USFA will continue to review and revise its Strategic Plan, as necessary, to establish operational plans that best achieve the USFA goals, objectives, and strategies in support of public education and awareness initiatives, training, research, technology development, data collection and analysis, and partnering with other fire safety interests.

In accordance with USFA's *Strategic Plan 2009-2013*, USFA's mission is to provide national leadership to foster a solid foundation for local fire and emergency services for prevention, preparedness and response. This is accomplished in coordination with Federal agencies, and in partnership with fire protection and emergency services in communities nationwide.

Although America's fire death rate per capita is improving, it continues to be higher than more than half of the industrialized countries of the world. Fire departments in the United States respond to an average of 4,560 fire calls each day. Over the last 10 years, fires in the United States have averaged about 1,664,500 each year. During this same period, there have been approximately 3,695 deaths and 19,405 injuries as the result of fires each year. This represents a decline from previous periods. To put this in national context, the combined average annual losses in the United States from floods, hurricanes, tornadoes, earthquakes, other natural disasters, and terrorist attacks is a fraction of the casualties from fires. Annually, direct property loss from fire is estimated at more than \$10.9 billion and the total cost of fire—including adding fire protection to buildings, paid fire departments, the equivalent cost of volunteer fire departments (\$20 billion annually), insurance overhead, fire-related losses, fire injuries, and other direct and indirect costs to the American economy—is estimated to be more than \$165 billion.

The following table shows the numbers of fires, deaths, injuries and dollar loss in the United States from 1998 to 2007.<sup>1</sup>

**National Fire Statistics—Annual Estimates for Number of Fires, Civilian Deaths, Civilian Injuries, and Direct Dollar Loss (\$ millions) From Fire, 1998-2007**

<u>Year</u>	<u>Fires</u>	<u>Deaths</u>	<u>Injuries</u>	<u>Adjusted \$ Loss In Millions</u>
1998	1,755,500	4,035	23,100	\$10,976
1999	1,823,000	3,570	21,875	\$12,475
2000	1,708,000	4,045	22,350	\$13,494
2001*	1,734,500	3,745	20,300	\$12,391
2002	1,687,500	3,380	18,425	\$11,913
2003	1,584,500	3,925	18,125	\$13,869
2004	1,550,500	3,900	17,785	\$10,750
2005	1,602,000	3,675	17,925	\$11,330
2006	1,642,500	3,245	16,400	\$11,629
2007	1,557,500	3,430	17,675	\$14,639

\* - Does not include World Trade Center data of 2,451 deaths, 800 injuries, and \$33,440,000 in property loss.  
 Note: Dollar Loss is adjusted to 2007 dollars based on the Consumer Price Index (CPI).

USFA continues to work with the fire and emergency services, and its allied partners, to prevent and mitigate the consequences of fire through public education, training, technology, and data collection.

<sup>1</sup> Trends are based on data published in the National Fire Protection Association's (NFPA's) 1998-2007, *Fire Loss in the United States*, and *USFA Fire in the United States 1995-2004*, 14<sup>th</sup> Edition.

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## **Assistance to Firefighters Grant Program**

USFA continues to collaborate with FEMA's Grant Programs Directorate (GPD) in the administration of the Assistance to Firefighters Grant Program (AFG), the Staffing for Adequate Fire and Emergency Response Grant Program (SAFER), and Fire Prevention and Safety Grant Program (FP&S). This collaboration includes assisting with the planning and conducting of fire service outreach and with the development of funding priorities. Additionally, USFA continues to assist in the development and review of program guidance materials, grant announcements for the fire service "trade press," and the maintenance of Web site connections to assist applicants with grant information and applications.

USFA also continues to assist GPD in the administration of the peer review process for these programs. This includes recruiting representatives from the fire service to participate on the peer review panels and providing space and logistical support for the reviews. By providing lodging and meeting room space, computer and telephone services, and security support, all at no cost to the grant program, additional funds are available for grants.

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## **Public Education and Awareness**

**Program Performance:** USFA generates fire safety messages for the general public, and develops and provides public education programs designed for specific at-risk populations. Partnerships and liaisons are established with both public and private organizations to ensure that fire safety messages are not only delivered to targeted at-risk populations, but also that the messages are prepared in a recipient friendly format. One of the primary public education efforts was the “Smoking & Home Fires” campaign that kicked off January 9, 2008, to help reduce the number one cause of preventable home fire deaths. Additionally, USFA began the “Focus of the Month” program that provides monthly messages for the fire service, media, and the public to continue to raise awareness of new fire safety and prevention efforts. USFA also supported the National Arson Awareness Week. This year’s topic was “Toy-like Lighters—Playing with Fire.”

**Program Partners:** USFA capitalizes on its relationships with myriad partners to include activities dedicated to promoting injury prevention and life-safety goals. These public and private partners include, but are not limited to: National Fire Protection Association (NFPA); International Association of Fire Chiefs (IAFC) and its Volunteer and Chief Officers Section (VCOS); Fire Safety Council (FSC); International Association of Fire Fighters (IAFF); National Volunteer Fire Council (NVFC); National Association of Hispanic Firefighters (NAHF); International Association of Black Professional Fire Fighters (IABPFF); Indian Health Service (IHS); National Institute of Standards and Technology (NIST); Consumer Product Safety Commission (CPSC); Safe Kids Worldwide; Home Safety Council (HSC); American Red Cross (ARC); Home Fire Sprinkler Association (HFSA); National Fire Sprinkler Association (NFSA); American Fire Sprinkler Association (AFSA); American Academy of Pediatrics (AAP); ZERO to THREE; and others.

Over the past year, USFA supported or participated in the following:

- “Smoking & Home Fires” public education campaign. The careless use of smoking materials is still the highest preventable cause of fire fatalities. In response to this problem, USFA developed the “Smoking & Home Fires” public education campaign directed at smokers and those who live with them. This campaign provides factsheets, videos, and campaign materials to smokers, people who live with them, fire service members, and the media.
- In response to reports of over 1,500 residential fire fatalities, USFA’s Quick Response Program provided fire safety information to local media and fire departments in areas where fire fatalities occurred. Local fire departments in these areas received a Quick Response Media Kit and were invited to join the Quick Response Media Corps. As members, they receive periodic e-mail bulletins with tips on media outreach and other materials to assist them in taking a pro-active role with local media, especially during a “teachable moment” when a fatality occurred locally. There are over 2,000 members of the Quick Response Media Corps.
- USFA continues to support Safe Kids Worldwide (formerly known as the National SAFE KIDS Campaign) with technical advice and funding. This year, at least 50 percent of the funds provided by USFA were used to support the coalitions and their high-risk

- The Prevention Advocacy Resources and Data Exchange (PARADE) system is based on 10 regional networks that correspond to FEMA Regions. The collaborative relationship between USFA and the PARADE network, whose members are State and local fire marshals, proves that successful linkages are essential to enable the prevention/mitigation/risk-reduction community to better address issues of fire prevention and life safety for the American people. A PARADE Co-Chair workshop was held from June 23-24, 2008, which provided a forum for participants to attend several training sessions and to participate in discussion groups to explore national fire prevention issues and opportunities to network with fire prevention professionals at the national level. Grants were made available to the 10 PARADE regions, which enabled them to conduct regional meetings, purchase or reproduce fire prevention materials, support information exchanges, and undertake other activities related to the PARADE initiative.
- USFA signed an interagency agreement with IHS in July 2008 to educate preschool-aged children and their families about fire safety. This program, titled *Sleep Safe*, includes distribution of smoke alarms to the Head Start children's families and caretakers with follow-up home visits to check installation and maintenance of the alarms. During home visits, *Sleep Safe* workers assess homes for fire hazards and teach fire safety to parents and caregivers. USFA provided coordination and funding for the eighth consecutive *Sleep Safe* Coordinators Workshop held in August 2008 in Albuquerque, New Mexico.
- As a founding member of the Fire Safety Council, USFA worked with the Consumer Product Safety Commission (CPSC) and the Centers for Disease Control and Prevention (CDC) to review, revise, and revitalize the partnership whose goal is to eliminate residential fire deaths. Fire safety and related information is available at [www.firesafety.gov](http://www.firesafety.gov)
- USFA continues to support Fire Corps, a program partner of Citizen Corps, administered by the NVFC via a cooperative agreement with Citizen Corps. The mission of Fire Corps is to increase the capacity of volunteer, career, and combination fire and Emergency Medical Services (EMS) departments through the use of citizen advocates. Fire Corps provides resources for departments to use citizen advocates in non-operational roles so they can develop, implement, and sustain programs and services that will help their department meet the needs of their community. USFA is an active member of the Fire Corps National Advisory Committee and assists with the development of resources for both fire departments and members of the community. More information is available at [www.firecorps.org](http://www.firecorps.org)

- The 2008 Arson Awareness Week (AAW) campaign “Toy-like Lighters—Playing with Fire” distributed press releases, informational materials, and the AAW Media Kit. USFA partnered with the National Association of State Fire Marshals at the Congressional Fire Services Institute Showcase on the Washington DC Mall in April. Additional organizations distributed the AAW Media Kit and other promotional materials including those from the Fire Safe Children & Families Program, Office of the Oregon State Fire Marshal, International Association of Arson Investigators (IAAI) and the NVFC. In the last 2 years, three children died as a result of fires started with toy-like lighters or novelty lighters; many more received burns and other injuries.
- A grant to the NFVC supported collaborative efforts resulting in the revision and distribution of the *Health and Wellness Guide*, development of a retention and recruitment video, a vehicle safety initiative, and a new focus on emergency and medical services. Additionally, work has begun on the development of a safety checklist for Volunteer Fire and EMS departments, which will address health issues, vehicle safety, personal protective equipment, (PPE), and other identified issues. The NVFC Grant also will include, Arson Awareness Week support; the NVFC Dispatch Newsletter, the NVFC Web site ([www.nvfc.org](http://www.nvfc.org)); a *Guide to Communicating with Elected Officials*; revision of the State Benefits Guide; and a toolkit for Wildland Urban Interface for Volunteer and Combination Departments.
- USFA continued its partnerships with the Bureau of Alcohol, Tobacco, Firearms, and Explosives (ATF) and the Federal Bureau of Investigation (FBI) in the revision/updating of USFA’s Fire/Arson Investigation 2-week resident course, now titled *Fire/Arson Origin-and-Cause Investigation*. The expanded partnership between USFA and the ATF includes use of ATF-Certified Fire Investigators for overall curriculum review, revision and/or development; expansion of the USFA arson burn building facilities, and assignment of full-time ATF personnel at NETC to work cooperatively with USFA in arson training and education programs.
- USFA continues to lead the National Fire Service Seat Belt Pledge Campaign in conjunction with the National Fallen Firefighters Foundation (NFFF), IAFC, NVFC, National Institute of Occupational Safety and Health (NIOSH), and NFPA. Over 70,000 signatures have been received and over 300 fire departments have 100 percent participation.

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## **Training**

**Program Performance:** USFA’s National Fire Academy (NFA) provided 4,045 course offerings, reaching 121,775 students, and resulting in 292,345 student days of instruction (see below for breakout below). This was accomplished through delivery of NFA sponsored courses, State and local partner sponsored courses, technology-based self-study programs, and higher education courses. Courses are delivered at the NETC campus in Emmitsburg, Maryland, and throughout the United States in cooperation with State and local fire training agencies, colleges and universities, and online through NFA Online.

In accordance with Public Law 93-498, USFA’s NFA was created to “advance the professional development of fire service personnel and other persons engaged in fire prevention and control activities.” The NFA provides the career and volunteer fire service with courses and programs in fire prevention and suppression technologies, incident management, leadership and advanced managerial skills, fire and arson investigation, hazardous materials response and emergency medical services delivery. NFA also trains allied professionals, including code enforcement officials, architects, city managers, administrators, and planners.

Through a network partnership with seven colleges and universities,<sup>2</sup> NFA’s Degrees at a Distance Program (DDP) initiative provides fire service personnel the opportunity to pursue an academic degree through independent study. Additionally, new distance learning technologies, such as Internet-based courses, continue to be added to the course menu. The following provides a breakdown of the different delivery methods:

**NFA Sponsored Courses:** NFA courses delivered on campus and throughout the country accounted for 561 course offerings to 13,358 students resulting in 56,465 student days of instruction. These deliveries include all NFA Sponsored On- and Off-Campus Programs as well as the Off-Campus Hazardous Materials Program.

- **NFA Sponsored 6-day and 10-day Off-Campus Delivery Program:** Through the NFA Sponsored Off-Campus Delivery Program, NFA delivered 22 scheduled offerings, reaching 510 students resulting in 3,060 student days of instruction. (Note: These numbers are inclusive of NFA sponsored courses identified above.)

**State and Local Partner Sponsored Courses:** These deliveries held throughout the country accounted for 3,484 course offerings to 71,980 students resulting in 206,521 student days of instruction. This included NFA’s State and local partners sponsored 2-day off-campus college and endorsed programs which are conducted at no cost to USFA.

**Technology-Based Self-Study Programs Courses:** The program offers a variety of subjects, which include paper-based, Web-based and CD-ROM formats. In FY 2008, 36,437 students completed NFA Self-Study Programs, resulting in 29,359 student days.

