



ON OUR WATCH

ANNUAL REPORT | JULY 1, 2016 - JUNE 30, 2017



ILLINOIS FIRE SERVICE INSTITUTE UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

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A MESSAGE FROM DIRECTOR MORTENSON

It is my honor to present the 2017 Annual Report of the Illinois Fire Service Institute at the University of Illinois at Urbana-Champaign. I have always looked forward to writing this message and sharing the many successes that we encounter in each fiscal year. This year is no exception.

In FY2017, the Illinois Fire Service Institute (IFSI) served first responders with top-quality training and education opportunities. Each IFSI program and course represents the best the nation has to offer. In March 2017, IFSI received initial accreditation from the International Fire Service Accreditation Congress (IFSAC). This achievement recognizes that our accredited programs of study meet and exceed national standards. We now hold accreditation with two national fire service accreditation agencies.

Our successes continue with our program delivery. This year, we delivered 54 more courses, over 500 more hours of class instruction, and engaged students in over 28,500 more hours of study. These increases contributed to our outreach to 70 more Illinois fire departments than in the past year. Undoubtedly, this success is a result of the hard work and dedication of the IFSI team of staff and field staff instructors. I would be remiss if I did not also acknowledge that our success would be inhibited without the support of our key partners.

In May 2017, our research team launched the IFSI PPE Cleaning Study. This project, supported by our partners UL Firefighters Safety Research Institute, the National Institute for Occupational Safety and Health, and Skidmore College, has drawn national attention. Our efforts continue to focus on applied research studies that aim to improve education on firefighter life safety and fireground risks. We look forward to sharing the study results in the upcoming year.

I anticipate we will continue to share many successes and areas of growth in the next year as we better direct our marketing efforts. Our team set strategic goals to streamline our print media publications and further enhance our electronic media platforms. I encourage you to stay connected with the weekly training highlights and event activity postings that we share on the IFSI social media channels and the IFSI website. They are further evidence of the successes we encounter each day serving first responders throughout the state, country and world.

Thank you for your support of the Illinois Fire Service Institute. It is my pleasure to support our mission of *Helping Firefighters Do Their Work Through Training, Education, Information, and Research.*



