



From the Director's Desk

We want to congratulate our new State Fire Marshal J.T. Somer for his appointment and Senate confirmation. The Illinois Fire Service Institute and Fire Marshal's Office are your two State fire service organizations. We look forward to working with Fire Marshal Somer and his entire team to better serve you and the Illinois Fire service.

Once in a lifetime, events occur which fundamentally alter our perceptions and realities. I believe that the terrorist attacks of 9/11/2001 and subsequent responses were just such trigger events. These events have resulted in self-examination and paradigm shifts, which challenge traditional approaches and relationships. Today, the fire service is more respected by citizens and more needed by their communities than ever before. However, with these positive realities come new demands, new missions and new expectations, which cannot be met with a "business as usual" approach. Each firefighter and department will be challenged to meet new standards of performance, missions and partnerships for mutual aid and interagency response. The new National Incident Management System (NIMS) and related National Response Plan (NRP) are providing the blueprints for these standards that will impact every firefighter and department in Illinois.

Training is one of the keys to help individuals and departments adapt to these changes. Through the Illinois Terrorism Task Force, a new one-day Unified Command Course has been developed and is being presented throughout the State. It provides an overview of NIMS, applied to a tabletop scenario in an interagency environment. Our new paradigm demands that you work together both with other fire departments and other agencies in a unified, integrated way. You can start today by visiting our web site for more information on this course at the address below:

Other homeland security-related training -- available to all First Responders -- includes core HAZMAT courses and Emergency Response to Terrorism: Basic Concepts, which are available through local instructors who have completed the appropriate train-the-trainer and online at our web site.

2004 has also been both a challenging and rewarding year for legislative and State support to the fire service. Legislation was passed and signed which protects the Fire Prevention Fund (the only source of direct State funding to the fire service) and the FY05 budget was fully funded. This includes a 100% increase in Cornerstone funding to \$300,000. The Propane Education and Research Council (IPERC) continues its funding support for LP live-burn training to include a bobtail and 20-lb tank props. Please book these no-cost courses early so we can maximize this grant. The Illinois Firefighters Association has continued its generous support with the Down and Dirty Engine and Pump CD that was mailed to each Illinois fire department this summer. We are already working on the next CD so please let us know how you are using them in your training program. We are also working toward the goal of making all Awareness-level courses available online. See details inside on both of these programs.

Whether training for new demands or traditional missions, relationships and partnerships are critical. We encourage you to schedule training courses with your mutual aid partners and to include other response organizations, whenever practical. Please let us know how we can help you meet your training goals...and thank you for your continuing support of Institute programs.

A handwritten signature in black ink, appearing to read "Richard Jaehne".

Richard Jaehne
Director

Director
Richard L. Jaehne

Deputy Director
David F. Clark

Assistant Director for
Chicago Metro
John McCastland

The Illinois Fire Service Institute Newsletter is the official publication of the Illinois Fire Service Institute, University of Illinois Urbana-Champaign. The Newsletter is published twice a year and is solely an educational and advisory aid to the fire service and individuals working to establish and maintain a fire safe environment in Illinois.

Opinions expressed in the Illinois Fire Service Institute Newsletter are those of the authors and do not necessarily represent the official opinions of the Illinois Fire Service Institute unless otherwise noted in the article.

The Illinois Fire Service Institute will consider for publication articles or items of interest to the fire service of Illinois and encourages materials from all fire-related professions for consideration.

Persons interested in furnishing articles, should forward materials to:

IFSI Newsletter
11 Gerty Drive
Champaign, IL 61820

or E-mail information to Terri Hopper at hopper@uiuc.edu. Please include appropriate graphics or digital photos.

Materials in this newsletter may be reproduced or republished provided credit is given to source and author.

The University of Illinois is an affirmative action, equal opportunity institution.



Table of Contents

From the Director	1
News & Notes	3
Table Talk	4
Fire Fighting Training Programs	5
Be Prepared for Hybrid Vehicles	8
Development at IFSI	9
IFSI Supporters	10
Agricultural Rescue Programs	11
Research Update	12
Full Facepiece Air Purifying Respirators	14
Web-Based Training	16
New CD Package Released	17
Guest Column: Accountability Tags	18
IFSI at the State Fair	19
IFSI On the Road	20
Dr. Denis Onieal Addresses Fire College	21
Explorers Fire Fighting School	22
Contacts	23
October 9 Women's Program	24

Our web site has the most current class information

www.fsi.uiuc.edu

The 80th Illinois Fire College is now in the books. We had over 1,000 registrations and students came from as far away as the Boston Fire Department. Dr. Denis Onieal, Superintendent of the National Fire Academy, was the keynote speaker. Other featured speakers included the State Fire Marshal, and leaders of the Illinois legislature's Fire Caucus. Mark your calendars for next year's Fire College which will be held June 2-5, 2005.