<sup>2</sup> Participating colleges and universities include Empire State College, Western Illinois University, University of Maryland, Western Oregon University, University of Memphis, University of Cincinnati, and Cogswell College.

**Degrees at a Distance Program Courses (DDP):** DDP is an independent study degree program sponsored by the NFA, which has agreements with seven regionally-accredited colleges and universities<sup>2</sup> throughout the country to offer bachelor's degrees with concentration in fire administration/management and fire prevention technology.

- DDP provides an alternative means for fire service personnel to earn a bachelor's degree or pursue college-level learning in a fire-related course concentration without the requirement of having to attend on-campus classes.
- Approximately 2,500 enrollments were generated by 1,350 degree-seeking students in the program. To date, an estimated 1,800 firefighters and officers have received their bachelor's degree through DDP.

**Higher Education Programs:** NFA's higher education program is comprised of a Web-based bachelor's degree through the DDP and the Fire and Emergency Services Higher Education (FESHE) program. FESHE is a national peer-driven network of colleges and universities that develop products to enhance their degree programs. Participating colleges and universities include Empire State College, Western Oregon University, University of Memphis, University of Cincinnati, and Cogswell College, Western Illinois University, and University of Maryland.

**FESHE Conference:** NFA hosted the 10th annual FESHE Conference on the NETC campus in Emmitsburg, Maryland in June 2008. There were 172 attendees - the largest attendance at the conference to date and a 7.5 percent increase over the previous year. Attendees learned about State and local applications of the national model for professional development and changes to the model associate's degree in the fire science curriculum. State training agencies are taking steps to convene statewide professional development summits that will bring key stakeholders together to create a unified and integrated system of fire service training, education, and certification.

- Twenty-one States and one major metropolitan fire department, Baltimore City Fire Department, have begun the six-step process for implementation of an integrated, competency-based professional development system. Another major metropolitan fire department, the District of Columbia Fire and EMS Department, has completed this process.

**NFA Endorsement of State Courses:** Recognizing that NFA cannot develop all State and local training curricula, the NFA has begun to endorse some courses developed at the State training academies as equivalent to NFA courses in quality and content. These courses, submitted by the States, meet an agreed upon set of criteria and are eligible to receive NFA endorsement, and students are eligible to receive NFA certificates. In FY 2008, NFA revised the process of endorsing courses, making it 100 percent online.

- Endorsed courses are available for distribution to other States that may not have adequate resources to develop their own similar courses. The States involved manage the process for exchange, costs, and instructor qualifications.

<sup>2</sup> See footnote 2 on pg. 9.

- To date, 193 courses have been approved. In FY 2008, 930 course offerings were delivered to 17,050 students, resulting in 86,519 student days of instruction. (Note: These numbers are reflected in the State and local sponsored courses reported under “State and Local Partner Sponsored Courses.”)

**State Training Assistance:** State Fire Training Assistance distributions totaled \$1,344,000. Each of the 50 State Fire Training Systems was eligible to receive \$28,000 in State Fire Training Assistance. Only California and New York chose not to participate.

- Eligible categories of NFA courses for State Fire Training Assistance deliveries included hand-off courses, select 6-day courses, 2-day direct delivery courses, and NFA endorsed courses.
- **Training Resources and Data Exchange (TRADE):** The TRADE system is based on 10 regional networks that correspond to the 10 FEMA Regions. The collaborative relationship between USFA and the TRADE network, whose members are State Fire Training Directors and the Training Chiefs of the Nation’s largest fire departments, demonstrates that successful linkages are essential to enable the training community to better address issues of fire training and life safety issues for firefighters. USFA approved and awarded \$93,000 in grants to the 10 TRADE Regions. These grants enabled TRADE Regions to conduct regional meetings, purchase or reproduce fire training materials, support information exchanges, and undertake other activities related to the TRADE initiative. There is a TRADENET newsletter published weekly that reaches over 23,000 subscribers. NFA saw a 204-percent increase in the number of new subscriptions for TRADENET in the last 6 months of FY 2008.

**Training Evaluation Center:** NFA continued a systematic study of resident courses with students and their supervisors to determine the long-term training effectiveness. During the program year April 2007 through April 2008, 36 course offerings were surveyed with 247 students and 332 supervisors responding. Overall, the early pilot process netted survey results from 436 students and 623 supervisors in a span of 4 to 6 months after students completed a course at the Academy. As with previous year responses, students indicated they were able to transfer the training skills and learning to their jobs. Of the students surveyed, 96.5 percent reported they were able to apply NFA training when they returned to their jobs. Additionally, 96.4 percent say NFA training improved their job performance. An important effect of NFA training is the fact that 99.6 percent of students say they shared their NFA training with their peers, and about 27.5 percent actually held formal training sessions in their departments.

- Approximately 57.1 percent of students surveyed left NFA with plans to establish new policies or procedures when they returned to the job. Of that group, 68.6 percent established new policies and procedures; with 82.9 percent indicating the new policy or procedure improved the way the department conducted business.
- Supervisors of the surveyed students were positive about the effects of NFA training on their employee and on the department. Of the supervisors surveyed, 84.7 percent indicated NFA training improved the employee’s job performance, while 86.1 percent thought the training

**NFA Online:** The NFA concluded the first full year of operation using NFA Online, a new Web-based learning management system. NFA Online has had tremendous success in providing Web-based training opportunities for the Nation's fire service. During its first full year of operation NFA Online offered, 22 individual courses and resulted in over 30,000 course completions. During FY 2008, NFA Online delivered stand-alone course content, as well as pre-course blended-learning requirements. The system was used for collaboration and information sharing through threaded discussion forums and served as the portal for NFA's annual national course endorsement process.

- Working in collaboration with the National Wildfire Coordinating Group (NWCG), NFA Online also sponsored and hosted two critical wildland fire courses targeting both the wildland and the structural firefighting communities. Partnership activity will continue for the foreseeable future by way of a formal Memorandum of Understanding (MOU) and four new wildland courses, expected to be rolled out in the latter part of FY 2009.
- Continued growth and expansion of NFA Online is expected in FY 2009. The system's performance management module will be used to host a 360° Rater process for NFA's *Executive Leadership* curriculum and pilot-testing of a new virtual classroom environment with the inclusion of Adobe Connect software. In addition, NFA Online will serve as a spring board for the FESHE Program by launching a full-scale demonstration project using the DDP course content.

**Internship Opportunities:** The NFA created a college/university internship program to enable qualified students to spend up to 1 year as interns with one or more training specialists in their curriculum area. The program is open to men and women who are college sophomores or juniors who have shown an interest in the fire protection or emergency services field. The goal is to have at least two interns on campus at all times.

**Digital Student Manuals:** In an effort to be more environmentally responsible, and to address student concerns about convenience and shipping costs, the NFA began developing a 1- to 3-year plan to transition from paper-based Student Manuals to electronic media.

**American Council on Education:** The USFA continued to offer courses that have been reviewed and approved by the American Council on Education's (ACE) College Credit Recommendation Service. This enables NFA students to seek academic credit for NFA courses applied to their college and university degree programs.

**Continuing Education Units:** Beginning in the summer of FY 2008, students who need Continuing Education Units (CEUs) to maintain certification in their States or professional associations can earn CEUs for each NFA online course they complete through NFA Online.

Additionally, a timeline was established for NFA to begin granting CEUs for resident courses completed after October 1, 2008. The CEU program is administered through the International Association for Continuing Education and Training (IACET).

## **Incident Management Curriculum**

**Simulation Laboratory:** The Simulation Laboratory provides simulation training in command and control of emergency incident operations based on the principles prescribed by the National Incident Management System (NIMS). The NFA and the Emergency Management Institute (EMI) share a facility, and regularly conduct joint simulations. The laboratory is configured to afford candidates “real-world” training in a variety of emergency situations, encompassing incidents such as dwelling fires, commercial and large structure fires, man-made and natural catastrophic disasters, and major emergency events including hazardous material releases and mass casualty incidents. Computer generated three-dimensional and two-dimensional models are used to provide visual cues and are generated through the use of commercial off-the-shelf software and controlled through a standard personal computer. The goal of simulation training is to provide the student with a variety of visual and auditory cues that will enhance the decision-making process in practical situations. Personnel who have attended this training have reported how beneficial it was in the successful management of significant events in their local jurisdictions.

Thirty-five computer enhanced simulations used to support NFA Command and Control courses have been completed. In addition, several computer-based training (CBT) scenarios have been developed and are available through NFA Online. There are 35 additional simulations being used in the various command courses, however computer enhancements have not yet been added.

**Online Training:** Five courses and six simulations were finalized and made available through NFA Online as follows:

- Q297 *Awareness of Command and Control Decisionmaking at Multi-Alarm Incidents*
  - Q462 *ICS 100, Introduction to Incident Command System (ICS) for Operational First Responders*
  - Q463 *ICS 200, Basic NIMS ICS for Operational First Responders*
  - Q464 *ICS 300, Intermediate All-Hazard NIMS ICS Review for Expanding Incidents*
  - Q466 *ICS 400, Fundamentals Review for Command and General Staff*
  - Q324 *ICS Simulation Series: Ranch House Fire*
  - Q325 *ICS Simulation Series: Townhouse Fire*
  - Q326 *ICS Simulation Series: Mansion Fire*
  - Q328 *ICS Simulation Series: Strip Mall Fire*
  - Q424 *ICS Simulation Series: Nursing Home*
  - Q617 *Wildland/Urban Interface Fire Simulation*
- The new 6-day course R297 *Command and Control of Fire Department Operations at Multi-Alarm Incidents* was developed and delivered successfully with a mandatory precourse Web-based interactive self-study element. The classroom portion contains some critical lectures, but is primarily application-oriented (simulation).

- The following courses are under revision: F321 *Incident Command for Highrise Operations* and F610 *Introduction to Wildland/Urban Interface Firefighting for the Structural Company Officer*. Both courses completed pilot deliveries in FY 2008. The final products are expected in early FY 2009.
- USFA completed Phase III of the Skills Crosswalk project. The goal of the project is to leverage the existing skill sets of structure firefighters and minimize redundancy and classroom time for the structural firefighter seeking to develop wildland fire skills. The Crosswalk methodology identified parallel technical competencies between structural firefighters and officers equivalent with those of four National Wildfire Coordination Group (NWCG) positions: Firefighter Type 2 (FFT2), Firefighter Type 1 (FFT1), Engine Boss Single Resource (ENGB), and Strike Team Leader Engine (STEN). The Crosswalk identified specific technical competencies that structural firefighters trained to the National Fire Protection Association (NFPA) standards do not address, such as specific wildland fire tactical concepts, wildland fire behavior, etc. Learning modules within the NWCG training courses addressed the skill gaps. Each “gap” course is comprised entirely of NWCG training materials pulled into specific courses. The four courses are
  - G-130, *Wildland Training (FFT2) for Structural Firefighters*
  - G-131, *Wildland Training (FFT1) for Structural Firefighters*
  - G-231, *Wildland Training (ENGB) for Structural Firefighters*
  - G-330, *Wildland Training (STEN) for Structural Firefighters*

### **Arson Mitigation Curriculum**

- USFA continued its partnerships with the Federal Bureau of Investigation (FBI), the Consumer Product Safety Commission (CPSC), the National Institute for Occupational Health and Safety (NIOSH), the U.S. Army-Criminal Investigation Division, the Bureau of Alcohol Tobacco and Firearms and Explosives (ATF), NWCG Wildland Arson Working Team, the Cornell Abraxus Youth Center, and the National Center for Forensic Science’s Task Working Group for Fires and Explosions on issues related to training of fire investigators.
- USFA continued its partnership with the CPSC by providing specialized fire investigation training for CPSC field agents.
- USFA continued its partnership with the ATF and the FBI in the revision/updating of USFA’s former Fire/Arson Investigation 2-week resident course, now titled *Fire/Arson Origin-and-Cause Investigation*. Expanded partnership between USFA and ATF includes use of ATF Certified Fire Investigators in overall curriculum review, revision, development, and expansion of the USFA arson burn building facilities. Also included is the assignment of full-time ATF personnel at NETC to work cooperatively with USFA in arson training and education programs.
- USFA continued to enhance professional development through attendance at the Annual Symposium of the National Center for Forensic Science on fire and explosions and through a

- USFA continued the development of a new course entitled *Forensic Evidence Collection* in partnership with the American Board of Criminalists, ATF, and FBI. This course will target the scene fire/arson investigator, laboratory forensic specialists, and bomb technician community as a key component in addressing increasing incidents of explosions and incendiary fires using incendiary and improvised explosive devices.
- USFA participated as a liaison member of:
  - NFPA’s Guide for Fire and Explosion Investigations Technical Committee;
  - NFPA’s Standard for Professional Qualifications for Fire Investigator Technical Committee;
  - NWCG’s, Wildland Fire Investigation Working Team;
  - National Center for Forensic Science’s Task Working Group for Fires/Explosions.

