



**Illinois Fire Service Institute  
FY 2004  
Annual Report**  
For activities completed 1 July 2003 – 30 June 2004





## Illinois Fire Service Institute 2004 Annual Report



**In FY 2004, the Illinois Fire Service Institute (IFSI) delivered the following:**

**34,299 Enrollments    542,580 Student Hours**  
**958 Fire Departments plus 119 other organizations**  
**1,274 Classes    19,000 Class Hours    3,625 Class Days    328 Class Locations**  
**Attended by 1st Responders from 100 Illinois Counties**

Over the past five years, IFSI has more than doubled all of its annual performance measures, including budget, number of classes, departments reached and students. This trend was maintained in Fiscal Year 2004. The Institute continued to provide essential hands-on firefighting skills training to volunteer, paid-on-call, and career firefighters in virtually every corner of the state, while implementing an unprecedented homeland security training program as an essential training component of the Illinois State Homeland Security strategy as approved by the Governor and Illinois Terrorism Task Force (ITTF).

### **Significant IFSI accomplishments in FY 2004**

**Fire Caucus.** In FY04, the Institute worked with the 11-member statewide fire service organizations of the Illinois Fire Services Association (IFSA) to help establish the Illinois Legislative Fire Caucus. Together the IFSA and Fire Caucus sponsored and passed significant legislation, to include amending the Illinois Fire Prevention Fund (FPF) statute to prevent “sweep” of any monies in the Fund into General Revenue Funds. As a result, in FY04, state statutory funding for IFSI through the FPF increased 14.25% from \$1.19 million in FY 03 to \$1.408 million and is projected to be \$1.720 in FY 05 and \$1.974 million in FY 2006. IFSI annual grant funding for the ongoing Cornerstone program was reduced to \$150,000 in FY 04 but will be restored to \$300,000 in FY05. Homeland security grant funding continued to grow in FY04 exceeding \$2 million annually.

**Homeland Security Training.** During FY 04, IFSI continued to play a leadership role on the Illinois state Terrorism Task Force (ITTF) as co-chair of the Training Committee, as a member of the Science and Technology Committee, and as an advisor to the Elected Officials Committee. IFSI conducted 617 courses, for 17,563 responders providing 220,223 SIH. Special efforts included completion of a 4-year development effort to create a National Incident Management System (NIMS)-compliant Unified Command course for all first responders. In FY04 the course was tested, four separate train-the-trainer courses qualifying 96 instructors conducted, and course delivery began statewide in the summer 2004. The first technical rescue team validation was conducted by MABAS and Combined Agency Response Team (CART) at IFSI in June 2004. The exercise included notification, marshaling, deployment from as far as Lake County, in-processing, self-sustained logistics support and hands-on training scenarios involving confined space, vertical, heavy and light weight construction collapse rescue, casualty packaging and unified command.

**Chicago Fire Department.** During FY04 IFSI substantially increased training programs with the City of Chicago Fire Department (CFD). IFSI programs had 4,313 enrollments and 177,853 student instructional hours (SIH). Courses included a department-wide course in rope-assisted-search, a partnership with the International Association of Firefighters (IAFF) for hazardous materials (HAZMAT) training for all truck companies, and leadership education for newly promoted company officers. In the wake of the tragic fire at the Cook County Building in Oct 03, IFSI assisted the CFD to develop a new high rise operations protocol and during fall 2004 will develop and deliver a 4-hour block of hands-on instruction on the SOP to every fire company. During FY04, IFSI began conducting officer training and education courses for all newly promoted officers.

**Illinois Homeland Security Research Center.** With funding support from UIUC, IFSI has created a virtual Homeland Security Research Center to serve as a clearinghouse for homeland security researchers in Illinois and adopted the Memorial Institute for the Prevention of Terrorism (MIPT)-produced “Project Responder” national research agenda as its starting point.