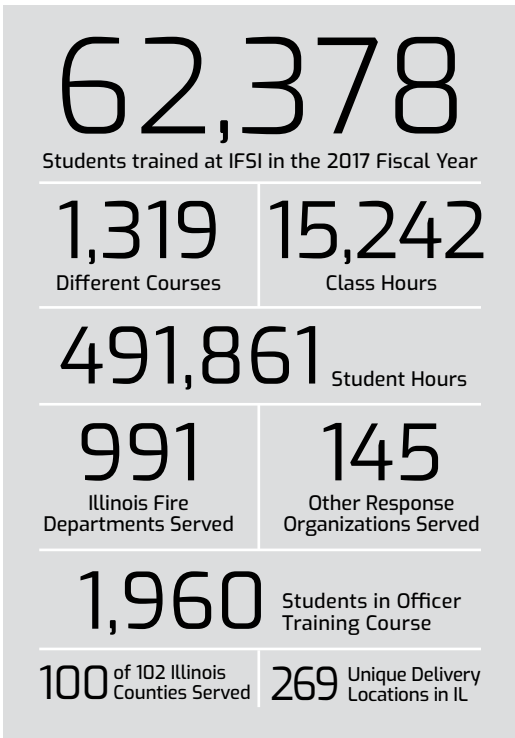
Royal P. Mortenson
Director

ILLINOIS FIRE SERVICE INSTITUTE

University of Illinois at Urbana-Champaign

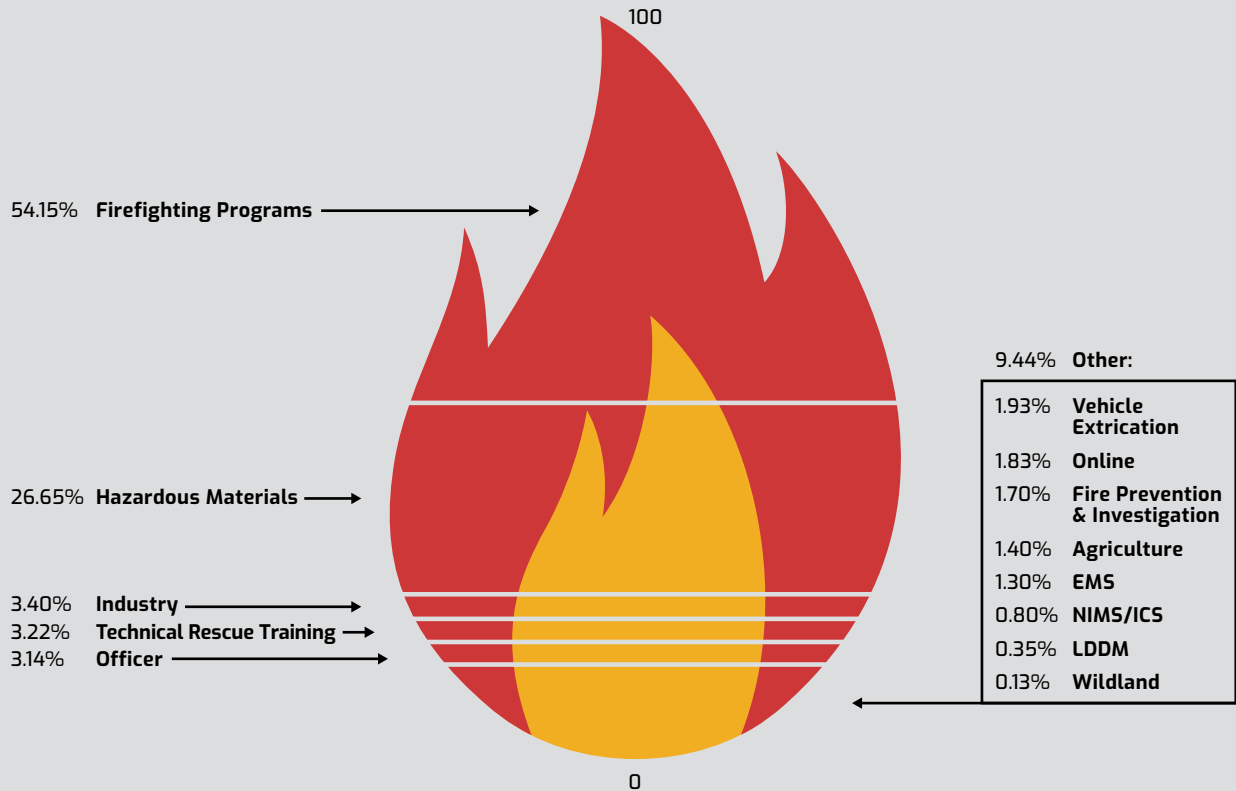
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Our Mission: *Helping Firefighters Do Their Work Through Training, Education, Information, and Research.*

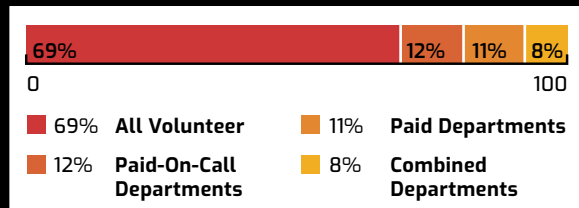


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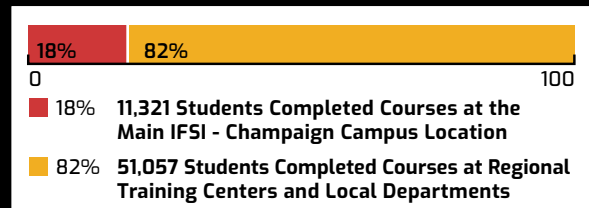
ENROLLMENT BY PROGRAM