### **Hazardous Materials/Weapons of Mass Destruction (WMD) Program Curriculum**

- USFA and the International Association of Fire Chiefs (IAFC) continued their collaborative initiative in the area of “Fire Service Hazardous Materials Preparedness and Response.” This effort provides the fire and emergency services community and other local government officials with information on the mitigation, prevention, and response to hazardous materials incidents, including acts of terrorism and critical infrastructure protection. As part of this partnership, a Hazardous Materials Roundtable was conducted in Fairfax, Virginia, in which national experts identified and discussed emerging issues relating to hazardous materials preparedness and response. The Roundtable also included a forum identifying critical training and education needs of emergency responders that enabled USFA to better understand the needs of its constituents. Additionally, through this initiative, USFA supported IAFC’s Annual Hazardous Materials Response Teams Conference in Hunt Valley, Maryland providing an opportunity for information exchange, emergent issue discussions and training “in-context.”
- USFA has undertaken the development of a *First Responder Hazardous Materials/Weapons of Mass Destruction Operations* Course for hand-off to State and local fire training agencies. This course is designed to promote compliance with the 2008 version of NFPA 472, *Standard for Professional Competence of Responders to Hazardous Materials Incidents*. This effort will include both a traditional classroom/practical based course as well as a Web-based blended learning and assessment tool. This effort is planned for expansion in 2010 to include a hazardous materials technician curriculum.
- USFA was instrumental in DHS’s adoption of NFPA 472, and NFPA 473, *Standard for Competencies for EMS Personnel Responding to Hazardous Materials Incidents*. These adoptions will aid in standardizing the training curriculums and ensuring that responders have the knowledge, skills, and abilities to meet the demands of responding to hazardous materials and terrorism incidents. The adoption was completed with the assistance of the

- USFA continues to distribute a computer-based refresher for the *Chemistry for Emergency Response* to all students who have completed the *Chemistry for Emergency Response* and the *Advanced Life Support Response to Hazardous Materials Incidents* courses. This allows students to review or refresh the knowledge gained in the course which, in most cases, is infrequently used and at risk of being lost over time.
- USFA has revised the *Hazardous Materials Operating Sites Practices* and *Hazardous Materials Incident Management* courses. Additionally, USFA began revision of the *Chemistry for Emergency Response and Advanced Life Support Response to Hazardous Materials Incidents* course to better reflect the changes brought on by the evolution of the National Response Framework (NRF) and National Incident Management System (NIMS). The changes will follow the 2008 version of NFPA 472. These revisions institutionalize a risk-based response to all hazards incidents. Changes also reflect lessons learned in response to the 2004 hurricanes in Florida, the 2005 hurricanes in Louisiana and Texas, and other recent events.
- USFA continued its role as a liaison member of the NFPA's Hazardous Materials Response Personnel Technical Committee, which oversees the NFPA Standards 471, *Recommended Practice for Responding to Hazardous Materials Incidents*, 472, and 473.
- USFA continued its participation in the implementation of Homeland Security Presidential Directive-8 (HSPD-8), "National Preparedness," by participating in several working groups in the development and revision of the Target Capabilities List (TCL) as organized by the DHS/FEMA National Preparedness Directorate. USFA also participates in the Fire/Hazardous Resource and Credentialing Working Group in support of HSPD-5, and the NIMS as facilitated by the DHS/FEMA National Preparedness Directorate's Incident Management Systems Division.
- USFA mapped all of the courses and programs currently supported to the National Preparedness Taxonomy to include the Missions and TCL to ensure USFA is working toward building a more prepared Nation to face response challenges to all hazards consistent with HSPD-8.
- USFA continued participating as a member of the IAB for equipment standardization and interoperability.
- USFA continued and expanded interagency partnerships including partnerships with the Department of Transportation (DOT), the National Institute of Environmental Health Sciences, the NIST, the Department of Defense, the National Guard Bureau, and various DHS components.
- USFA provided technical assistance in response to disasters and major events to include response and recovery activities in support of Emergency Support Function-4 (ESF-4) under the NRF.

- USFA continues to ensure the hazardous materials/weapons of mass destruction (WMD) curriculum meets the needs of the fire service and emergency responders for both resident and off-campus deliveries by ensuring current information is delivered by competent instructors.
- USFA is revising the online courses *Emergency Response to Terrorism (ERT): Self-Study* and the *Emergency Response to Terrorism Interactive* to ensure consistency with the 2008 version of NFPA 472, and other current and emerging needs.
- USFA is in the process of distributing the new 2-day course, *Emergency Response to Terrorism: Strategic and Tactical Considerations for Supervisors*. This new course is being handed off to State and local jurisdictions for delivery. Another course, Q534 *Emergency Response to Terrorism: Self Study*, was made available through NFA Online.

### **Interagency-Hazardous Materials Programs**

- USFA continues to co-chair the National Response Team Training Committee. The Committee coordinates interagency training efforts in the areas of hazardous materials and WMD training for planning, response, mitigation and prevention roles and responsibilities at the Federal, State, and local levels.
- USFA manages the Hazardous Material Emergency Preparedness (HMEP) curriculum program under an interagency agreement with U. S. DOT, to include maintaining and publishing National Hazardous Materials/WMD standards entitled “Guidelines for Public Sector Hazardous Materials Training,” assessing all hazardous materials and WMD training courses in use at the State and local levels, and providing technical assistance and guidance to State and major metropolitan training officers in managing hazardous materials curriculums.
- Work began on the prototype delivery system, EZ Training, designed to reach volunteer firefighters who are unable to participate in a more structured course. In FY 2008, the initial analysis, needs assessment and design for these offerings were completed. A more formal proposal was developed and presented to State fire training agencies for vetting. Work will continue on this project in FY 2009 and include several States’ pilots.

### **Emergency Medical Services/Firefighter Health and Safety Curriculum**

**Emergency Medical Services: Management of Community Health Risks:** This course represents a major USFA-EMS prevention initiative and targets emergency medical services (EMS) providers, supervisors and program managers responsible for development and implementation of community health and safety programs. The students will develop a community-specific Health Outcome Management Plan (HOMP) that will have the goal of reducing preventable illness and injuries within a community by 25 percent. The course guides the students through valuing the effects of EMS on injury prevention and community health, the public health prevention model and associated practices, health risk assessment/injury prevention and application, definition of community health practices and development, marketing and application of the HOMP. It is anticipated that the emergency responders who complete this

course will be instrumental in the development of their communities' Pandemic Influenza Action Plan.

**Management of Emergency Medical Services:** This course focuses on practices relating to management of the emergency service sector component of emergency response, with emphasis placed on the EMS of the fire service. The course is interactive and fast-moving and will enable participants to deal effectively with day-to-day management issues that managers are likely to encounter. Personnel and resource management, and quality improvement techniques are some of the major components of this course. Upon completion, the course participants will be able to enhance the quality and overall effectiveness of their EMS operation through the use of management techniques. The course is currently under revision to update the information in the curriculum to meet the current technology used in management of fire service and EMS, as well as aligning EMS with the Incident Command System (ICS)-NIMS-Terrorism components.

**Advanced Leadership Issues in Emergency Medical Services:** This course is designed for upper-management who have organizational responsibility for EMS operations in their agency or jurisdiction. Situational, scenario-based instruction is the foundation of this course with an emphasis on problem-solving and decisionmaking techniques. Leadership techniques as they relate to establishing and directing EMS work teams are also an important component. The course is currently proposed for a revision to meet the current technology used in management of fire and EMS services, as well as aligning EMS with the ICS-NIMS-NRF-Terrorism components.

**Emergency Medical Services: Special Operations:** This course is designed to enable EMS System Managers to prepare their organizations to respond to special operations by identifying potential hazards, determining potential resource needs, determining how those resources may be acquired, and developing a plan that enables the effective control of these events. Events such as mass-casualty incidents, storms, earthquakes, technological emergencies, mass gatherings, dignitary visits, and terrorism can place an unusual demand upon our ability to provide continued EMS response to our anticipated daily call volume. Through effective planning and preparation for these unique events, we can continue to respond effectively to our customers. This program discusses many of these special operations and the burdens they place upon our communities, EMS systems, and the responders within our systems. The course is near completion with its revisions to update the information in the curriculum to meet the current technology used in management of fire and EMS services, as well as aligning EMS with the ICS-NIMS-NRF-Terrorism components.

**Advanced Safety Operations and Management:** This course focuses on applying the risk management model to health and safety aspects of emergency services operations, including program management of day-to-day operations and incident safety. Content areas include firefighters and emergency services fatality and injury problem; the risk management process; safety responsibilities of department members; regulations, standards, and policies affecting emergency services safety; and appropriate documentation and recordkeeping pertaining to firefighter and emergency service sector health and safety. The course is proposed for a revision that will update the information in the curriculum to meet the current technology used in management of emergency service sectors, as well as aligning EMS and health and safety with the ICS-NIMS-NRF-Terrorism components.

**Emergency Response to Terrorism: Tactical Considerations: Emergency Medical Services:**

This course is designed for the first on-the-scene responding EMS personnel with the responsibility to render patient care to victims of terrorist incidents. The course trains students in security considerations, identifying signs of terrorism, anticipating unusual response circumstances, assessing information, and initiating self-protection actions. The participants will apply their knowledge of responding to a terrorist event, providing patient care, identifying and preserving evidence, managing site safety, documenting the event, and debriefing personnel through class exercises.

**Health and Safety Officer:** This course examines the Health and Safety Officer's role in identifying, evaluating, and implementing policy and procedures that improve health and safety issues for emergency responders. Additionally, this course emphasizes risk analysis, wellness, and other occupational safety issues, and is currently undergoing a minor revision to update the information in the curriculum to meet the current technology used in management of fire and EMS services, as well as aligning EMS with the ICS-NIMS-NRF-Terrorism components.

**Incident Command System for Emergency Medical Services:** This course will introduce students to the concept of EMS-specific incident command through lecture, guided discussion and activities. They will use scenarios, case studies, graphics, audiovisuals, and role play to demonstrate understanding of the concept. This course is undergoing a minor revision to update information in the curriculum to match the current technology used in management of fire and EMS services, as well as to align EMS with the ICS-NIMS-NRF-Terrorism components.

**Incident Safety Officer:** This course examines the Safety Officer's role at emergency responses, with a specific focus on operations within the ICS as a Safety Officer. Response to various types of situations will be emphasized through the all-hazard incident management team process. This course is undergoing a minor revision to update the information in the curriculum to match the current technology used in management of fire and EMS services, as well as to align EMS with the ICS-NIMS-NRF-Terrorism components.

**Online Training:** One course was delivered through NFA Online, *Q157 EMS Mass Casualty Incidents*.

## **Executive Development Curriculum**

### **Executive Fire Officer Program**

- The Executive Fire Officer Program (EFOP) is a significant component of the 2-week Resident Delivery Program. The EFOP participants include senior fire executives and other key leaders. EFOP participants attend one course within the EFOP curriculum per fiscal year for 4 years. After each of the four EFOP courses, EFOP participants are required to complete an Applied Research Project (ARP) whereby formal studies are conducted aiming to resolve a problem or issue that exists within the EFOP participant's community. EFOP participants are encouraged to link their selected problem area with operational objectives of the USFA. The project collection is archived in the NETC's Learning Resource Center (LRC). This collection of over 8,000 documents is the largest and most referenced collection within the LRC.

- Approximately 240 senior fire executives and key leaders of fire/emergency services organizations began the 4-year program in 2008. At any time, there are over 800 fire officers participating in some phase of the program. This year, USFA received and reviewed 400 application packages, and selected 210 applicants to begin the program in FY 2009.
- The 20th Annual EFOP Graduate Symposium was held from March 28-30, 2008. The International Fire Service Training Association (IFSTA) provided a presentation for the Symposium. Approximately 200 alumni participated, marking two decades of the existence of the annual event; a notable accomplishment since participants do not receive any stipend or travel assistance for this event.
- The *Applied Research Self Study* course is available through NFA Online.

**Harvard Fellowship Program.** The USFA awarded eight fellowships to senior fire executives to attend and participate in the Harvard University Kennedy School of Government “Senior Executives in State and Local Government Program.” Along with DHS/USFA, the fellowship program is sustained and sponsored by IAFC, IFSTA, and the NFPA. Each sponsoring organization funds two fellows.

**Leadership Effectiveness/Multi-Rater Assessment Instrumentation.** For years USFA has used within its executive development program courses a battery of multi-rater assessment instruments to provide participants feedback regarding their leadership effectiveness. USFA continued efforts during FY 2008 to place a new battery of multi-rater psychological/leadership effectiveness instruments within a hosted Web site for online completion, scoring, and administration. Work continues on this effort with an anticipated start-up in the second quarter of FY 2009.

### **Planning and Information Management Curriculum**

- USFA revised the 2-week *Partnering for Fire and Emergency Services Planning* course into a 6-day offering that enhances local and regional effectiveness by building interagency capabilities, coordinated responses, and risk reduction planning.
- A new *Long Term Recovery Planning* course was developed to look at risk-based planning and sustainable communities. The course prepares fire department senior officials to make sound and thoughtful decisions regarding natural and manmade disasters that impact their communities.
- Two new technology-based courses were developed to support the fire services need for assessment and evaluation tools:
  - The 6-day *National Fire Incident Reporting System-Program Management* (NFIRS-PM) course for State, tribal, regional and local organizations, which provides the fire services with standardized reporting.
  - The *National Fire Incident Reporting System: Standards of Cover* (NFIRS:SOC) course uses fire and EMS, and national data to model performance measurements and analyzes resource requirements in terms of quantifiable community outcomes.