**Other significant accomplishments.** Include:

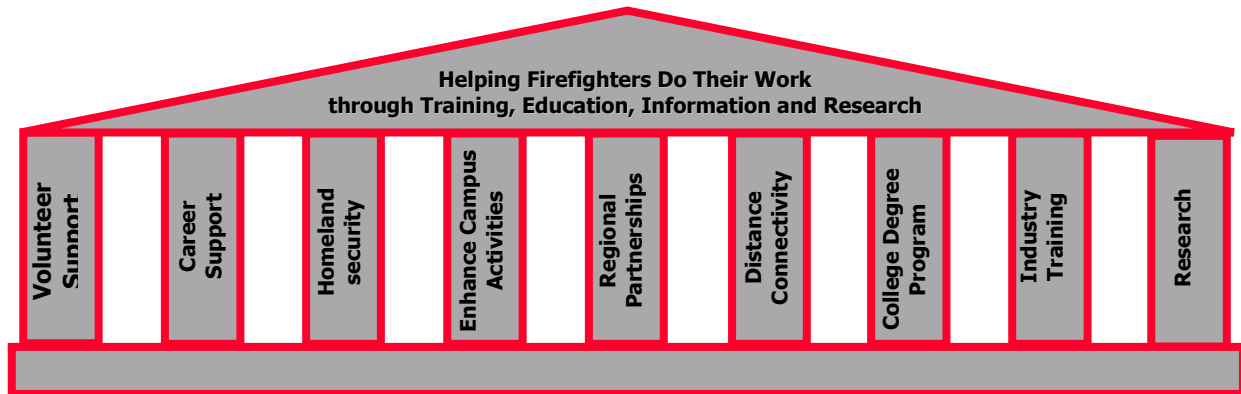
- ◆ IFSI celebrated the 80<sup>th</sup> annual Fire College in June 2004 as the oldest continuous annual fire college in the nation. A permanent plaque was dedicated on Engineering Quad, UIUC to commemorate Engineering Hall as the site of the first Fire College. 185 fire service professionals attended the first Fire College and more than 1,000 firefighters and 200 staff and faculty attended the 80<sup>th</sup> Fire College.
- ◆ For the first time in its 80-year history, IFSI delivered more than a half-million student instructional hours during FY 2004.
- ◆ In furtherance of its statutory mission to “provide action-oriented research to support fire training and education programs” IFSI established a research office with a PhD Research Program Coordinator.
- ◆ IFSI supported real-world rescue operations in Utica in the wake of an F-3 tornado, where multiple technical rescue teams (many trained by IFSI using its structural collapse training program) rescued 7 victims and recovered 8 bodies from a fully collapsed building.
- ◆ IFSI became part of the UIUC campus development effort, establishing a fulltime development officer, the IFSI Fund to provide a mechanism for unrestricted annual contributions, and major gift support for the capital development program.
- ◆ Hurst Tools made a major contribution of rescue training tools valued at more than \$100,000 to support hands-on rescue training programs.
- ◆ The American Council on Education (ACE) re-accredited (18) IFSI courses for college credit.
- ◆ IFSI assumed the lead for the Homeland Security State Instructor Program, which supports more than 650 local instructors delivering homeland security courses to local first responders.
- ◆ Second Annual Fire Explorer and Cadet Jamboree was conducted on-campus. 200 Explorers and cadets (age 14 to 20), and adult advisors worked together in a fire company-based training atmosphere picking up hands-on firefighter skills.
- ◆ The second “Down & Dirty Firefighter Skills” Training CD was produced and distributed to every fire department in Illinois under a gift from the Illinois Firefighters Association. The CD program was adopted by the State of Florida for all Florida fire departments.
- ◆ The IFSI information technology in-house infrastructure was upgraded to provide a new Student and Staff Resource Center for on-line registration and course support, e-mail connectivity for the more that 400 full and part-time staff statewide, and to interface the statutorily mandated student database with the UIUC BANNER system.
- ◆ IFSI continued to support the UIUC International Programs and Studies (IPS) program for Chinese officials with lectures and demonstrations on homeland security and fire service issues.
- ◆ The IFSI library moved to expanded space providing a reference desk, staffed during routine business hours, public accessible library stacks, user study area and a computer laboratory.
- ◆ For the first time, the 3-week intensive Fire and Arson Investigation series was offered in a weekend format in the Metro East / Fairview Heights area, specifically to support volunteer fire investigators who could not attend a course during the work week.
- ◆ IFSI continued to assist the Federal Emergency Management Agency (FEMA) conduct Assistance to Firefighter Grant workshops throughout Illinois and participated in the US Fire Administration (USFA) grant peer review process. USFA awarded 241 Illinois fire departments grants totaling \$18.8 million in 2004.
- ◆ IFSI made substantial on-campus facility improvements to include a dedicated HAZMAT course support facility, enhanced LP burn facility, additional structural collapse rescue training props in “Rescue City,” and design / development of a technical rescue facility using sealand containers and significant custom ironwork by UIUC iron workers.
- ◆ The LP live burn training program funded by the Illinois Propane Education and Research Council (IPERC) continued with 69 burn classes, reaching 2,032 firefighters from 314 departments who participated at no cost in this hands-on live-fire training program. IPERC also funded the development of additional burn props including fixed and mobile LP bobtail delivery truck burn props.
- ◆ IFSI acquired a refurbished fire engine from Lockport FPD in exchange for training programs.



**1<sup>st</sup> Fire College 16-19 June 1925**



## IFSI Goals and Strategies Vision 2010



In 1998, IFSI developed and implemented a 5-year strategic plan entitled Vision 2000. Having achieved the vast majority of the goals set in Vision 2000, in late 2002, IFSI updated the plan through 2010. This revised “Vision 2010,” provides a roadmap, strategic priorities and organizational goals that serve as guides for Institute leadership, staff, instructors. The central goal of Vision 2010 is identified as:

### **“ Helping Firefighters Do Their Work Through Training, Education, Information and Research”**

This goal is derived from the missions established for the Board of Trustees of the University of Illinois in the Fire Service Institute Act (P.A. 81-1147) requiring that they:

“operate the State Fire Academy, to be called the Illinois Fire Service Institute, for the purpose of **instructing fire protection personnel** throughout the State of Illinois, **providing service to public and private fire departments** in Illinois and **conducting research** in the methods of maintaining and improving fire protection and control services consistent with the needs of Illinois communities.”

Vision 2010 is portrayed in the above graphic as 9 pillars of IFSI programs built upon a foundation of sponsorship from the Illinois fire service, UIUC, the State of Illinois, private sponsors and donors, and the extraordinary men and women who labor full and part-time as IFSI staff and faculty statewide. Vision 2010 provides that IFSI has a 365 day-a year mission, demanding weekday, weekend and after-hours efforts to accommodate both volunteer and paid firefighter students. The following is a summary of FY2004 activities toward the fulfillment of Vision 2010.

**Sponsorship.** As IFSI continues to grow, strategic management of its financial resources is critical. Vision 2010 must be built upon a foundation of sponsorship. The continuing development of sponsorship will permit IFSI to increasingly meet the training, education, information and research needs of Illinois firefighters, while maintaining course fees at direct cost recovery. This sponsorship strategy seeks to develop “sponsors” for both the annual delivery of programs and to meet the IFSI capital development goals for a new special library dedicated to support of first responders and a new live-burn training and research site in South Farms. In 2004, IFSI established a fulltime development officer and created the IFSI Fund as the basis for its annual fund and capital development campaigns. For the first time ever, IFSI will participate as a UIUC campus unit in the U of I 5-year Strategic Development Campaign. Sponsorship will focus on:

- ◆ Continuous dialogue with individual firefighters, fire departments and fire protection districts (FPD).
- ◆ The Legislative Fire Caucus and Illinois Fire Services Association to protect and enhance the Fire Prevention Fund as IFSI’s only source of State funding.
- ◆ Seek additional grant funds from federal and state government, and from non-profit organizations such as the Illinois Propane Education and Research Council (IPERC).
- ◆ Seek in-kind donations from tool manufacturers such as Hurst Tools.
- ◆ Maintain the IFSI Field Staff Scholarship fund and program as a self-sustaining development activity.