Enrollment By Career Type



Student Registrations by Location



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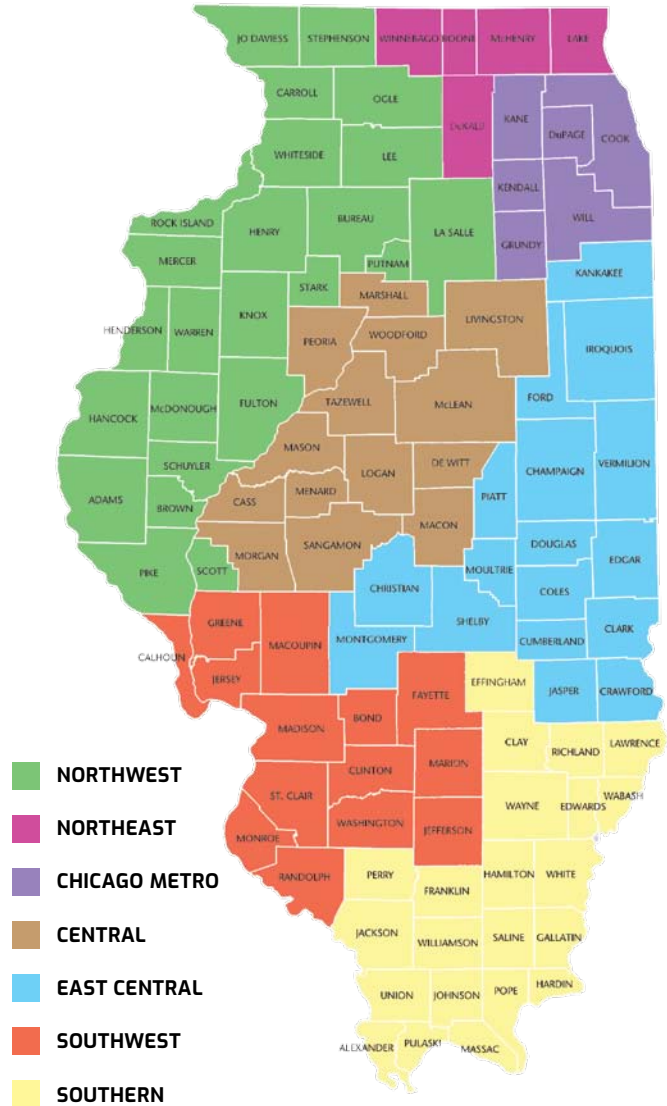
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CORNERSTONE PROGRAM

The Cornerstone Program delivers fundamental and essential skills training to local fire departments, MABAS Divisions and Mutual Aid Associations throughout the state. Training is coordinated through seven IFSI Regional Representatives. Courses are funded through the Office of the Illinois State Fire Marshal and the Fire Prevention Fund. Classes are available at no cost to students or fire departments.



CORNERSTONE DELIVERY

438 Classes Delivered
719 Departments Served
9,438 Students Reached

Delivery by Region

Central Region	63 Classes	1,137 Students	8,508 Class Hours
Chicago Metro	65 Classes	1,820 Students	13,578 Class Hours
East Central	86 Classes	1,776 Students	10,524 Class Hours
Northwest	56 Classes	1,226 Students	8,282 Class Hours
South Region	42 Classes	880 Students	4,702 Class Hours
Southwest Region	86 Classes	1,695 Students	8,262 Class Hours
Northeast Region	40 Classes	904 Students	5,523 Class Hours
	438	9,438	59,379

CURRICULUM

The Illinois Fire Service Institute maintained accreditation with the National Board on Fire Service Professional Qualifications (Pro Board). In FY17, IFSI held 27 Pro Board Approved Levels. This included five reaccredited or new levels.

IFSI was also pleased to receive initial accreditation from the International Fire Service Accreditation Congress (IFSAC) in FY17. IFSI was approved for three levels, Fire Fighter I (NFPA 1001 - 2013 Ed.), Hazardous Material Awareness (NFPA 472 - 2013 Ed.), and Hazardous Material Operations (NFPA 472 - 2013 Ed.)

IFSI Testing Staff administered 6,749 end of course exams.

- 6,275 Initial administrations
- 332 Online administrations
- 142 Retests

IFSI had 45 courses approved for certification by the Office of the Illinois State Fire Marshal

5,242 students passed IFSI courses that led to certification through the Office of the Illinois State Fire Marshal.

FIREFIGHTING PROGRAMS

The IFSI Firefighting Program offers realistic, hands-on training opportunities for first responders. Courses provide students with an immersive learning experience.

Firefighting Programs Support

Illinois Petroleum Resource Board (Oil and Gas)

2 Classes	11 Departments	38 Students
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Illinois Propane Education and Research Council (IPERC)

49 Classes	257 Departments	1,412 Students
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Illinois Department of Natural Resources (Wildland Training)

14 Classes	64 Departments	386 Students
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Students Served in Firefighting Programs

Acquired Structure Burns	269 Students	2%
Agriculture Fire/Rescue	381 Students	3%
Courage to Be Safe	370 Students	3%
Apparatus Engineer/Traffic Incident Management/Driver/Operator	2,294 Students	18%
Firefighting*	3,825 Students	30%
Fire Officer Programs	1,237 Students	10%
Liquefied Petroleum Gas	1,487 Students	12%
Responder Intervention Team Rescue	396 Students	3%
Fire Prevention, Investigation, Inspector	920 Students	7%
Wildland Fires	386 Students	3%
Vehicle and Machinery Rescue	1,164 Students	9%
	12,729	100%