Director Jaehne, along with Dr. Onieal, State Fire Marshal J.T. Somer, and Chief Greg Berk from the Illinois Firefighter's Association unveiled a plaque commemorating the nation's oldest Fire College. This plaque is mounted in a prominent location on the University of Illinois' new Engineering Quad at the site of the first Fire College in 1925. Representatives of various fire service organizations attended the ceremony, along with officials from the College of Engineering and the School of Architecture, which sponsored the early Fire Colleges.

Dr. Onieal noted, both in his remarks and in private conversations that from what he sees in his travels IFSI is a premier state training agency. Our goal is to become even better. I urge you and your department to take advantage of the classes and assistance that IFSI provides. Our goal is to reach every fire department and every firefighter in the state.

Fire College also saw the kick-off of the new Illinois Fire Service Institute Fund. This is a mechanism through which both IFSI alumni (firefighters like you) and other donors (private or corporate) can provide unrestricted financial support that will help the Institute continue to provide top quality training to firefighters and other first responders. IFSI receives no general revenue (tax) funds, and depends on support from the Fire Prevention Fund (FPF), student fees, grants and gifts. The FPF does not come close to meeting our needs and we try to keep student fees to a minimum. Thus, we are placing greater emphasis on grants and gifts. If you are interested in making a tax-deductible gift, information about this fund is contained elsewhere in this newsletter and on our web site, or you can contact Jeff Courson at 217-333-8923. Your support is much appreciated.

The new "Engine & Pumping Operations" CDs have been mailed to every fire department in the state. If you have not seen your department's copy, go get it and make use of it. These CDs should prove very helpful to every firefighter who wants to understand fire engines, pumps and pumping. The CDs are designed for use in individual study, as well as by instructors, so you don't have to wait for somebody to give a class. Funding for IFSI to produce and distribute

these CDs was provided by the Illinois Firefighter's Association.

Rich Valenta, a long-time field instructor who has been developing our online and distance learning courses and materials for several years, is now working full-time for IFSI. He has a number of projects in the works, including putting all the various Awareness courses online, developing additional "Down & Dirty" CDs, and making most or all of Fire Apparatus Engineer (FAE) available online.

IFSI has taken a leading role in the University's campus-wide Homeland Security research initiatives. We also have established an IFSI Research Office focused more directly on fire department and first responder needs. This is staffed by two Ph.Ds and a secretary who will work to foster University and private inter-disciplinary research on fire service concerns. During the next year IFSI intends to host a Fire Service Research Summit to identify problems and needs that scientific researchers can address and solve.

The "Cornerstone Program" budget was restored from \$150,000 to \$300,000 for this year. Thus, we will be able to deliver more top quality hands-on training locally to Illinois firefighters. However, it is still important that multiple neighboring departments train together, both to spend this money more efficiently and also to improve your ability to work well together in an emergency. Submit your requests so we can schedule classes for you. We have both standard and customized classes available.

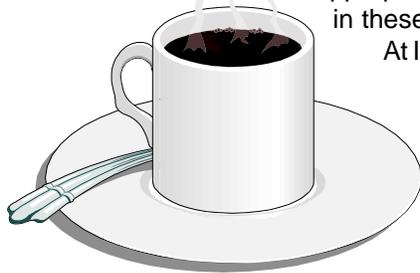
Our Program Directors and Field Instructors are available to present programs on various subjects and talk about IFSI at Association meetings. If you are hosting a meeting, and need a speaker, let us know.

The IFSI web-site is generally the best way to access information about IFSI classes and activities, plus to link to other fire service items. We urge you to view our web site frequently, since it is constantly updated. New features are being added all the time. This site makes IFSI information available directly to every firefighter in the state, without you depending on "someone" in your department passing the word along to you.

News & Notes

*David F. Clark
Deputy Director*

Table Talk



“MAC’
McCastland,
Assistant
Director for
Chicago Metro

“No one is compelled to train - it is simply the wise and intelligent thing to do. Likewise, no one is compelled to be wise and intelligent.” I’m not sure where I clipped this saying from, and I have no idea who said it, but it is so appropriate for many organizations in these times.

At IFSI, Col.”J” has set the Organizational Mission to be the best hands-on, down and dirty fire school in the U.S. “Teach firefighters what they need to know to do the job.”

This pays off when the rubber meets the road; you reach into your bag of tricks, and complete a difficult assignment. If you’ve been there, you know that the satisfaction you feel, is much greater than when you hang a certificate on the wall.

When the Illinois Terrorism Task Force set the plans in motion to create teams to respond throughout the State in a declared disaster, they were very upfront about what they wanted from people on these teams — that they could come together and get the job done. What makes this reality? REAL TRAINING !!!!