**Volunteer and Career Firefighter Support.** IFSI's primary focus is to support the more than 42,000 firefighters and some 1,300 fire departments and FPD in Illinois. IFSI has extended its support to firefighters and departments in all states bordering Illinois by permitting them to attend IFSI courses at in-state rates and to attend Cornerstone courses at no cost, on a space-available basis. In FY04, IFSI continued development and update of selected certification courses, laid-out a template for farm/agriculture-related programs, and continued development of homeland security courses that meet evolving national standards. As stated earlier, IFSI significantly expanded work with the Chicago Fire Department (CFD) to include, participating on the transition team for the new Fire Commissioner, assisting with the development of new high-rise operating procedures, partnering with the CFD Fire Academy to provide critical hands-on training in firefighter, HAZMAT, and technical rescue skills. IFSI also participates in each of the OSFM-sponsored firefighter certification committees to update Illinois State firefighter certification standards and tests.

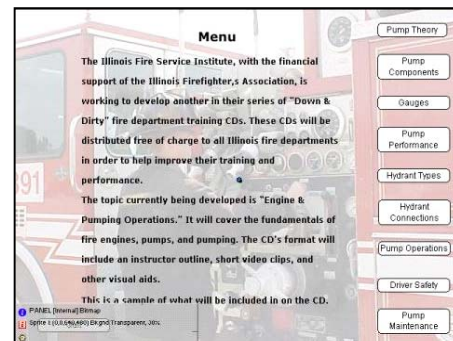
**9-for-1 Program.** An overarching goal of all IFSI programs is to maximize the benefits to the individual firefighter and department for completion of each hour of IFSI training. To this end, IFSI created the "7-for-1" program, designed to award up to 7 different hours of credit for each hour of instruction. In FY 04-05 this program has added two additional credits, including (new in bold):

1. Firefighter / Police Officer certification
2. Continuing education requirements
3. Annual national regulatory requirements; e.g., CFR 1910.120 (HAZMAT), 1910.134 (SCBA) and 1910.146 (rescue).
4. College credit through ACE
5. Dual certificates with IFSI and the National Fire Academy.
6. Meet interagency training requirements.
7. Meet grant performance requirements.
8. **Meet National Incident Management System (NIMS) and National Response Plan (NRP) training requirements as established by Presidential Directive and the DHS.**
9. **Qualify for ProBoard certificates to provide national transportability for IFSI certificates.**

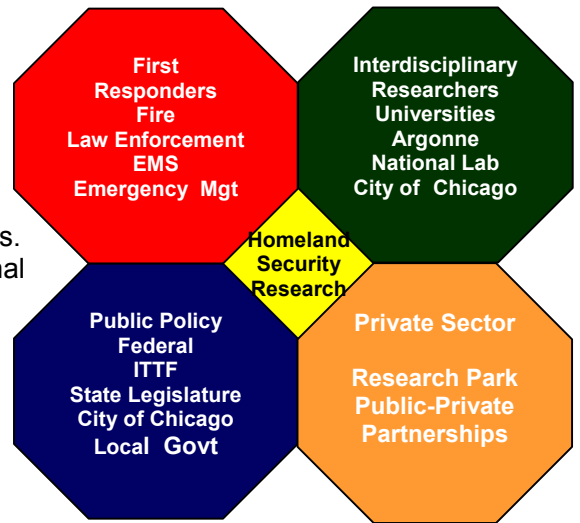
**Cornerstone Program.** In FY99 the Cornerstone program was created to ensure that every firefighter, particularly volunteer and rural, has access to hands-on training required to provide each firefighter with the critical skills and knowledge essential to operate safely in highly hazardous fire environments to save lives and property. This program is particularly important to sustain firefighter training when local budgets are reduced, as is currently the case. The program is conducted under a grant from the OSFM from State reimbursement training funds and with a grant from IPERC. In FY03, the Cornerstone Program was funded at \$300,000. In FY04, State budget constraints reduced grant funding to \$150,000, but restored it to \$300,000 in FY 05. The Governor's office, OSFM and IFSI are developing a plan to increase funding to \$500,000 in FY06. In FY04 Cornerstone delivered 299 classes, and 64,246 SIH, in 116 locations, to 7,639 firefighters, from 684 fire departments, in 97 Illinois counties.

**National Fire Academy.** IFSI maintains strong working relationships with the National Fire Academy (NFA) and the other state fire academies through the North American Fire Training Directors Association (NAFTD). This partnership provides NFA curriculum and grant funding to IFSI to deliver NFA courses in-state. It also provides a mechanism for NAFTD members to share curriculum, use NFA grant funding for delivery and receive a NFA certificate of completion. NFA continues to provide 9 courses annually to IFSI at no cost for delivery as part of statewide programs.

**Down and Dirty CD.** In partnership with the Illinois Firefighters Association (IFA), IFSI developed the second in a series of essential skills training program CDs. This new CD set covers engine and pumps essentials and was distributed to every fire department in Illinois at no cost. In FY04, the Florida State Fire Academy requested IFSI authorize them to distribute the program to all Florida fire departments. Future programs will be distributed annually in DVD format and cover subjects including Rural Water, Ladder Truck Operations, and Fire Ground Support.