- One course was available through NFA Online, Q494 *National Fire Incident Reporting System 5.0 Self Study*.

## **Public Fire Education Curriculum**

- USFA completed revisions to the 6-day resident course, *Changing American Family at Risk* (CAFR). A new pre-course assignment was developed, and new content on social marketing was added. The CAFR course emphasizes the importance of, and methods for, reaching today's families to make behavioral changes to protect them from fire. The course teaches strategies for establishing positive relationships (including new concepts on social marketing), which result in behavioral change. The CAFR course also presents future strategies to create sustainable changes at the local level, resulting in a reduction of the fire problem.
- Although pilot offerings have been completed, USFA continues to revise three NFA 6-day resident public fire education courses, which were all converted from 2-week courses. The courses now offer a blend of research, networking, technology and new public education techniques. The 6-day courses include: *Community Education Leadership*, *Discovering the Road to High-Risk Audiences*, and *Developing Fire and Life Safety Strategies*.
- Selected resident fire safety and prevention classes continued to tour the Children's Safety Village in Hagerstown, Maryland. Children's Safety Village is a nonprofit, nationally known, life safety education complex that provides comprehensive life safety instruction to all Washington County, Maryland public and private school second grade students. During the tour, resident students receive lectures and demonstrations reflecting on the elements of success for a local community-based life safety education program. The facility, the curriculum and the story behind its success continue to provide inspiration to hundreds of other fire safety and prevention specialists.
- USFA began the development of a new 6-day on-campus fire prevention/public education course in the area of measuring the fire prevention program. The course, titled *Demonstrating Your Fire Prevention Program's Worth*, will be designed for inspectors, public fire and life safety educators, fire marshals, and code officials. The purpose of the course is to provide students with the skills and tools to effectively and efficiently evaluate their own fire prevention programs. The new course will be pilot tested in FY 2009.
- USFA continues to design and develop unique and colorful brochures as well as portable document format (PDF) electronic flyers for student recruitment into NFA's public education curriculum. The brochures are sent each semester to all USFA's PARADE members, NFPA local public education champions, and electronic flyers are sent to former students in prevention classes. The distribution of brochures and flyers coincide with the open enrollment period for two semesters.
- One course was available in the Fire Prevention: Public Education curriculum through NFA Online, Q118 *Self Study for Community Safety Educators*.

## Training Management Curriculum

- NFA updated the *Challenges for Local Training Officers (CLTO)* course to focus on the perspective of a small volunteer organization. The CLTO course is a 1-week program for training officers in small fire/emergency services organizations. Learning activities and content have been inserted that are more appropriate for a small volunteer fire and emergency training organization. The CLTO course is offered in NFA's Volunteer Incentive Program.

## Fire Prevention Technical Curriculum

- NFA developed a new 6-day course, *Water-Based Fire Protection Extinguishing System Plan Review*. The course is designed for off-campus delivery to reach the broadest possible audience.
- A former on-campus course, *Fire and Life Safety Plan Review*, has been migrated to off-campus delivery only. These changes are part of an effort to use scarce on-campus resources for future-oriented courses rather than technical skill training.
- NFA's weekly training program called Coffee Break Training distributes short, technical training tips. There are nearly 25,000 subscribers in the United States and 13 other countries. This is an increase of 18,500 subscribers or 330 percent in one year. NFA also developed two topical video podcasts for the training series. In FY 2008, volumes of Coffee Break Training consisting of approximately 13 weekly bulletins each were made available through NFA Online with an examination at the end of each volume. Students who successfully complete the exams are granted CEUs.
- The three 1-day courses created by Underwriters Laboratories, (*Fire Prevention and Safety Grant: Fire Behavior in a Single-Family Residence, Fire Modeling in a Single Family Residence and A Comprehensive Approach to Fire Protection in Commercial Occupancies*) were delivered a total of 96 times in on- and off-campus venues, reaching nearly 2,000 students. The courses are being revised to expand to a 2-day training class by adding content, activities, and final exams.
- NFA has begun studying the feasibility of delivering technical training on fire protection systems and equipment through digital simulation rather than the traditional hands-on method employed. An electronic simulation environment will enable a larger number of students to have instant and limitless access to fire protection systems and equipment such as sprinklers, fire pumps, fire detection and alarm, and other specialty systems.
- Several courses were available in the Fire Prevention: Technical Curriculum through NFA Online:
  - *Alternative Water Supply: Planning and Implementing Programs*
  - *Testing and Evaluation of Water Supplies for Fire Protection*
  - *Volumes 1 through 4 of the Coffee Break Training series*

## **Fire Prevention Management Curriculum**

- USFA has implemented a completely new course for the second year in the EFOP entitled *Strategies for Community Risk Reduction* (SCRR). This course is the capstone national training for strategic management of prevention and risk reduction programs at the Chief Officer level.

## **Management Science Curriculum**

- USFA continues to use the Skill Bank (Skills Tutor) tutorial in the *Fire Service Communication* precourse assignments. This is an online method which provides students the ability to complete these assignments prior to arriving and attending this resident course.
- NFA, in cooperation with the IAFF and IAFC, has incorporated the *Firefighter Safety: Calling the Mayday* courses into the new *Fire Ground Survival Guide* and curriculum.
- USFA developed podcasts on Mayday Doctrine: *Where Are We Now?* and *Does It Take a Doctorate to Lead the Fire Service?*, which were delivered through Firehouse Radio at no cost to the government.
- The new course, *Administration of Public Assistance for Community Recovery*, was pilot tested three times in FY 2008. This program targets local fire service managers responsible for overseeing systems to collect and process response information needed to support local Public Assistance applications during recovery from disasters and other incidents of national significance. To make the course available to more State and local participants, plans were made to deliver the course at FEMA Joint Field Offices.
- A major curriculum update process, covering eight courses, began in the fourth quarter of FY 2008.
- One course was available in the Management Science Curriculum through NFA Online, Q318 *Fire Service Supervision*.

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## **EMERGENCY RESPONSE SUPPORT PROGRAMS**

**Program Performance:** The USFA develops and manages response support programs designed to increase the capacity of both the Nation's fire and emergency services and the general public to better prevent, mitigate, prepare for, and respond to local, regional and national emergencies. Particular emphasis is focused on critical infrastructure protection, information sharing and intelligence.

### **All-Hazard Incident Management Team (AHIMT) Technical Assistance Program**

The premise for this program is to develop Type 3 AHIMTs that will manage events/incidents locally and/or when requested nationally in accordance with HSPD-5.

- *(O305) AHIMT:* Deliveries are continuing with the target audiences being the 50 States and Urban Area Security Initiative (UASI) urban areas. To date there are 51 established teams with 36 State, 8 UASI and 7 Regional teams.
- **Command and General Staff Position Specific Offerings:** Position Specific Task Books (PSTBs) are included with eight ICS Command and General Staff offerings. Competencies are consistent with those of USFA partners at NWCG, Environmental Protection Agency, U.S. Coast Guard and the U.S. Department of Agriculture. ICS Position Specific Unit Leader offerings are under various stages of development with pilots to be scheduled in FY 2009.
- **USFA:**
  - coordinated a total of 29 offerings of the 6-day Type 3 AHIMT program professional development for States, metropolitan regions, and UASI Regions-all funded by teams using existing funding through grants, or operating budgets;
  - coordinated field mentoring opportunities for AHIMTs in conjunction with our partners at U.S. Forest Service;
  - coordinated National Capital Region Incident Management Team (IMT) Exercise at NETC in March 2008;
  - monitored Emergency Management Assistance Compact (EMAC) requests for AHIMTs for deployment during the Democratic and Republican National Conventions, the 42nd Super Bowl, wildland fires, eco-terrorism incidents, tornadoes, floods, hurricanes, and other Type 1, 2, and 3 complex incidents;
  - continued coordination and development with NIMS/IMSID regarding ICS position-specific courses for the AHIMT Type 3 program;
  - developed a "Planning Process" DVD to be used by DHS.
  - attended meetings and contributed to the DHS/NIMS 5-year training program process; and
  - chaired the NIMS/IMSID Competency Change Management Board which is responsible for the coordination/continuity between NWCG and DHS ICS Position Specific Task Books;

## **NIMS Coordination**

- A major undertaking of this program area was the coordination of information and activities with the National Integration Center (NIC) and other agencies developing and/or delivering courses that affect emergency responders. Specifically, this program area coordinated and collaborated on many ICS-related training projects with the Incident Management System Integration Division (IMSID), FEMA Regional NIMS Coordinators, the NWCG, the U.S. Coast Guard (USCG), the U.S. Department of Agriculture (USDA), and the Environmental Protection Agency (EPA).
- USFA coordinated monthly meetings with EMI to reduce/avoid duplication of development or revisions of NIMS/ICS related courses.
- A joint USFA/EMI version of ICS 300 and ICS 400 has been released to State Fire and Emergency Management training officials.
- The NIMS/IMSID, and other partners have updated the 5-year training program for NIMS/ICS compliance that will have crosswalks for each level of responder, and identifies which Federal agencies provide ICS-compliant training. This 5-year training plan will ensure the competencies are the same at each supervisory/managerial level and are coordinated by the NIMS/IMSID.

## **Critical Infrastructure Protection (CIP)**

- USFA's Emergency Management and Response—Information Sharing and Analysis Center (EMR-ISAC) worked closely with DHS's National Operations Center (NOC), National Infrastructure Coordination Center (NICC), Office of Intelligence & Analysis (IA), Office of Infrastructure Protection (IP), Infrastructure Partnerships Division (IPD), and Chemical & Nuclear Preparedness and Protection Division (CNPPD), to provide timely information directly to the senior leadership of the Nation's fire and emergency services in order to protect the personnel, facilities, and communications resources of each agency from natural- and manmade disasters.
- USFA produces and distributes weekly INFOGRAMS, bulletins and sensitive information notices for critical infrastructure protection (CIP) to the emergency services sector. In addition, CIP technical assistance is provided to a variety of emergency services agencies that contact the EMR-ISAC.
- In keeping with its role of information sharing, the USFA's EMR-ISAC is a key participant in the Homeland Security Information Network (HSIN) working group that was convened to establish an Emergency Services Sector (ESS) portal. Once established, this portal will serve as another mechanism in which critical information may be shared, chronicled, and warehoused for the ESS.
- USFA produced a 3-part series on CIP. The three 20-minute segments are available on DVD, and have also been aired via satellite over the Preparedness Network (PREPNet) and various Web-based emergency services-related sites to reach a larger audience.

- USFA updated the CIP Job Aid. The Job Aid is a guide to assist leaders of the fire and EMS community with the process of CIP. The document provides a model CIP process, or template for the systematic protection of critical infrastructures, but is not to be used as a CIP training manual or a complete roadmap of procedures. The CIP process described in this document can be adapted easily to assist the infrastructure protection objectives of any community, service, agency, or organization.

### **Geographic Information System (GIS)**

- USFA produced daily maps throughout the hurricane season for potential threats and projected paths of storms. The maps were a valuable tool in monitoring effects on emergency services especially during Southern California wildfires.
- USFA staff became a member of a new committee, the Technical Committee on Data Exchange for the Fire Service, established by the NFPA.

### **Pandemic Influenza**

- USFA staff assisted the National Highway Traffic Safety Administration (NHTSA) Office of Emergency Medical Services (OEMS) in reviewing 12 State and Territories' EMS portions of the *Federal Guidance to Assist States in Improving State-Level Pandemic Influenza Operating Plans*.

### **National Operations Center (NOC)**

The USFA is designated as the lead agency for staffing the Fire Desk at the DHS NOC. The full time staffing of the desk is now into its second year.

- In this capacity, the primary role of the Fire Desk is to provide technical assistance directly in support of the NOC's core missions to provide situational awareness and a common operating picture for the entire Federal Government, and as appropriate State, local, and tribal governments in the event of a natural disaster, act of terrorism, or other manmade disaster; and ensure that critical terrorism and disaster-related information reaches government decisionmakers.
- Having fire service personnel located at the NOC addresses two critical needs: to serve as a subject matter expert for the Nation's fire service that provides valuable first responder insight to decisionmakers in support of the DHS mission, and to act as a vanguard for the fire service in information sharing and intelligence information analysis.
- The Fire Desk has provided valuable expertise into the validity of purported terrorist threats in major cities, built strong professional relationships with DHS leadership and Federal and State agency partners, as well as provided first responder insight to numerous hazardous material incidents, plane crashes, and wildland fires.

## **Emergency Support Function-4 (ESF-4)**

USFA continues to maintain and support its role associated with the ESF-4 Firefighting under the NRF. The U.S. Forest Service is the primary agency for ESF-4. The USFA has been tasked as a support agency under ESF-4, in which the agency will provide subject matter experts/expertise regarding structural-urban-suburban fire and fire service related activities.