A few months ago, several members of one of the recognized FEMA/USAR teams visited our collapse site on Campus. They had gotten wind of what was taking place at IFSI and wanted to get a first-hand look. Yes, they were impressed, as most folks are when they enter “The Pound.” During the the visit, the conversation got around to what type of training this team conducted. The response was one that makes the opening quote very true. Are you ready for a short bit of the conversation, ready or not here it is: “so what do you folks in _____ do for your team training?” And the serious-as-a-heart-attack response was “we pencil whip it.” Think about that, coming from the Training guy, from one of the declared-all star teams — “We pencil whip it.” Is this like putting a cook in charge of a combat unit, or what?

Recently “Mother Nature” brought her fury on communities in this State; response Teams were summoned and met the challenges — north side — south side — C.A.R.T. — M.A.B.A.S. — the job got done — and, with unity! Following both the Utica and Roanoke jobs, I received calls from firefighters who worked those scenes, telling me that the practicals in IFSI’s Collapse Program were

more challenging than what they faced on the scene of the incidents. Do I sound a little “proud.?” You bet, I’m proud. — REAL TRAINING PAYS OFF!!!

You know, there are numerous ways to tap dance through the Fire Service, but you also must realize, you have no idea when you’re going to face the “real deal.” *Will you be ready???*

One thing that I’ve seen time and time again in my 41 plus years in this job: folks will create all sort of road blocks to getting training — and if you eliminate those road blocks, they’ll make new ones. To some degree we are witnessing this today, relative to the training being offered through the IEMA grant monies. First: “can’t afford the tuition” — meet the established criteria and your tuition is waived! Second: “need to put bodies in the firehouse, while the troops are at school.” — meet the guidelines and reimbursement and backfill expenses covered. Third: “can’t cover the cost of sending folks to IFSI” — most of the core courses needed to stand up a Team can be put on the road. Give IFSI some lead-time and we’ll do our best to deliver programs at a regional site near you.

The clock is ticking on the Federal funding that is coming down the pipe. When it’s gone — it’s gone and you know what the cry will be then: “nobody told us.”

Well, time to strike it out. If you want more information or if I offended you, I can be reached at 815-834-9201 or by magic machine < jmccastl@fsi.uiuc.edu >

STAY SAFE. KEEP THE FAITH. GIVE ME A CALL, AND WE’LL TALK.

Look for IFSI at the

**Illinois Fire Chiefs Association
Illinois Society of Fire Service
Instructors
Combined Conference**

Peoria Civic Center

October 19 - 22, 2004

Fire Fighting Training Programs

Brian Brauer
Fire Fighting
Training Program
Director

There have been a few events in the fire fighting programs that are worth taking a moment to share with the Illinois fire service as a whole:

◆ In June 2004, IFSI conducted the first "RIT Under Fire" program. This intense class took the available Saving Our Own(c) and RIT skills from other programs and brought them to a new level, applying these skills under fire conditions with complex rescues. The class was repeated again in August 2004, and is listed below for 2005.

◆ Certified Firefighter II Academy continues to grow in popularity. This fall marks the largest class in recent years, due to a combination of positive factors. If your agency is interested in seats in the Spring 2005 Academy, early registration is strongly recommended. If you know that you'll need a seat but don't yet have a candidate hired, you may reserve a seat with no name for up to 30 days before the class. (Your department will still be billed if you don't cancel this seat before the deadline).

◆ Fire College 2004, our 80th annual event, was a success. Attendance remained steady and the student and staff feedback was overwhelmingly positive. Changes for next year include improving the online notification process and streamlining the registration flow. If you have course suggestions or ideas, please send them to me in writing.

◆ With the success of the existing online Firefighter II and awareness programs, plus the demand for small, local classes for Fire Apparatus Engineer (FAE), IFSI will be adding an FAE program online in Summer 2005. I receive many requests for local FAE courses, but most departments are unable to dedicate on-duty staff for the time required or cannot muster enough students to offset the costs. Watch the website for details as this project moves forward.

◆ **Funding available for Tower Burns.** A portion of the Cornerstone funding has been set aside for fire organizations that would like to contract the IFSI facilities for an eight-hour burn. This grant covers the costs of one supervisor for the burn, stokers, and wooden props and burn materials. These must be scheduled at least one month in advance, and a minimum of three fire departments and 35 people are required. This program is ideal for MABAS divisions and other Fire Associations that are looking for live-fire training as an adjunct to a local training program. Funding is limited. For additional information, please email me at bbrauer@fsi.uiuc.edu.