**Homeland Security.** As a defining focus for the 21<sup>st</sup> Century, homeland security is demanding the rapid creation of new interdisciplinary relationships and programs, new nationally-base training and education programs, and the application of emerging and existing technologies to fill critical capability gaps. IFSI is committed to supporting local, regional, state and national interagency efforts to prepare for, prevent, respond to, and recover from a major event involving a CBRNE weapon of mass destruction (WMD) that exceeds the capabilities and capacities of local first responders. In addition, IFSI is committed to being an active partner in the development of interdisciplinary “action-oriented” homeland security research, which brings together first responders, researchers, the private sector and public policymakers.



IFSI has served as the co-chair of the Illinois Terrorism Task Force (ITTF) training Committee since its inception in 2000 and has helped develop the state security training strategy, unique hands-on training facilities that include technical rescue city, and 19 unique homeland security courses as part of the strategy. The mission of the Training Committee is to define, develop and implement a statewide training strategy that prepares local responders to operate as a local member of a regional team, prepare state response team members for statewide response, and prepare emergency leaders and managers to operate within the NIMS, compatible with the National Response Plan (NRP) at a CBRNE WMD event requiring statewide response. The strategy provides training for statewide mutual aid to include incident command assistance teams, HAZMAT, technical rescue, and law enforcement special operations team response. In addition to field staff instructors, IFSI has developed a “State Instructor Program” that includes another 650 local instructors who are credentialed and supported to deliver state homeland security courses. IFSI has more than two-dozen regional training center partnerships with local communities around the state and maintains a set of trailers to provide hands-on homeland security training programs statewide.



Beginning in FY02, homeland security training represented one-third of IFSI classes and enrollments and half of IFSI funding. IFSI has received funding through the ITTF to develop and deliver both directly and through regional partnerships the ITTF training strategy curriculum.

FY 03	FY 04	FY 05	Total
\$ 3.39 mil	\$ 2.76 mil	\$3.07 mil	\$9.22 million

Demands for homeland security-related courses, underwritten by substantial federal funding through the Illinois Terrorism Task Force (ITTF), will continue to represent annually a third or more of IFSI courses and course hours, and a quarter of enrollments and SIH for FY 04-06 and beyond. The primary focus will be in the following areas:

- ◆ Training Committee leadership.
- ◆ Fully comply with the FY 2005 Department of Homeland Security (DHS), Office of State and Local Government Coordination and Preparedness (SLGCP) Homeland Security Program guidance, to include:
  - Register all ITTF-sponsored classes taught in Illinois since 2000.
  - Report all remaining ITTF training courses requiring institutionalization to SLGCP.
  - Submit and achieve SLGCP course approval for all courses in the ITTF Training plan.
  - Schedule all training courses through the end of the FY 2005 funding period.
- ◆ Implement the recommendations of the Regional Training Center (RTC) Sub-committee to construct special operations training props for HAZMAT, technical rescue, and law enforcement regional containment teams at RTC’s.
- ◆ Conduct courses that meet the ITTF training strategy goals, including:
  - Common terrorism core curriculum for all Illinois first responders.

- Courses for crisis team members in incident command, unified command, HAZMAT Incident Management System, interdisciplinary safety officer, and NIMS.
- ◆ Provide baseline training and support validation of statewide-deployable teams.

IFSI will also maintain the ability to respond to actual terrorist events with technical advisors and equipment in mobile trailers when tasked by the State Emergency Operations Center. Homeland security is also creating opportunities to develop new regional partnerships.

**Enhance Campus Activities.**

**Capital Development Plan.** During FY2004 IFSI continued development and implementation of a long-term capital development plan. As part of Vision 2010, IFSI envisions two capital projects. The first project is the construction of a library /Homeland Security Research Center Laboratory (HSRC – Lab), at the IFSI site as part of the South Research Park master plan. The library portion of the project has completed a Chancellor’s Capital Review Committee (CCRC) feasibility study. The HSRC-Lab is a new idea that will provide grant-funded interdisciplinary laboratory space as part of the building.



The second project is the development of a new 30-60 acre burn training / research facility in the new South Farms area. IFSI is among the nation’s leading hands-on firefighting schools. This hands-on training in realistic structures under live-fire conditions is critical to IFSI’s ability to achieve its statutory missions. Existing burn structures are expected to reach the end of their usable life for live burns within 15 years. Burn training at the current IFSI facility is already limited to relatively small fires using Class A (wood and straw) and LP materials. Oil burn training that produces thick black smoke is essential in comprehensive firefighter training; however, this type of training can no longer be conducted at the current IFSI facility. In addition, there is a growing interest in interdisciplinary, homeland security research, to include building product research with the College of Engineering and the National Institute of Standards and Technology (NIST). IFSI can continue to lead the nation as a firefighting school while providing new and unique opportunities for homeland security and engineering research by retaining the current facilities for non-burn fire science and rescue training and homeland security research, and developing a new burn training and research facility in South Farms with adequate buffer space for smoke dispersal.

In 2004, a unique training facility was designed, engineered and constructed on campus to provide hands-on training props for statewide technical rescue teams (TRT) created by local fire departments, the Mutual Aid Box Alarm System (MABAS) and Combined Agency Response Team (CART) funded through the ITTF. The prop will also serve as a model for regional training centers (RTC) to develop similar props for regional training of TRT ‘s. Development continued in Rescue City to support the structural collapse technician training required as the final phase of TRT baseline training.



The LP live burn training funded by a grant from the Illinois Propane Education and Research Council (IPERC) was enhanced by the creation of live-fire props simulating a LP fire on a 1,500 gallon bobtail LP delivery truck, a significantly increased risk scenario over the 500 gal tanks used in the basic burn program.