- USFA has incorporated and coordinated instruction/use of DHS's HSIN, critical infrastructure assessment, and GIS into ESF-4.
- ESF-4 continues to reinforce the established liaisons with the IAFC, IMSD, the NVFC, National Emergency Management Association/(EMAC), and FEMA Operations Center as well as all members of the emergency support section at the National Response Coordination Center (NRCC).
- USFA conducted its annual in-service session for the USFA staff which provided an opportunity to refresh essential ESF-4 duties at the NRCC, Joint Field Office (JFO), and Regional Response Coordination Center (RRCC) prior to the 2008 hurricane season.
- USFA also participated in several FEMA National Level Exercises over the Spring and Summer of 2008. These venues provided opportunities to enhance overall agency preparedness, exercise continuity of operations, and strengthen working relationships among all Federal partners.
- Issued a revised and updated ESF-4 manual.
- USFA assisted in the development of an interim Field Operations Guide (FOG) that was distributed to all personnel with ESF-4 deployment duties prior to the 2008 disaster season.
- USFA ESF-4 Technical Assistance Program provided several regional deliveries. Sessions were held in Sacramento, California, Chicago, Illinois, Denver, Colorado, and Boston, Massachusetts. These sessions were done in coordination with the U.S. Forest Service.
- During the 2008 season, USFA staff were deployed to California for the wildfires, and to various States for the 2008 hurricanes.

## **National Response Framework (NRF) /Exercise Liaison**

This position was established within the USFA to handle the exercise development and liaison with the NRF-NIMS-AHIMT, CIP, and the Fire Desk at the NOC. This position is also an exercise coordinator to ensure that emergency support functions are included and sufficiently exercised with other Federal agencies and Essential Support Function primaries as they plan and develop exercises to strengthen and evaluate their responsibilities. This process involves input from Regional Interagency Steering Committees and will be available to RRCCs, JFOs, and other operational emergency functions that would benefit from the fire and emergency services involvement.

#### Coordination and liaison activities:

- Ensure exercise alignment, technical assistance, coordination among emergency services, and improve the preparedness level of first responders, and ensure the response coordination teams meet their resource needs.
- Liaison with EMI and IMSD to ensure universal flow of NIMS information and terminology through other program managers.
- Assist in the timely development of a DVD with EMI for updates on the NRF and NIMS. This DVD will be distributed to emergency service organizations and will be integrated into the curriculum at EMI and NFA.
- Liaison with development and coordination of demonstrations and information delivery efforts on the NRF. Work closely with partner organizations to provide the most current information to first responders and emergency management professionals. Coordinate with other directorates within DHS/FEMA and other Federal agencies in exercising, educating, and evaluating the NRF.

#### **Wildland Fire Community**

- USFA continues its partnership with the wildland fire community. USFA is represented on the Wildland Fire Leadership Council (WFLC), a senior-level body that provides policy-level coordination between the Department of Interior, Department of Agriculture Forest Service, State Foresters, and representatives of the National Governors Association with wildland fire responsibility. USFA is a member of the Fire Executive Council, which is a senior executive level body comprised of members from the Department of Interior with wildland fire responsibility and U.S. Forest Service. USFA is a permanent member on the National Multi-Agency Coordination Group (NMAC) providing geographic area priorities, coordination for national shared resources, shortage area resource needs, and incident operations coordination and preparation for fire season operations. USFA serves as a link to address local government fire service issues and resolution at the National Interagency Fire Center (NIFC). USFA serves on several NWCG Working Teams as well as on the parent group. USFA continued the partnership with NWCG to coordinate various Federal and State agencies on a wide variety of public education, training, mitigation and response initiatives that contribute to the reduction of wildland fires and their impact on the American public. Programs are designed, developed, and implemented to provide education and awareness to the general public and local officials with a basic understanding of appropriate wildland urban interface fire prevention and mitigation initiatives for the home and the community at large.
- USFA began foundational efforts with Federal Wildland partners in identifying wildland issues and strategies for the structural fire community with emphasis being placed on wildland urban interface areas. This work has continued through to FY 2009.

- USFA developed a proposal to address the increasing shortage of wildland firefighting resources. The program would be designed to augment multi-disciplined firefighters and leadership to support the wildland and disaster response. The effort would complement different response specialties of a nationally distributed firefighting resource that already performs a daily mission of protecting the lives and property within their jurisdictions and those of surrounding communities.

## Technology

**Program Performance:** USFA provides Federal fire focus for applied research and technology. The selection of specific initiatives is influenced by recommendations from the fire service and emergency response community, constituent associations, building code organizations, the fire protection engineering profession, and private sector and Federal fire researchers. Actual studies and research are accomplished in partnership with a wide range of organizations that share USFA's interest in reducing the Nation's fire loss.

### **National Preparedness Network:**

- In March, USFA's National Preparedness Network (PREPnet) conducted a simultaneous interactive video teleconference, Webcast, and satellite television broadcast from its studio in Emmitsburg that provided specific and helpful information on the newly approved NRF to first responders, emergency managers, and the public at large.

### **USFA and National Institute of Standards and Technology (NIST):**

- **Thermal Imaging Cameras:** The final report resulting from research with NIST on Thermal Imaging Camera Technology entitled, *Evaluating the Performance of First Responder Use of Thermal Imaging Systems Technology—Reduced and Full-Scale Burn Experiments*, was released in July 2008. The performance metrics and standard testing protocols developed during this research have been incorporated into and form the new NFPA *Standard for Thermal Imagers for the Fire Service* (NFPA 1801).
- **Novel Fire Suppression Units for Residential Use:** During FY 2008, work continued on this initiative with NIST to develop a test method to examine the performance of automatic fire suppression and control systems for kitchen stovetop residential applications. Novel agents such as solid-propellant-based gas generators, foams, water-based agents and aerosols in automatic self-contained fire suppression systems for residential use will be examined. Suppression experiments are being conducted with prototype residential fire suppression devices and novel devices that have potential for use on stovetop fires.
- **Research on Multi-Sensor Smoke Detector Capabilities and Test Standards:** The objective of this initiative with NIST is to develop design requirements and a test standard for a detector that would minimize false alarms due to steam and nonhazardous smoke (i.e. from normal cooking) and dust. The NIST fire emulator/detector evaluator (FE/DE) was designed to provide a way to test multisensor fire detectors and provide a performance assessment against benchmark fire scenarios and nuisance alarms.
- **Hose Streams:** Determining the effectiveness of a range of water application methods could have an impact on the tactical decisions, equipment choices, and water supply requirements that affect fire departments across the country. During the first two phases of this project, two types of hose streams—straight stream and fog—were characterized in the open and in enclosures using parameters such as flow rate, reach, and pattern. During FY 2008, work on

Phase III of this project continued. During this final phase, the suppression results from Phase I and Phase II are being integrated into a predictive suppression submodel that could be used with a fire model, such as NIST's Fire Dynamics Simulator (FDS).

- **Computer-Based Firefighter Trainer:** The objective of this project is to develop a virtual reality-type computer-based firefighting training tool to improve training opportunities while lowering the cost and risk of death and injury. During FY 2008, Phase I experimental work in firefighting training facilities and comparison of the data to computer models came to a completion. In addition, Phase II began, using information received in Phase I to develop an interactive computerized trainer module illustrating various venting strategies and suppression effectiveness for a single-family residential structure.
- **Examining Firefighting Tactics under Wind Driven Conditions:** During FY 2008 work continued on this project, which will improve the safety of firefighters and building occupants by gaining a better understanding of firefighting tactics, including structural ventilation and suppression, and the dynamics of fire phenomena and prediction of fire intensity and growth under wind driven conditions. Specifically, 8 full-scale laboratory experiments as well as 12 field experiments, conducted in a 7-story building on Governor's Island in New York Harbor, have been completed and analyzed. A final report and accompanying DVD presenting the project's findings are expected in FY 2009.
- **Structural Collapse Prediction Technology:** Initiated follow-on research to the initial study with NIST on developing technology to predict collapse that will alert emergency responders allowing them time to exit a structure. The FY 2008 research effort focused on collapse prediction technology for smaller lightweight construction such as single family homes that has caused numerous firefighter line-of-duty injuries and fatalities.
- **Evaluation of Structural Ventilation Techniques:** USFA's Media Center produced a DVD that includes a presentation video explaining Positive Pressure Ventilation (PPV), examines the results of NIST's PPV research conducted in previous years, and highlights the use of PPV tactics in high-rise buildings. In addition, the DVD contains multiple NIST reports on PPV that take engineering principles and apply them to fire service PPV tactics in order to improve firefighter safety. More than 17,000 copies of the DVD have been made available and distributed since it was released in April 2008. USFA has received requests for copies of the DVD from all 50 States and 11 other countries.
- **Impact of a Residential Sprinkler on a Dry Tree Fire:** In May 2008, USFA released a report entitled, *Impact of a Residential Sprinkler on the Heat Release Rate of a Christmas Tree Fire*, and videos of the project's fire experiments comparing a dry Christmas tree fire in rooms with and without a sprinkler, and the ignition of a dry tree versus a properly maintained tree. The report and videos demonstrate that even under conditions of extreme fire growth, a single sprinkler was able to prevent flashover, control the tree fire, and limit the spread of fire to other objects. They also demonstrate the importance of retaining high moisture content in the needles of a tree, which will limit accidental ignition and prevent rapid flame spread.

- **Technology Transfer:** Over 27,000 CDs and DVDs documenting current research developments and findings were delivered for technology transfer purposes.

**USFA and the U.S. Department of Justice (DOJ):** USFA continued its Interagency Agreement with the DOJ, Office of Justice Programs, National Institute of Justice (NIJ). NIJ continued to provide funding and support to USFA's long-standing program efforts in emergency vehicle safety, as well as roadway operations safety for firefighters and law enforcement. NIJ and USFA have related missions to enhance emergency responder safety and health. Program efforts supported by this partnership include

- **Roadway Safety Outreach:** USFA continued partnership with the Cumberland Valley Volunteer Firemen's Association (CVVFA) in support of educational outreach efforts on roadway operations for the fire service, law enforcement, and other emergency responders through the Web site (<http://www.respondersafety.com>). A key focus of the 2008 project was the study of personal PPE for emergency responders operating on the highway, including the new American National Standards Institute (ANSI) 207 public safety retroreflective highway traffic safety vest specifically designed for their needs. This effort is studying the feasibility of applying technologies to improve highway incident management and responder safety.
- **Research on Emergency Vehicle Warning Lighting Systems:** Completed study of emergency warning lights with the Society of Automotive Engineers (SAE) to include issues in this area of interest to law enforcement. In FY 2008 work focused on light-emitting diode (LED) systems and the impact of color and intensity in both day and night conditions. In October 2008, USFA issued the following report from this phase of the study—*Effects of Warning Color and Intensity on Driver Vision*.
- **Emergency Vehicle Visibility Study:** Continued study with the IFSTA on emergency vehicle visibility that examines striping, retroreflectivity, and color contrast issues of fire apparatus, law enforcement vehicles, and ambulances. This study is also examining international best practices in emergency vehicle visibility. The information from this research will be provided to organizations that establish national level standards. This work will complement the study of emergency warning lighting systems.
- **Emergency Vehicle and Roadway Safety Best Practices:** Initiated project partnership with the IAFF in the development and demonstration of best practices for emergency vehicle and roadway operations safety in the emergency services. This project effort is aimed to enhance the development of training, advanced safety practices, and technology that will permit nationwide sharing of lessons learned among all entities of public safety—law enforcement and the fire service alike that will enable them to enhance emergency vehicle and roadway operations safety. This study will use past programs developed by USFA and the IAFF for the fire service and expand them for use by the law enforcement and other emergency responders who also are impacted by line-of-duty deaths and injuries from emergency vehicle crashes, and being struck by vehicles while operating on the roadway.

**USFA and the Department of Transportation (DOT):** Continued the partnership with DOT-Federal Highway Administration (FHWA) to enhance roadway safety and operational effectiveness for emergency responders. Current collaborative studies and projects include

- **Study of Traffic Incident Management Systems (TIMS):** With partial funding provided by DOT-FHWA, USFA was able to complete a study and release a report in April 2008 titled, *Traffic Incident Management Systems (TIMS)*, detailing the information and findings. The TIMS report provides guidance to allow local level fire departments to manage roadway incident scenes more effectively using the ICS, allowing them to easily implement the requirements of the DOT Manual of Uniform Traffic Control Devices (MUTCD) into their Standard Operating Procedures (SOP), and include sample guidelines, which can then be adopted easily by fire departments.

**USFA and the IAFF:**

- USFA completed the second phase of a partnership with IAFF to study the development of effective risk management models to prevent firefighter line-of-duty injuries. This study compiled and analyzed 2 years of data from nine geographically diverse metropolitan fire departments to identify and quantify the major factors that contribute to firefighter line-of-duty injuries. Resulting from this study, the IAFF released the report in August 2008—*Contributing Factors to Firefighter Line of Duty Injury in Metropolitan Fire Departments in the United States*.
- Through its partnership with the IAFF, USFA with funding from DHS Safety Community (SAFECOM), completed the study to update and revise the decade old USFA *Fire Department Communications Manual*. This soon to be released report, *Voice Radio Communications Guide for the Fire Service*, discusses both fire-ground communications operability as well as technology interoperability.