*Firefighting includes Truck Company Operations, Engine Company Operations, Advanced Breathing Apparatus Specialist, Academy, Light and Fight, Fire Attack and Suppression Techniques

SPECIAL OPERATIONS TRAINING PROGRAM (SOTP)

The Illinois Fire Service Institute Special Operations Training Program (SOTP) delivers technical rescue and hazardous material training to first responders. Courses offer immersive training experiences that challenge even the most experienced students. IFSI SOTP is at the forefront of nationwide technical rescue and hazardous material training programs. SOTP courses are FEMA approved and several levels hold ProBoard and IFSAC National Accreditation.

Students Enrolled in SOTP Courses

Hazardous Materials	16,498 Students	93.18%
Confined Space	453 Students	2.56%
Rope	442 Students	2.50%
Structural Collapse	152 Students	0.86%
Trench	160 Students	0.90%
	17,705	100%



NATIONAL INCIDENT MANAGEMENT SYSTEM (NIMS)

In FY17, the NIMS/ICS Programs delivered 32 classes to 538 students in 23 training locations.

SPECIAL EVENTS

IFSI offers affordable, hands-on training experiences throughout the year. In FY17, special event programs reached over 1,200 students.

- The **93rd Annual Fire College**, America's oldest continuous fire school, brought 415 firefighters to Champaign for hands-on training. Over the course of the four day training event, IFSI social media channels reached over 101,000 video views of program training highlights.
- The **22nd Annual Winter Fire School** attendance increased from previous years as IFSI welcomed 374 students to the training grounds.
- The **15th Annual Explorer Cadet Hands-On Training Fire School** offered students ages 15 to 20 from throughout the country a preview of a potential fire service career. During the four-day program, 287 students trained in basic and advanced firefighting skills and rope rescue operations.
- The **126th Annual Illinois Firefighter's Association Down and Dirty Training Weekend** was hosted by IFSI in October. The statewide event brought 82 students to the Champaign training grounds.

LIBRARY

The IFSI Library is the only library in the state dedicated to fire and emergency services. It is also the third largest fire and emergency services library in the United States.

FY2017 Highlights:

- Named for the third consecutive year as a finalist for the Institute of Museums and Library Services' National Medal of Honor for Museum and Library Services.
- IFSI Library Reference and Public Services Department answered 4,500 reference requests, added 554 items to the collection, loaded 2437 items, received 6915 views for library created online subject "LibGuides", and filtered 154 items of IFSI Library materials to the Peoria Fire Academy.
- Library staff conducted 50 user training workshops, training 633 users.
- IFSI Library Technical, Archives and Metadata Department managed 71,765 titles in the library holding including prints, nonprints, periodicals, E-resources, devices, IFLODD, IDEALS and articles.

The IFSI Library maintains the Illinois Firefighter Medal of Honor and Medal of Valor database and the Illinois Firefighter Line of Duty Death Database (IFLODD).

- 554 new items to the collection
- 880 IFLODD firefighter records
- 703 firefighters with incident summaries
- 450 images and 14 total oral history interviews
- 81,377 IFLODD database hits since 5/2007