To support IFSI's homeland security training and support missions, a hazardous materials (HAZMAT) refit facility was built and outfitted. This facility stores the HAZMAT personal protective gear, HAZMAT detection and decontamination equipment required to deliver the statewide HAZMAT Operations and Technician training programs. It also provides a ready stock of operational HAZMAT material for immediate support of a response to a real-world weapons of mass destruction (WMD) event in Illinois.

**Regional Partnerships.**

IFSI continues to develop fire service and homeland security interdisciplinary first responder local and regional training partnerships. In support of this program, IFSI continues to expand its field staff instructors (350+) drawn from departments throughout Illinois and a fleet of trailers to support hands-on training in local communities.

IFSI continues to develop partnership agreements with local communities and regional fire training facilities to provide local access to hands-on IFSI courses. Importantly, this effort now includes the City of Chicago and Chicago Fire Department. The goal is to ensure that each of the State's 19 Homeland Security regions has at least one regional training facility.

**Distance Connectivity.**



*IFSI Library.* Using technology and outreach, IFSI has developed and continues to create new, innovative ways at a distance "to help every Illinois firefighter do their work through training, education, research and information." During FY2004, the IFSI library answered 2,168 reference requests and averaged more than 150 visits daily to the library web site web site visitors. The library expanded into a larger space and established a new computer lab for patrons.



*On-line courses.* IFSI is on the leading edge of providing on-line training opportunities for Illinois firefighters. Using a University of Illinois On Line grant, IFSI was the first state fire academy in the nation to offer the Firefighter II on-line that meets all Illinois state certification requirements and national NFPA standards. By Dec 2004 more than 300 students will have completed the 1-year on-line program. Building upon this, IFSI is committed to developing an on-line version of every awareness-level course in the Office of the State Fire Marshal (OSFM) certification program. IFSI also established a portion of its web site dedicated to support homeland security.

*OnLine Resource Center.* A long-standing IFSI goal is to provide each IFSI student and field staff member with an individually tailored access to the specific courses and programs in which they are interested. The Student and Staff Resource Center achieves this goal. For students and fire departments, it permits on-line registration and payment of course fees, specific course assignments and equipment requirements and registration confirmation. For staff and instructors, it provides course support information to include curriculum updates, class rosters and post-course statistics.



*IFSI Web Site.* The IFSI web site averaged more than 500 visitors daily. Visitors accessed the web site from throughout Illinois, the nation and 3% were international.

**Research.**

The Illinois Fire Service Institute is building an interdisciplinary research program to explore and develop technologies that will improve the safety and effectiveness of first responders. The program has its foundation in the needs of the working fire departments, HAZMAT, auto, farm and technical rescue teams, fire prevention engineers, tool manufacturers, and the building materials and construction industry. To help accomplish this goal IFSI is reaching out to and partnering with campus research activities and affiliates that are well aligned with these technology needs.



There has been a **legacy of research** at IFSI that has focused on improving the health and safety of firefighters. For over 10 years, IFSI has collaborated with the Departments of Kinesiology & Psychology at UIUC and Skidmore College to determine heat stress effects on firefighters. This research has led to 5 peer-reviewed publications and many more lay publications for the fire service. Most of the projects currently under investigation and development are dedicated to further improving the health and safety of firefighters. Continued heat stress, dehydration, and improved PPE research, as well as new fitness training, cognitive function, in-situ physiological monitoring technology, and slip-and-fall mitigation programs are aimed at solving the major causes of fatality and injury on the job. The second thrust for the current program is the development of incident command technologies, which includes IFSI involvement in the Collaboration for Preparedness against, Response to and Recovery from disasters involving critical physical infrastructures (CP2R) program, development of ad hoc networks, and collaborations with Motorola and NCSA.

The research program is developing several other projects that fall outside of these two categories, but represent the breadth of interest interdisciplinary research supporting the Fire Service. Concepts for future research include investigating various knot strength characteristics for vertical rescue, developing food bio-security threat response protocols, researching and developing self-healing HAZMAT PPE, and investigating the eco-toxic effects of fire-water runoff to name a few.

Additionally, the IFSI Librarian Lian Ruan has continued to develop a strong research partnership with the Graduate School of Library and Information Science (GSLIS) and other special fire service libraries to enhance their ability to provide critical information and research services to the fire service.

**College Degree Program.** Included in IFSI's statutory responsibilities are to "Develop mechanisms by which firefighters may earn college credit and degrees in fire-related disciplines." Illinois has a strong network of community college-based 2-year fire science associate degree programs, Southern Illinois University and Western Illinois University offer baccalaureate degrees, and several universities offer master's degrees in public administration. IFSI seeks to support rather than compete with these programs because there is a limited professional audience for them. Rather by accrediting numerous IFSI courses through the American Council of Education (ACE), IFSI is able to support any firefighter seeking a college degree in fire science by ensuring that their IFSI coursework, through ACE accreditation, can be accepted toward the degree completion requirements by any of the degree programs. IFSI has partnered with the Florida State Fire School, for Illinois firefighters to transfer their associates degree to the University of Florida (UF) for enrollment into the UF on-line baccalaureate Fire and Emergency Services Degree at in-state rates.

In related college degree work, IFSI's Librarian continues to offer a graduate-level course in Special Library Administration at GSLIS. In addition, IFSI has a long-term vision of working with other campus units to include homeland security and fire science curriculum and lectures in existing degree programs such as architecture and engineering. In FY 2004, IFSI cooperated with the School of Architecture to deliver fire and fire service related lectures to architecture students, and eventually continuing education to practicing architects. IFSI also supported a technical writing course and is seeking additional interdisciplinary teaching opportunities. IFSI also envisions the creation of homeland security certificate programs, offering fire science courses that are already accredited by ACE as University of Illinois (U of I) credit courses. It may be possible to develop a 4-year scientific degree program as a joint effort with other academic units at UIUC. One such degree possibility could be fire and arson science baccalaureate degree that would draw from science, engineering, law, Police Training Institute (PTI) law enforcement, and IFSI fire service courses.