**USFA and the IAFC:**

- USFA and IAFC completed its partnership to support the expansion of use of the Fire Service Joint Labor-Management Wellness-Fitness Initiative to additional fire departments. This project supported the development of a soon to be released implementation guide for a new edition of IAFF/IAFC *Fire Service Joint Labor Management Wellness-Fitness Initiative*. The goal of this project is to reduce the number of on-duty firefighter deaths due to heart attacks and stress.

**USFA and the NFPA:**

- **Behavioral Mitigation of Cooking Fires**—The final report, *Behavioral Mitigation of Cooking Fires Through Strategies Based on Statistical Analysis*, and accompanying educational tools were made available on USFA's Web site in November 2007.
- **Behavioral Mitigation of Smoking Fires**—Resulting from a joint study with the NFPA, USFA released a comprehensive report in December 2007 to examine what can be done to

### **USFA and the CVVFA:**

- USFA, with funding from the DHS Fire Corps Program, completed its work with the CVVFA in the initial study of effective recruitment and retention methods for Fire Service Traffic Control Personnel, referred to in some areas of the United States as Fire Police. It examined the recruitment of nonactive fire service response support personnel and citizen volunteers, especially those who would volunteer under the Fire Corps program, as well as effective retention of members currently serving in this role.
- USFA also completed its roadway safety partnership with funding from DHS Fire Corps that examined roadway operations safety issues, and developed safety programs for Community Emergency Response Teams (CERT) volunteering in traffic control duties in support of fire and police departments as well as other emergency service.

### **USFA and the NVFC:**

- USFA completed a study with the NVFC and released a report in March 2008 on *Emerging Health and Safety Issues in the Volunteer Fire Service*. The study examined initiatives, programs, and strategies for reducing on-duty injuries and fatalities among volunteer firefighters. The volunteer fire service has distinct issues related to health and safety such as time commitment availability, long distances away from training facilities, the use of older equipment, rural operations, declining number of volunteers, and the wide age range of volunteer firefighters.

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## Data Collection

**Program Performance:** The information services and data analysis activities of the NFDC address the Congressional requirement for USFA to gather, analyze and disseminate information related to the prevention, occurrence, control and results of fires of all types. For over 25 years, USFA data have defined the national fire problem in terms of the number, types, and causes of fires and their impact on the American public.

- USFA held the second biennial *National Fire Information Council Training* (course code R490) which was attended by approximately 50 National Fire Incident Reporting System (NFIRS) State and Metro Program Managers who are responsible for the management and administration of NFIRS at the State and metropolitan levels.
- USFA posted on the USFA Web site its report, *Firefighter Fatalities in the United States-2007*, and posts monthly “provisional” firefighter fatality summary statistic reports for the current year.
- USFA processed 20,723 orders for 1.5 million publications through the USFA Publications Center. Eighty-three percent of the 495 items in the USFA Publications Catalog are available online. USFA Prepared 122 new publications and factsheets for print and/or Web publishing and converted 117 Technical Reports to Section 508-compliant PDF files.
- The USFA Web site received 9.3 million visits (16-percent increase), 70 million page views (80-percent increase), and 232 million hits (100 percent increase).
- Specific enhancements to the Web site include implementation of GovDelivery for e-mail subscriptions, resulting in over 7 million e-mail bulletins sent to more than 70,000 unique subscribers; podcasts published to the site and iTunes; a monthly feature—Focus on Fire Safety—containing seasonal fire prevention messages for citizens; a section supporting the Smoking & Home Fires prevention campaign; and Web applications to support the submission of course bids from NFA instructors and the collection of long-term course evaluations from NFA students.
- Working with the CDC and Prevention, USFA redesigned FireSafety.gov and added additional resources for the Media and Public Information Officers to include background footage and a high-resolution image gallery depicting fire-safe behaviors.
- The LRC staff averaged 5,500 visits and over 81,000 Web site hits per month. The staff responded to over 10,100 requests for information, added 6,912 new records to the Online Card Catalog, and circulated over 22,002 items. The LRC also loaned via Interlibrary Loan, approximately 1,735 items to libraries in the U.S. and around the world. The LRC indexed some 4,500 journal articles on topics related to fire prevention and preparedness, emergency response, disaster planning, homeland security and emergency management and more. This ongoing effort serves to make the LRC online catalog the most comprehensive guide to periodical literature on fire and emergency management topics in the United States.

- NFIRS now has over 21,000 fire departments in 49 States and the District of Columbia reporting, as well as Department of Defense Fire Departments, Tribal Authority departments, and fire departments in Guam and Puerto Rico. More than 16 million incidents are reported annually.
- The NFIRS Support Center responded to 1,723 requests for assistance with the NFIRS. Requests for assistance were received from all 50 States, the District of Columbia, Guam, U.S. Virgin Islands and Native American fire departments.
- USFA provided NFIRS technical assistance to new NFIRS State Program Managers in Arizona and Kentucky during which they were provided the knowledge necessary to manage effectively and administer at the State level.
- The National Fire Department Census now has 26,032 fire departments registered. In FY 2008, approximately 5,200 registered departments were contacted for updates.
- Seven topical reports were completed and posted to the USFA Web site:
  - *Civilian Injuries in Residential Buildings;*
  - *Residential Building Electrical Fires;*
  - *Fire Risk in 2004;*
  - *Fire Risk to Older Adults in 2004;*
  - *Fire Risk to Children in 2004;*
  - *Fire Department Overall Run Profile; and*
  - *Fire Department Fire Run Profile.*
- *Fire-Related Firefighter Injuries in 2004* report was completed.
- The Media Production Center (MPC) completed 179 instructional and informational media projects, developed an interactive DVD on High Rise Positive Pressure Ventilation for the NIST, and provided conference support for EFOP, FESHE, EMI Higher Ed, and National Training and Exercise Conference (NTEC) as well as external conferences.
- The National Master List (NML) of Fire-Safe Hotels and Motels now has 38,780 properties. In FY 2008, 1,381 properties applied for a FEMA ID, and 1,377 properties were approved.

## **State Profiles**

The following section provides State-specific statistical information related to the participation in USFA programs as well as describes the opportunities and partnerships between the USFA and each State in Fiscal Year 2008.

### **ALABAMA**

In FY 2008:

- 82 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 2,899 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 708 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.
- One firefighter was reported as an on-duty fatality.

Since 1982, more than 31,000 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 50 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 783 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Alabama is a participating NFIRS State, collecting, validating, and automating data from the fire departments across the State and forwarding the aggregated data to the USFA; thereby, contributing to the national fire incident database.

## ALASKA

In FY 2008:

- 82 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 367 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 241 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.

Since 1982, more than 3,320 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, three firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 141 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Alaska is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

## ARIZONA

In FY 2008:

- 140 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 453 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 661 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.
- One firefighter was reported as an on-duty fatality.

Since 1982, more than 10,254 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 32 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 242 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Arizona is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

Deputy Chief Larry Rooney, Peoria Township Fire Department, received a fellowship to attend the Senior Executives in State & Local Government Program at the John F. Kennedy School of Government, Harvard University. This 19-day program included State and local government leaders from across the country. The International Association of Fire Chiefs (IAFC), International Fire Service Training Association (IFSTA), National Fire Protection Association (NFPA), and USFA funded the fellowships. USFA administered the selection process.

Daniel Uthe, Tucson Fire Department, served as a member of the National Fire Prevention Professional Development Committee. The Committee works with the National Fire Science Curriculum Committee, a component of the Fire and Emergency Services Higher Education (FESHE) Program, in the development of model curricula for fire prevention personnel.

Phil Mele, Arizona State Fire Marshal's Office, served as the Region IX Training Resources and Data Exchange (TRADE) State Co-Chair.

John Rowlinson, Arizona State Fire Marshal's Office, served as the Region IX PARADE State Co-Chair. Howard Munding, City of Peoria, served as the Region IX PARADE International Fire Marshal's Association representative. Fire Marshal Jim Ford, Scottsdale Fire Department, served as the Region IX PARADE Metro Co-Chair.

Adam Thiel, Good Year Fire Department, served as a member of the FESHE Conference Steering Committee. This Committee assists in the development of the annual FESHE Conference agenda and develops model solutions in the area of professional development.

## ARKANSAS

In FY 2008:

- 44 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 2,887 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 41 personnel from Arkansas attended the Arkansas State Weekend Program.
- 595 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.
- One firefighter was reported as an on-duty fatality.

Since 1982, more than 23,462 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 32 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 660 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Arkansas is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

## CALIFORNIA

In FY 2008:

- 250 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 409 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 1,856 personnel completed NFA self-study programs.
- Eight firefighters were reported as on-duty fatalities.

Since 1982, more than 17,317 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 173 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 831 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): California is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

Ralph DeLaOssa, Long Beach City College, served as the Chair for the National Fire Science Degree Program Committee (associate's group). This Committee develops model fire science courses for adoption by associate's degree programs. Terry Koeper, Crafton Hills College, served as a member of this Committee as the Coordinating Liaison.

Chief Marc Revere, Novato Fire Department received a fellowship to attend the Senior Executives in State & Local Government Program at the John F. Kennedy School of Government, Harvard University. This 19-day program included State and local government leaders from across the country. The International Association of Fire Chiefs (IAFC), International Fire Service Training Association (IFSTA), National Fire Protection Association (NFPA), and USFA funded the fellowships. USFA administered the selection process.

Sebastian Wong, Las Positas College, served as a member of the National EMS Management Degree Program Committee.

## COLORADO

In FY 2008:

- 167 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 308 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 480 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.
- Four firefighters were reported as on-duty fatalities.

Since 1982, more than 14,419 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 34 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 321 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Colorado is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

David Abbink, West Metro Fire District, served as the Region VIII Prevention Advocacy Resources and Data Exchange (PARADE) Metro Co-Chair.

## CONNECTICUT

In FY 2008:

- 65 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 1,005 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 196 personnel attended the Connecticut State Weekend Program held on the NETC campus.
- 200 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.

Since 1982, more than 36,594 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 60 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 243 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Connecticut is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

Dr. Sandy Bogucki, Yale University School of Medicine, served as a member of the NFA Board of Visitors.

Gary Santoro, Wethersfield Fire Department, served as the Region I Prevention Advocacy Resources and Data Exchange (PARADE) International Fire Marshal's Association (IFMA) Representative.

## DELAWARE

In FY 2008:

- 21 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 227 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 60 personnel attended the Delaware State Weekend Program held on the NETC campus.
- 170 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.

Since 1982, more than 2,112 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, eight firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 57 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Delaware is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

## **DISTRICT OF COLUMBIA**

In FY 2008:

- 32 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 60 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- Two personnel from the District of Columbia participated in State Weekend Programs held on the NETC campus.
- 41 personnel completed NFA self-study programs.

Since 1982, more than 1,038 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, eight firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, three departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): The District of Columbia participates in NFIRS, collecting, validating, and automating data from the department and forwarding the aggregated data to the USFA.

Michael Ward, George Washington University, served as Chair of the National EMS Management Degree Program Committee. Erik Gaull, NFA Contract Instructor, served as a member of this committee.

## FLORIDA

In FY 2008:

- 325 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 2,242 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 50 personnel attended the Florida State Weekend Program held on the NETC campus.
- 2,878 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.
- Three firefighters were reported as on-duty fatalities.

Since 1982, more than 29,927 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 83 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 459 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Florida is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

Battalion Commander David Kilbury, City of Cape Coral Fire Department, received the Executive Fire Officer Program (EFOP) Outstanding Applied Research Award for his work entitled *The Damage Assessment Process in Cape Coral, Florida Following Hurricane Charley*. The research was written for the NFA's *Executive Analysis of Fire Service Operations in Emergency Management* course.

Captain Steven Knight, City of St. Petersburg Fire Department, received the EFOP Applied Research Award for his work entitled *Sink or Swim: Is St. Petersburg Fire & Rescue Doing All They Can to Prevent Drowning?* The research was written for the NFA's *Leading Community Risk Reduction* course.

Barbara Klingensmith, Florida State Fire College, served as the Coordinating Liaison for the National Fire Science Degree Program Committee (bachelor's group). This Committee addresses issues of undergraduate preparation for graduate degree programs and develops models for advanced degrees in fire and emergency services concentrations. Charles Smeby, University of Florida, also served as a member of this Committee.

Gerri Penney, Palm Beach County Fire Rescue, served as Chair of the National Fire Prevention Professional Development Committee. James Goodloe, Florida Division of State Fire Marshal, served as a member of this committee as well. The Committee works with the National Fire Science Degree Program Committee, a component of FESHE, in the development of model curricula for fire prevention personnel.

**FLORIDA (continued):**

James Goodloe served as the Region IV PARADE State Co-Chair. Deputy Chief Steven Peavey, City of Altamonte Springs, served as the Region IV PARADE International Fire Marshal's Association Representative Co-Chair.