INTERNATIONAL PROGRAMS

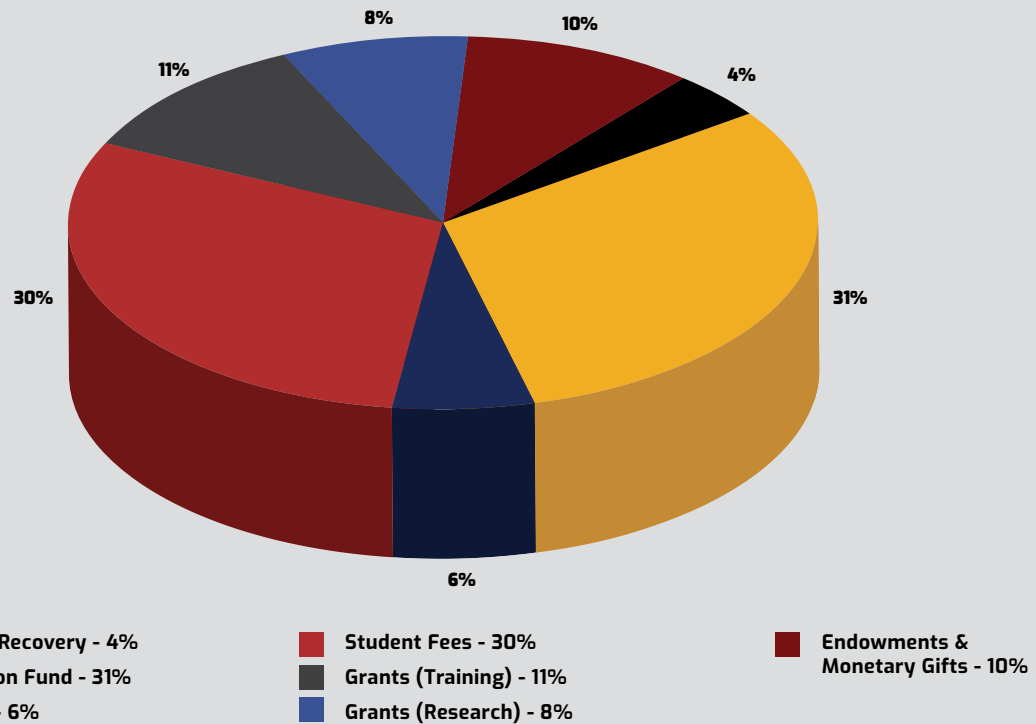
- Six officers from the Hong Kong Fire Services Department attended an IFSI Hazardous Materials Technician Training Program in May 2017. Since 2009, more than 50 Hong Kong officers have attended the program.
- In December 2016, IFSI delivered the third Hazardous Materials Awareness and Operations Training Program in Huizhou, China. IFSI trained 34 participants during the course.
- In December 2016, IFSI visited the Hong Kong Fire and Ambulance Services Academy, the Shenzhen S&HE Safety Solution Co. Ltd. and the Kunming Fire Command School. IFSI presented at the National Hazardous Chemicals Emergency Rescue Huizhou Base Hazardous Chemical Emergency & Rescue International Workshop.
- In September 2016, IFSI presented at the Chinese People's Armed Police Force Academy International Seminar on Firefighting and Rescue Operations.
- A Chinese People's Armed Police Force Academy delegation of five visited IFSI in June 2017.
- During FY2017, IFSI welcomed 14 visiting scholars to IFSI. Since 2008, IFSI has sponsored and received 68 Chinese visiting scholars from 46 institutions in China.
- IFSI hosted the Chinese Librarians Scholarly Exchange Program for the 13th consecutive year. In FY2017, 37 librarians joined the program. The program has trained 349 librarians from 122 organizations in China since 2005.

RESEARCH

- Completed data collection on the Protection from Chemical, Thermal, and Cardiovascular Risks: Impact of PPE Laundering and Hood Design study with partners at UL FSRI, NIOSH and NC State. Participants included individuals from California, Florida, Illinois, Indiana, Massachusetts, Missouri, New Jersey, New York, Ohio, Oklahoma, South Dakota, Texas, Utah, Virginia and Wisconsin.
- Published research findings in academic peer reviewed journals including: Journal of Occupational and Environmental Hygiene, Ergonomics (3 papers), Fire Technology (3 papers), Extreme Mechanics Letters, Experimental Mechanics, Stress and Health
- Conducted a NIST research project to study the effects of repeated thermal exposures on SCBA facepieces to study off-gassing from SCBA facepieces and potential improvements in masks built to updated NFPA standards
- Conducted broad outreach to the fire service including:
 - Published Firehouse Magazine Supplement titled 10 Considerations Related Cardiovascular and Chemical Exposure Risks
 - Conducted Fire Engineering and Envisage webinars with national exposure
 - Presented research at national conferences and meetings



IFSI FUNDING SOURCES



STRATEGIC PARTNERSHIPS

IFSI's many strategic partnerships allow us to share knowledge and resources with leading educators, researchers, corporations, professional associations and other organizations.

CURRENT PARTNERS:

- Office of the Illinois State Fire Marshal
- Illinois Fire Chiefs Association
- Illinois Firefighters Association
- Illinois Association of Fire Protection Districts
- Illinois Propane Education and Research Council (IPERC)
- Illinois Petroleum Resources Board
- Illinois Fire Services Association
- Illinois Department of Natural Resources
- State of Illinois Fire Caucus
- Chicago Fire Department
- Underwriters Laboratories
- National Institute for Occupational Safety and Health



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