**Industry Training.** This program area remains limited in scope. Demands to meet the exponential growth of homeland security programs have limited resources for industry. Focus will be on serving a limited number of clients in Illinois and the Midwest region with high-quality programs.

### **Illinois Homeland Security Research Center (IHSRC)**

is focused on the fostering of interdisciplinary collaboration to address broad issues in homeland security research and technology. The Center matches needs to resources and, through collaboration with IFSI, is creating a test bed for emerging technologies, concepts and products. In addition to seeking funds for focused research, IHSRC is developing outreach and educational programs, building government and private-sector partnerships, and providing a conduit for timely interactions on critical issues. By combining the University of Illinois science and engineering resources with the 'down and dirty' training and extensive first-responder knowledge base at IFSI, the Center will serve as a state and federal resource to support current and future homeland security needs.



#### *The Center functions to:*

1. Foster research partnerships between academic institutions throughout the State of Illinois and both private and public partners;
2. Develop synergistic and interdisciplinary abilities to identify and resolve homeland security issues, and set national practices and standards;
3. Conduct research, outreach, and training on terrorism prevention and homeland security; and
4. Provides direct support to the State of Illinois, local communities, and the Federal Department of Homeland Security on technology applications, terrorism prevention and Homeland Security planning, policy, response, and recovery issues.

#### *The Center's research, outreach and training mission is focused on:*

- Defining and addressing critical challenges.
- Supporting first responders.
- Providing authoritative and unbiased review of emerging technologies.
- Conducting action-oriented, applied research as well as long term fundamental research to support homeland security and the war on terror.
- Creating and transferring knowledge to other researchers, first responders and policy makers.
- Aiding in the transition of technologies from the laboratory to the private sector.

#### *Activities in 2004:*

- Place academic personnel in appropriate advisory roles on the ITTF.
- Develop a funded program between NCSA and the secure credentialing subcommittee of the ITTF.
- Populate the Science and Technology subcommittee of the ITTF.
- Develop relationships between IEMA, Civil Engineering and the Department of Atmospheric sciences.
- Coordinate and document campus wide homeland security activities.

## FY 2004 Budget

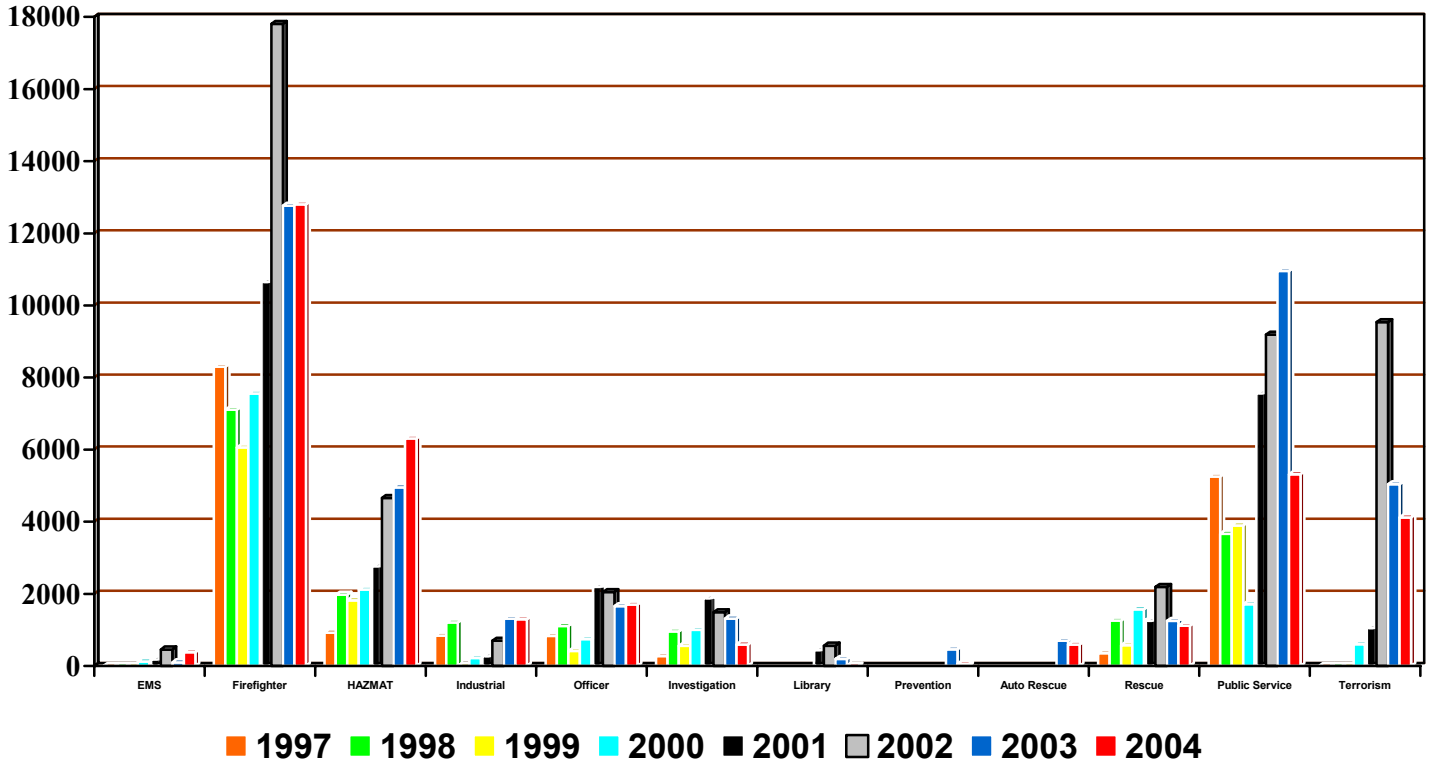
IFSI does not receive State General Revenue Funds (GRF) and has traditionally depended upon the Fire Prevention Fund (FPF) (a statutory fee on fire insurance premiums) as its only source of state funding. All other funding to support IFSI operations and capital projects comes from student fees, grants, gifts, and ICR. A long term-concern has been protecting any portion of the FPF from being swept into GRF. Importantly, in 2004 IFSI worked as a member of the Illinois Fire Services Association (IFSA), with campus and the newly created State Legislature Fire Caucus to prevent a proposed sweep of all FPF funds and to enact a change to the FPF statute, which prohibits FPF from being swept into GRF. Both of these efforts were successful and the statutory change goes into effect on 1 Jan 05. A similar effort will be made in FY2005 to enact a change to the FPF statute, which would expand the FPF 1% fee to apply to automobile comprehensive and collision policies. This proposal is the number one priority of the IFSA and the Fire Caucus.