Jeff Lindsey, Estero Fire Rescue, served as a member of the National EMS Management Degree Program Committee.

Battalion Chief Vicki Sheppard, Palm Beach County Fire & Rescue, served as the Region IV Training Resources and Data Exchange (TRADE) Metro Co-Chair.

Battalion Chief William Bingham of the City of Boynton Beach Fire Department, Chief David James of the City of Delray Beach Fire Department, and Assistant Chief Michael Randolph of the City of Gainesville Fire Department each received a fellowship to attend the Senior Executives in State & Local Government Program at the John F. Kennedy School of Government, Harvard University. This 19-day program included State and local government leaders from across the country. The International Association of Fire Chiefs (IAFC), International Fire Service Training Association (IFSTA), National Fire Protection Association (NFPA), and USFA funded the fellowships. USFA administered the selection process.

## GEORGIA

In FY 2008:

- 96 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 5,063 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 57 personnel attended the Georgia State Weekend Program held on the NETC Campus.
- 1,139 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.
- One firefighter was reported as an on-duty fatality.

Since 1982, more than 39,484 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 59 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 454 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Georgia is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

Chief Kelvin Cochran, Atlanta Fire Department, served as a member of the NFA Board of Visitors.

## HAWAII

In FY 2008:

- 37 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 486 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 91 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.

Since 1982, more than 6,430 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, five firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 11 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Hawaii is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

## IDAHO

In FY 2008:

- 57 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 529 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 171 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.

Since 1982, more than 7,197 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 31 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 177 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Idaho is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

Chief Mark Wendelsdorf, City of Caldwell Fire Department received a fellowship to attend the Senior Executives in State & Local Government Program at the John F. Kennedy School of Government, Harvard University. This 19-day program included State and local government leaders from across the country. The International Association of Fire Chiefs (IAFC), International Fire Service Training Association (IFSTA), National Fire Protection Association (NFPA), and USFA funded the fellowships. USFA administered the selection process.

## ILLINOIS

In FY 2008:

- 142 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 8,951 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 649 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.
- Five firefighters were reported as on-duty fatalities.

Since 1982, more than 33,961 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 138 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 1,066 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Illinois is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

Gary Kistner, Southern Illinois University, College of Applied Sciences and Arts, served as Chair of the National Fire Science Degree Program Committee (bachelor's group). This Committee addresses issues of undergraduate preparation for graduate degree programs and develops models for advanced degrees in fire and emergency services concentrations.

## INDIANA

In FY 2008:

- 68 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 1,216 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 120 personnel attended the Indiana State Weekend Program held on the NETC campus.
- 707 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.
- Two firefighters were reported as on-duty fatalities.

Since 1982, more than 33,214 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 64 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 748 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Indiana is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

## IOWA

In FY 2008:

- 67 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 422 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 227 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.

Since 1982, more than 4,832 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 28 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 705 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Iowa is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

Fire Marshal Jeff Hutcheson, Council Bluffs Fire Department, served as the Region VII Prevention Advocacy Resources and Data Exchange International Fire Marshal's Association Representative Co-Chair.

Randy Novak, Iowa Fire Service Training Bureau, served as the Region VII Training Resources and Data Exchange (TRADE) State Co-Chair.

## KANSAS

In FY 2008:

- 112 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 989 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 334 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.
- Two firefighters were reported as on-duty fatalities.

Since 1982, more than 29,291 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 39 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 463 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Kansas is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

## KENTUCKY

In FY 2008:

- 64 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 1,670 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 439 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.
- One firefighter was reported as an on-duty fatality.

Since 1982, more than 29,515 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 63 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 669 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Kentucky is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

Larry Collins, Eastern Kentucky University, served as the Chair for the FESHE Steering Committee. This Committee assists in the development of the annual FESHE conference agenda and develops model solutions in the area of professional development.

## LOUISIANA

In FY 2008:

- 95 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 1,416 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 488 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.
- Two firefighters were reported as on-duty fatalities.

Since 1982, more than 18,845 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 31 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 355 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Louisiana is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

## MAINE

In FY 2008:

- 38 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 365 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 112 personnel attended the Maine State Weekend Program held on the NETC campus.
- 156 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.

Since 1982, more than 11,064 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 19 firefighters have died in the line- of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 338 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Maine is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

Edward R. Marks, from the Maine Fire Training and Education Department, served as the Region I Training Resources and Data Exchange (TRADE) State Co-Chair.

## MARYLAND

In FY 2008:

- 161 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 5,247 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 167 personnel attended the Maryland State Weekend Program held on the NETC campus.
- 2,001 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.
- Two firefighters were reported as on-duty fatalities.

Since 1982, more than 43,723 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 66 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 258 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Maryland is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

Battalion Chief Michael Robinson, Baltimore County Fire Department, served as the Region III Training Resources and Data Exchange (TRADE) Metro Co-Chair.

W. Faron Taylor, Maryland State Fire Marshals Office, served as a member of the National Fire Prevention Professional Development Committee. The Committee works with the National Fire Science Curriculum Committee, a component of the Fire and Emergency Services Higher Education (FESHE) Program, in the development of model curricula for fire prevention personnel.

Robert Ryan, City of College Park, served as the Region III Prevention Advocacy Resources and Data Exchange (PARADE) International Fire Marshal's Association (IFMA) Representative Co-Chair.

Bruce Walz and Stephen Dean, University of Maryland Baltimore County, and Angel Burba, Howard County Community College, served as members of the National EMS Management Degree Program Committee.

Robert Cumberland, Cumberland Valley Volunteer Fireman's Association, served as a member of the NFA Board of Visitors.

## MASSACHUSETTS

In FY 2008:

- 77 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 264 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 16 personnel attended the Massachusetts State Weekend Program held on the NETC campus.
- 230 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.

Since 1982, more than 20,410 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 72 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 355 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Massachusetts is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

John Sullivan, Worcester Fire Department, served as a member of the National Fire Science Degree Program Committee (associate's group). This Committee develops model fire science courses for adoption by associate degree programs.

Joseph Guarnera, Anna Maria College, served as a member of the National Fire Science Degree Program Committee (bachelor's group). This Committee addresses issues of undergraduate preparation for graduate degree programs and develops models for advanced degrees in fire and emergency services concentrations.

Gary Colonna, National Fire Protection Association, served as a member of the National Industrial Fire Safety Professional Development Committee.

## MICHIGAN

In FY 2008:

- 118 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 3,459 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 72 personnel attended the Michigan State Weekend Program held on the NETC campus.
- 582 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.
- Three firefighters were reported as on-duty fatalities.

Since 1982, more than 76,280 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 71 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 934 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Michigan is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

Research on Emergency Vehicle Warning Lighting Systems: USFA Completed study of emergency warning lights with the Society of Automotive Engineers (SAE), to include issues in this area of interest to law enforcement. The SAE used the University of Michigan Transportation Research Institute (UMTRI) to perform roadway experiments in support of this lighting study. In FY 2008, work focused on light-emitting diode (LED) systems and the impact of color and intensity in both day and night conditions. The following report was issued from this phase of the study—*Effects of Warning Color and Intensity on Driver Vision*.

Chief Ronald Farr, Kalamazoo Township Fire Department, served as the Region V Prevention Advocacy Resources and Data Exchange (PARADE) International Fire Marshal's Association (IFMA) Representative Co-Chair.

Michael Greis, Michigan Fire Fighters Training Council, served as the Region V Training Resources and Data Exchange (TRADE) State Co-Chair.

## MINNESOTA

In FY 2008:

- 81 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 1,027 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 828 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.
- One firefighter was reported as an on-duty fatality.

Since 1982, more than 23,379 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 30 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 697 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Minnesota is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

Don Beckering, Minnesota State Colleges and Universities, served as a member of the FESHE Steering Committee. This Committee assists in the development of the annual FESHE conference agenda and develops model solutions in the area of professional development.

## MISSISSIPPI

In FY 2008:

- 44 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 250 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 32 personnel attended the Mississippi State Weekend Program held on the NETC campus.
- 430 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.
- Two firefighters were reported as on-duty fatalities.

Since 1982, more than 9,886 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 49 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 382 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Mississippi is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

## MISSOURI

In FY 2008:

- 116 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 2,036 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- One person from Missouri attended a State Weekend Program held on the Emmitsburg, Maryland campus.
- 497 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.
- Five firefighters were reported as on-duty fatalities.

Since 1982, more than 27,357 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 69 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 720 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Missouri is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

Mark Kilby, Missouri Division of Fire Safety, served as the Region VII PARADE State Co-Chair. Charles Coyle, St. Louis Fire Department, served as the Region VII PARADE Metro Co-Chair.

David Becker, International Association of Fire Chiefs (IAFC), served as a member of the National EMS Management Degree Program Committee.

## MONTANA

In FY 2008:

- 52 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 1,093 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 345 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.
- One firefighter was reported as an on-duty fatality.

Since 1982, more than 10,469 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 16 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 259 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Montana is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

## NEBRASKA

In FY 2008:

- 34 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 585 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 312 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.
- One firefighter was reported as an on-duty fatality.

Since 1982, more than 13,058 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 22 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 363 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Nebraska is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

Kim McKay, Lincoln Fire Department, served as the Region VII Training Resources and Data Exchange (TRADE) Metro Co-Chair.

## NEVADA

In FY 2008:

- 52 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 406 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 170 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.

Since 1982, more than 8,036 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 14 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 85 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Nevada is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

Bruce Evans, Community College of Southern Nevada, served as the Vice Chair of the National EMS Management Degree Program Committee.

Chief Al Alcalde, Clark County Fire Department, served as the Region IX Training Resources and Data Exchange (TRADE) Metro Co-Chair.

## NEW HAMPSHIRE

In FY 2008:

- 72 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 500 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 70 personnel attended the New Hampshire State Weekend Program held on the NETC campus.
- 386 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.

Since 1982, more than 3,805 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 15 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 209 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): New Hampshire is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

Robert Field, Manchester Fire Department, served as the Region I Training Resources and Data Exchange (TRADE) Metro Co-Chair.

## NEW JERSEY

In FY 2008:

- 57 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 729 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 207 personnel attended the New Jersey State Weekend Program held on the NETC campus.
- 1,130 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.
- Three firefighters were reported as on-duty fatalities.

Since 1982, more than 37,410 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 122 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 688 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): New Jersey is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

Ronald Kanterman, Merck Manufacturing, served as the Chair for the National Industrial Fire Safety Professional Development Committee.

## NEW MEXICO

In FY 2008:

- 43 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 446 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 244 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.
- One firefighter was reported as an on-duty fatality.

Since 1982, more than 6,469 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 28 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 238 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): New Mexico is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

Larry Perez, Dona Ana Branch Community College, served as a member of the National Fire Science Degree Program Committee (associate's group). This Committee develops model fire science courses for adoption by associate degree programs.

## NEW YORK

In FY 2008:

- 86 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 3,072 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 234 personnel attended the New York State Weekend Program held on the NETC campus.
- 1,374 personnel completed NFA self-study programs.
- Three firefighters were reported as on-duty fatalities.

Since 1982, more than 152,144 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 666 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 1,605 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): New York is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

Deputy Chief William Mitson, Syracuse Fire Department, served as the Region II Training Resources and Data Exchange (TRADE) Metro Co-Chair. Andrew Dickinson, New York Fire Prevention & Control, served as the Region II TRADE State Co-Chair.

Deputy Fire Marshal William Timmons, Ridge Road Fire District, served as the Region II PARADE International Fire Marshal's Association Representative Co-Chair. Fire Marshal Robert Drexler, Monroe County Fire Bureau, served as the Region II PARADE Metro Co-Chair. Chief Paul Martin, New York Fire Prevention & Control, served as the Region II PARADE State Co-Chair.

## NORTH CAROLINA

In FY 2008:

- 204 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 3,047 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 239 personnel attended the North Carolina State Weekend Program held on the NETC campus.
- 1,612 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.
- 10 firefighters were reported as on-duty fatalities.

Since 1982, more than 38,539 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 87 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 984 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): North Carolina is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

Steve Sloan, North Carolina Fire Marshal's Office, served as the Region IV Training Resources and Data Exchange State Co-Chair.

Chief Donald Oliver, Wilson Fire/Rescue Services, served as a member of the NFA Board of Visitors.

Larry Stanford, Raleigh Fire Department, served as the Region IV Prevention Advocacy Resources and Data Exchange (PARADE) Metro Co-Chair.

## **NORTH DAKOTA**

In FY 2008:

- 18 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 75 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 102 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.

Since 1982, more than 6,334 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, five firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 298 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): North Dakota is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

## OHIO

In FY 2008:

- 137 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 611 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 180 personnel attended the Ohio State Weekend Program held on the NETC campus.
- 952 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.
- Five firefighters were reported as on-duty fatalities.

Since 1982, more than 130,877 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 100 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 1,125 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Ohio is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

Battalion Chief Robert Babb, Columbus Division of Fire Training Bureau, served as the Region V Training Resources and Data Exchange (TRADE) Metro Co-Chair.