*Background.* In 1994, IFSI's share of the FPF was reduced by 8.5% in a single year. In addition, it was discovered that IFSI had received a combined total of some \$1.6 million in excess of its statutory 12.5% annual allocation of the FPF. University of Illinois (U of I) and State Bureau of the Budget (BOB) representatives agreed to step-down IFSI's share of the FPF over a 3-year period (FY1994-96), then beginning in FY 1997 IFSI would receive a fixed appropriation of \$994,100 annually from the FPF, while the remaining portion of IFSI's 12.5% share would be allocated to service outstanding debt. By the beginning of FY1997, IFSI's total debt was \$4.7 million including \$2.6 million in construction bond debt (owed to the BOB) and \$2.1 million received in excess of IFSI's statutory share (owed to the Office of the State Fire Marshal (OSFM)). Between FY1997 and FY2001, IFSI had **0% growth** in its FPF, despite annual state-funded increases for most other UIUC units during this same time period due to rising state revenues. For this five-year period, IFSI absorbed all inflation and program cost increases, while annual debt service payments increased by 190% from \$281,000 in FY97 to \$534,900 in FY2001. In 2001, IFSI worked with UIUC and the OSFM to renegotiate the debt service agreement to a fixed annual payment ending in FY2010, which enabled IFSI to receive annual percentage increases in the FPF when they occurred. The initial impact of this agreement provided an additional \$138,100 FPF increase in FY2002. This was the first budget increase for IFSI since FY1993. Since FY2002, FPF increases have been: FY03 +\$57,800, FY04 +\$217,000, FY05 +\$312,300 and FY06 is projected to be +\$253,900. These increases have been invested in staff, programs and facility enhancements.

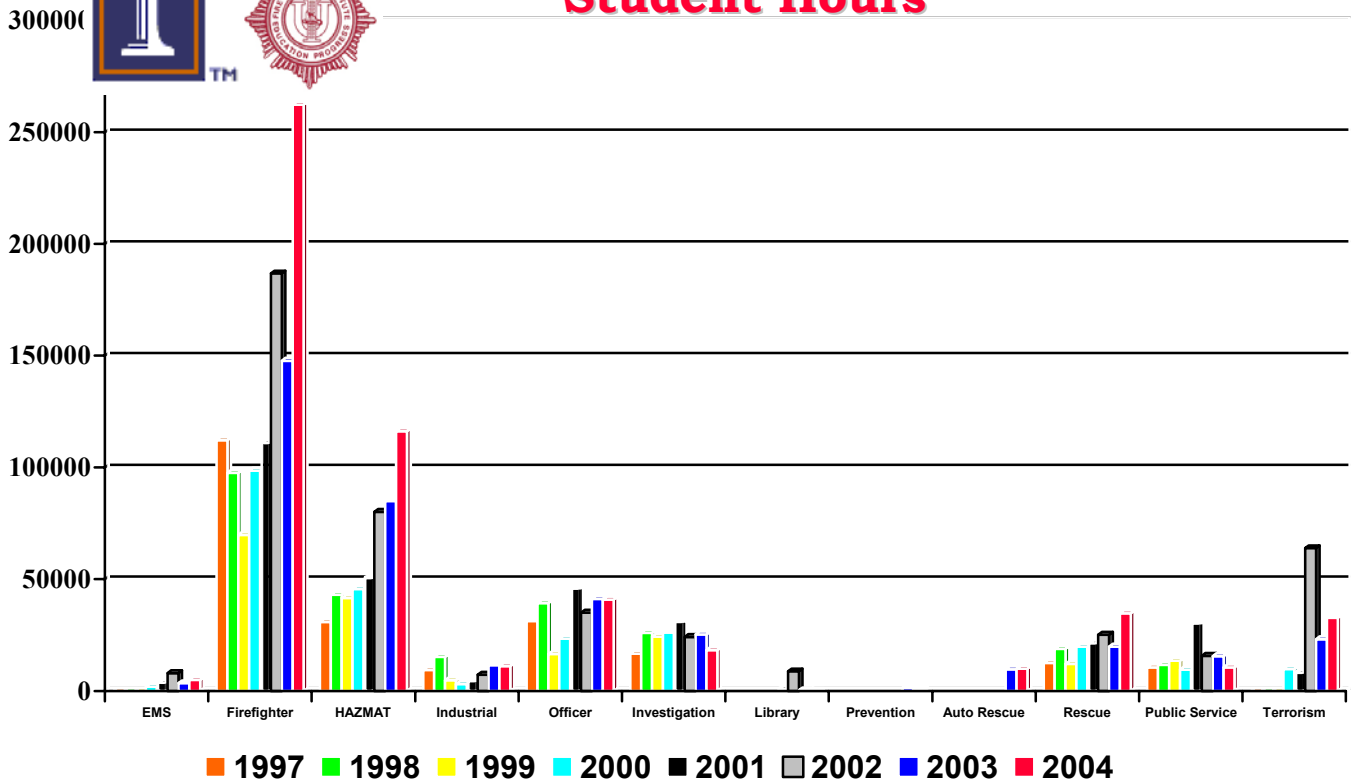
*Annual Budget Comparisons.* A comparison of annual funding shows:

	<b>FY97</b>	<b>FY03</b>	<b>FY04</b>	<b>FY 05</b>
<b>Total Annual Budget</b>	<b>\$ 2.5</b>	<b>\$6.3</b>	<b>\$7.02</b>	<b>\$7.14</b>
Fire Prevention Fund (FPF)	\$ 0.99	\$1.19	\$1.41	\$1.74
FPF Debt Service	\$0.99	\$0.34	\$0.34	\$0.34
Student fees	\$0.66	\$1.20	\$1.56	\$1.56
Grants	\$0.44	\$3.42	\$6.86	\$3.88
Gifts and In-kind support	\$0,03	\$0.05	\$0.25	\$0.30
ICR	\$ ----	\$0.13	\$0.19	\$0.19
Enrollments/ Outreach Contacts	17,647	40,832	34,299	40,000+
Student instructional hours	244,638	385,871	542,582	500,000+
Courses	461	1,018	1,274	1250+
Faculty, staff & hourly employees	75	400+	400+	450+

## FY 1997-2004 Enrollments



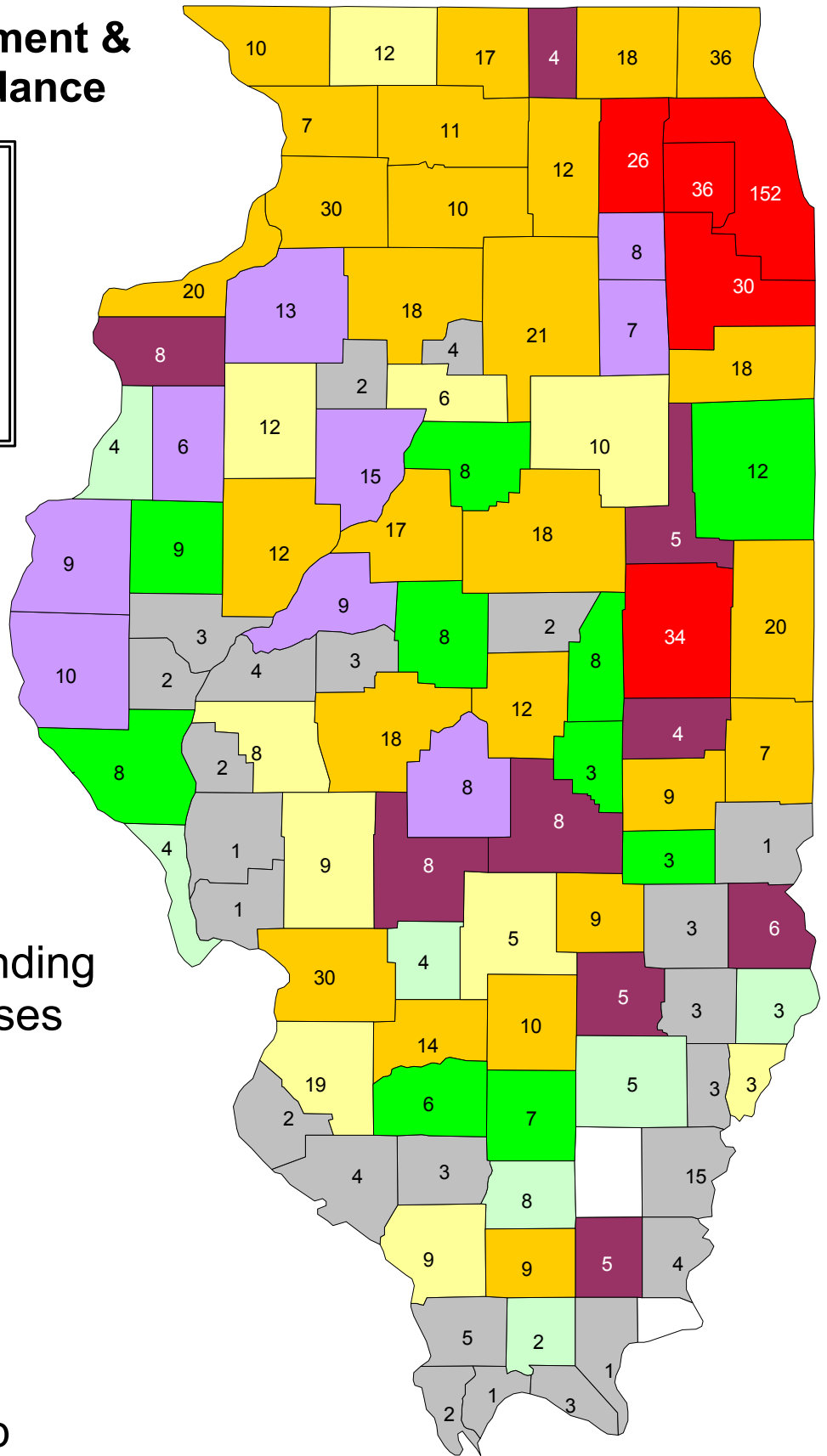
## FY 1997-2004 Student Hours





# FY 2004 Department & Student Attendance

Classes	1,274
Locations	328
Counties	100
Departments	1,077
Students	34,299
Student Hours	542,580
Class Hours	19,000
Class Days	3,625



## Firefighters Attending 1 or more courses