Assistant Chief Marcus Moore, Ohio State Fire Marshal's Office, served as the Region V Prevention Advocacy Resources and Data Exchange (PARADE) State Co-Chair. Frank Prather, Cincinnati Fire Department, served as the Region V PARADE Metro Co-Chair.

Jack Reall, Columbus Firefighters Union, served as a member of the NFA Board of Visitors.

Harry Burdick, Marion City/County EMA served as a member of the National Industrial Fire Safety Professional Development Committee.

Chief David Fulmer, Miami Township Fire Department, received a fellowship to attend the Senior Executives in State & Local Government Program at the John F. Kennedy School of Government, Harvard University. This 19-day program included State and local government leaders from across the country. The International Association of Fire Chiefs (IAFC), International Fire Service Training Association (IFSTA), National Fire Protection Association (NFPA), and USFA funded the fellowships. USFA administered the selection process.

## OKLAHOMA

In FY 2008:

- 86 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 430 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- One person from Oklahoma attended a State Weekend Program held on the Emmitsburg campus.
- 413 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.
- Two firefighters were reported as on-duty fatalities.

Since 1982, more than 21,245 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 42 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 700 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Oklahoma is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

Study of Traffic Incident Management Systems (TIMS). With partial funding provided by DOT FHWA for a study on Traffic Incident Management, the International Fire Service Training Association (IFSTA) released the USFA report, *Traffic Incident Management Systems (TIMS)* detailing information and findings from this completed study. The IFSTA is part of the Oklahoma State University (OSU). The TIMS report provides guidance to allow local level fire departments to more effectively manage roadway incident scenes using the Incident Command System, allowing them to more easily implement the requirements of the U.S. DOT Manual of Uniform Traffic Control Devices (MUTCD) into their Standard Operating Procedures (SOPs), and provides sample guidelines and SOPs that can be adopted easily by fire departments.

Emergency Vehicle Visibility Study—OSU through continued study with the IFSTA is conducting research on emergency vehicle visibility that examines striping, retroreflectivity, and color contrast issues of fire apparatus, law enforcement vehicles, and ambulances. This study is also examining international best practices in emergency vehicle visibility. The information from this research would be provided to national level standards setting organizations. This work will complement the study of emergency warning lighting systems.

**OKLAHOMA (continued)**

Robert Doke, Oklahoma State Fire Marshal, served as the Region VI Prevention Advocacy Resources and Data Exchange (PARADE) State Co-Chair. Major Mike Barnes, Edmond Fire Prevention Office, served as the Region VI PARADE International Fire Marshal's Association (IFMA) Representative Co-Chair.

Chris Neal, IFSTA, served as a member of the NFA Board of Visitors.

## OREGON

In FY 2008:

- 122 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 1,287 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 374 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.
- Nine firefighters were reported as on-duty fatalities.

Since 1982, more than 15,685 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 56 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 293 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Oregon is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

LaRon Tolley, Western Oregon University, served as a member of the National Fire Science Degree Program Committee (bachelor's group). This Committee addresses issues of undergraduate preparation for graduate degree programs and develops models for advanced degrees in fire and emergency services concentrations.

Johnny Mack, Chemeketa Community College, served as a member of the FESHE Steering Committee. This Committee assists in the development of the annual FESHE conference agenda and develops model solutions in the area of professional development.

Nancy Orr, Oregon State Fire Marshal's Office, served as the Region X Prevention Advocacy Resources and Data Exchange (PARADE) State Co-Chair.

## PENNSYLVANIA

In FY 2008:

- 180 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 1,707 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 231 personnel attended the Pennsylvania State Weekend Program held on the NETC campus.
- 1,831 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.
- 12 firefighters were reported as on-duty fatalities.

Since 1982, more than 103,196 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 246 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 1,775 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Pennsylvania is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

Dr. Robert Fleming, Rowan University served as the Chairman for the NFA Board of Visitors.

Bob Seitz, University of Pittsburgh, served as a member of the National EMS Management Degree Program Committee.

## **RHODE ISLAND**

In FY 2008:

- 24 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 237 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 70 personnel attended the Rhode Island State Weekend Program held on the Emmitsburg campus.
- 126 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.
- One firefighter was reported as an on-duty fatality.

Since 1982, more than 3,357 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, nine firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 74 departments have registered with the National Fire Department Census.

Vincent Quinterno, Rhode Island State Fire Marshal's Office, served as the Region I PARADE State Co-Chair. Antiliano Estrella, Providence Fire Department, served as the Region I PARADE Metro Co-Chair.

## SOUTH CAROLINA

In FY 2008:

- 102 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 3,702 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 109 personnel attended the South Carolina State Weekend Program held on the NETC campus.
- 1,220 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.

Since 1982, more than 21,706 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 61 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 432 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): South Carolina is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

## **SOUTH DAKOTA**

In FY 2008:

- 40 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 265 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 74 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.

Since 1982, more than 4,725 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 10 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 280 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): South Dakota is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

Battalion Chief Rob Wilson, Fargo Fire Department, served as the Region VIII Training Resources and Data Exchange (TRADE) Metro Co-Chair.

## TENNESSEE

In FY 2008:

- 119 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 1,905 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 244 personnel attended the Tennessee State Weekend Program held on the NETC campus.
- 693 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.
- One firefighter was reported as an on-duty fatality.

Since 1982, more than 43,949 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 66 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 595 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Tennessee is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

Travis Ford, Volunteer State Community College, served as the Vice Chair of the National Fire Science Degree Program Committee (associate's group). This committee develops model fire science courses for adoption by associate degree programs.

## TEXAS

In FY 2008:

- 357 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 7,565 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 4,572 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.
- Three firefighters were reported as on-duty fatalities.

Since 1982, more than 67,897 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 152 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 1,407 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Texas is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

Mike Wisby, Texas Emergency Extension Service, served as the Region VI Training Resources and Data Exchange (TRADE) State Co-Chair, and Captain Bob Smith, Garland Fire Department, served as the Region VI TRADE Metro Co-Chair.

Helen (Campbell) Johnson, State Firemen's and Fire Marshal's Association of Texas, served as the vice-chairperson of the NFA Board of Visitors.

David Kerr, Plano Fire Department, served as the Region VI Prevention Advocacy Resources and Data Exchange (PARADE) Metro Co-Chair.

Debra Carlin, Dallas Fire Rescue, served as a member of the National Fire Prevention, Professional Development Committee. The Committee works with the National Fire Science Curriculum Committee, a component of the Fire and Emergency Services Higher Education (FESHE) Program, in the development of model curricula for fire prevention personnel.

## UTAH

In FY 2008:

- 64 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 310 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 137 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.

Since 1982, more than 8,816 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, eight firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 182 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Utah is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

Gary Noll, Utah Valley State College, served as a member of the National Fire Science Degree Program Committee (bachelor's group). This Committee addresses issues of undergraduate preparation for graduate degree programs and develops models for advanced degrees in fire and emergency services concentrations.

Monica Colby, Utah State Fire Marshal's Office, served as the Region VIII PARADE State Co-Chair. Assistant Chief Scott Adams, Park City Fire Service District, served as the Region VIII PARADE International Fire Marshal's Association (IFMA) Representative Co-Chair.

Battalion Chief Steve Zwirn, Park City Fire Department, received the Executive Fire Officer Program Outstanding (EFOP) Applied Research Award for his work entitled *Examining the 72 Consecutive Hour Work Limit*. The research was written for the NFA's *Executive Leadership* course.

## VERMONT

In FY 2008:

- 32 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 541 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 12 personnel from Vermont attended a State Weekend Program held on the NETC campus.
- 68 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.

Since 1982, more than 3,632 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 18 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 190 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Vermont is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

## VIRGINIA

In FY 2008:

- 210 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 2,153 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 154 personnel attended the Virginia State Weekend Program held on the NETC campus.
- 1,857 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.

Since 1982, more than 20,747 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 51 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 506 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Virginia is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

Buddy Hyde, Jr., Virginia Department of Fire Programs, served as a member of the FESHE Steering Committee. This Committee assists in the development of the annual FESHE conference agenda and develops model solutions in the area of professional development.

Charles Altizer, Virginia State Fire Marshal's Office, served as the Region III PARADE State Co-Chair. James Dawson, Jr., Chesterfield Fire & EMS, served as the Region III PARADE Metro Co-Chair.

Chief Don Hansen, Virginia Department of Fire Programs served as the Region III Training Resources and Data Exchange (TRADE) State Co-Chair.

Chief John Eggleston, Albermarle Fire Department, received a fellowship to attend the Senior Executives in State & Local Government Program at the John F. Kennedy School of Government, Harvard University. This 19-day program included State and local government leaders from across the country. The International Association of Fire Chiefs (IAFC), International Fire Service Training Association (IFSTA), National Fire Protection Association (NFPA), and USFA funded the fellowships. USFA administered the selection process.

## WASHINGTON

In FY 2008:

- 242 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 1,443 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 673 personnel completed NFA self study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.
- Two firefighters were reported as on-duty fatalities.

Since 1982, more than 16,419 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 48 firefighters have died in the line of duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 405 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Washington is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA; thereby, contributing to the national fire incident database.

Judith Kuleta, Bellevue Community College, served as a member of the National Fire Science Degree Program Committee (associate's group). This Committee develops model fire science courses for adoption by associate degree programs.

Jim Broman, Lacey Fire District, served as a member of the Fire and Emergency Services Higher and Education (FESHE) Steering Committee. This Committee assists in the development of the annual FESHE conference agenda and develops model solutions in the area of professional development.

Jim Crawford, Vancouver Fire Department, served as a member of the National Fire Prevention Professional Development Committee. The Committee works with the National Fire Science Curriculum Committee, a component of the FESHE program, in the development of model curricula for fire prevention personnel.

Jakki MacLean, Yakima County Fire Protection Bureau, served as the Region X Prevention Advocacy Resources and Data Exchange (PARADE) International Fire Marshal's Association representative. Lisa Jones, Spokane Fire Department served as the Region X PARADE Metro Co-Chair.

Robert Jones, Washington State Patrol/Fire Protection Bureau served as the Region X Training Resources and Data Exchange (TRADE) State Co-Chair. Lawrence Mummey, Spokane Fire Department, served as the Region X TRADE Metro Co-Chair

## WEST VIRGINIA

In FY 2008:

- 24 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 800 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 89 personnel attended the West Virginia State Weekend Program held on the NETC campus.
- 362 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.
- One firefighter was reported as an on-duty fatality.

Since 1982, more than 49,991 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 35 firefighters have died in the line of duty and been honored at the National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 390 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): West Virginia is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

## WISCONSIN

In FY 2008:

- 117 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 618 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 123 personnel attended the Wisconsin State Weekend Program held on the NETC campus.
- 283 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.
- Two firefighters were reported as on-duty fatalities.

Since 1982, more than 35,618 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 47 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 763 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Wisconsin is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

## WYOMING

In FY 2008:

- 29 fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 387 personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 101 personnel completed NFA self-study programs.
- Received a grant totaling \$28,000 through the NFA State Training Grant Program.

Since 1982, more than 12,810 personnel have been trained through the NFA's State and Local Partner Sponsored Off-Campus Delivery Program.

Since 1981, 14 firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

Since September 2001, 102 departments have registered with the National Fire Department Census.

National Fire Incident Reporting System (NFIRS): Wyoming is a participating NFIRS State, collecting, validating, and automating data from fire departments across the State and forwarding the aggregated data to the USFA.

Inspector Karl Blanksvard, City of Rock Springs Fire Department, received the Executive Fire Officer Program (EFOP) Outstanding Applied Research Award for his work entitled *Identifying Requirements for Reporting Hazardous Materials Storage to Local Fire Departments*. The research was written for the NFA's *Executive Development* course.

Philip Oakes, Wyoming Fire Marshal's Office, served as the Region VIII Training Resources and Data Exchange (TRADE) State Co-Chair.

## **U.S. TERRITORIES AND COMPACT NATIONS**

### **AMERICAN SAMOA**

- Two fire service personnel completed NFA self-study programs.

### **COMMONWEALTH OF THE NORTHERN MARIANAS ISLANDS**

- Six fire service personnel completed NFA self-study programs.

### **GUAM**

- Two fire service personnel attended NFA resident courses on the Emmitsburg campus.
- 13 fire service personnel completed NFA self-study programs.
- Since 1981, one firefighter has died in the line-of-duty and been honored at the annual National Fallen Firefighters Memorial Tribute held in Emmitsburg, Maryland.

### **PUERTO RICO**

- Two fire service personnel attended NFA resident courses on the Emmitsburg campus.
- Seven fire service personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 37 fire service personnel completed NFA self-study programs.
- Since 1981, three firefighters have died in the line-of-duty and been honored at the annual National Fallen Firefighters Tribute held in Emmitsburg, Maryland.

### **REPUBLIC OF PALAU**

- Nine fire service personnel completed NFA self-study programs.

### **U.S. VIRGIN ISLANDS**

- One fire service personnel attended NFA resident courses on the Emmitsburg campus.
- Six fire service personnel participated in off-campus NFA courses offered in the Region, State, or local community.
- 17 fire service personnel completed NFA self-study programs.