Here's what's on tap for Fire Fighting Programs for Spring 2005:

February 27 - April 8	Certified Firefighter II Academy
April 18-22	Fireground Company Officer
April 18-21; 26-29	Fire Apparatus Engineer, (Quad Cities)
April 25- 29	RIT Under Fire
May 9-13	FAST (Fire Attack Suppression Techniques)
May 16-20	Smoke Divers (Breathing Apparatus Specialist)
June 1-5	81st Annual Fire College

Contact Brian Brauer with your questions: brbrauer@fsi.uiuc.edu

I would like to extend a personal invitation for you to attend the 81st Annual Fire College. As you plan your attendance, keep these 2005 deadlines in mind:

April 1	Registration opens
May 2	Last day to register without incurring a late fee
May 13	Course notifications sent to valid email addresses
May 20	Last day to cancel Fire College registration
May 27	Last day to advance register for Fire College. Any registrations received after this date will be treated as "at the door registrations."
June 1 - 5	81st Annual Fire College

Library Updates & Highlights

Lian Ruan
Head Librarian

In January 2004, the Library was moved across the hall to Room 135. The new public library area consists of a reference/circulation desk, user study area, break corner and computer laboratory. A new VCR/TV machine was added to preview videotapes. Half of the previous library area became the Library Administrative Office, where head librarian, technical services librarian and grant project teams work. The other half became the Institute's Information Technology Office.

Diane Richardson, Reference and Training Librarian, joined the library team in March. Diane's main duties include reference services, user training workshops and other related work in public service area. She is a graduate of University of Illinois at Urbana-Champaign's Graduate School of Library and Information Science (GSLIS). She has worked at the University of Illinois at Chicago's Library of the Health Sciences on the Urbana-Champaign campus and at the Virginia (Illinois) Memorial Library.

The Library staff works closely with the Homeland Security Research Center to do research and find government reports and documents. The Library staff has added the leisure reading rack and the "Authors We Know" bulletin board in March. Articles you have written can be included on the bulletin board.



In Spring 2004, the Library staff began participating in a virtual reference service, called MyLibrarian, provided through the cooperative work of East Central Illinois librarians, organized by Lincoln Trail Libraries System (LTLS) (<http://www.mylibrarian.info/>). The MyLibrarian service is made possible by the Illinois State Library's AskUsIllinois virtual reference project, a US Department of Health and Human Services' Centers for Disease Control and Prevention grant, and through the cooperative efforts of Lincoln Trail Libraries System, participating LTLS member libraries, and the Illinois Department of Public Health. To further partnerships within the library community, the Library joined OCLC (Online Computer Library Center) in July 2004.

The annual IFSI Library Committee Meeting was held on April 23, 2004 at IFSI. Eight committee members attended the meeting. The Committee is looking for new committee members. If you are interested, please contact Lian Ruan. To know more about the library committee, its members, bylaws, and annual meetings, visit the library's web site at <http://library.fsi.uiuc.edu>, click Committee at the bottom right corner.

Lian and Professor Linda Smith managed the Special Libraries Association's research grant and the University Campus award on the User Survey of Fire Related Library for six fire libraries. Lian completed library site visits in April and May. Thanks for your support to the project. We have received a total of more than 300 survey responses from all six libraries so far.

Lian also received a new grant, entitled "Putting Professional Development into Practice," from the Greater-Midwest Region Office, National Library of Medicine. It aims to improve Illinois Emergency Medical Technicians' access to the National Library of Medicine's biomedical information resources by providing training workshops to four fire departments — Chicago, Peoria, Rockford and Urbana-Champaign.

The Library received donations from Larry Walsh, Heather Bajema, Sharon Dotson, Cathey Eide and Brian Brauer.

If you conduct fire investigations, how do you know if you're doing a good job? Do you think your work is good if most others agree or accept your conclusions or if your suspect is sentenced to jail time? What or whom do you rely on to "check your work?"

Most Fire Investigators have committed to a great deal of training and education. Like all fire service professionals Fire Investigators must understand that they should never stop learning. If, as an Investigator, you think that you've "seen it all" or "learned all there is to know" then you are most likely setting yourself up to fail.

Certainly all the actions conducted during a fire investigation potentially come under very strict public or legal examination. Investigators must be prepared to answer to the legal system and to the public they serve. But to avoid potential problems, investigators should allow a close review of their investigative procedures and techniques.

“Check Your Work”

I would recommend the following considerations for Investigators:

1. Develop and utilize departmental guidelines based on recognized standards.
2. Search out and take advantage of current educational opportunities.
3. Develop a network of investigators through local, state and national organizations.
4. Utilize your network to ask questions and get ideas from others.

A skilled Fire and Arson Investigator should always be willing to question if they are performing to the highest standards. We owe it to the agencies we serve, to the public and to ourselves.

*Eddie Bain
Fire Investigation
and Fire
Prevention
Program Director*

IFSI Participates in the Risk Watch Program

Eddie Bain, IFSI's Fire Investigation and Fire Prevention Program Director, has been active in promoting the Risk Watch program in Illinois. Eddie serves on Illinois' Risk Watch Champion Management Team. The team provides guidance and direction to coalitions that are using or planning to use the program. Communities are encouraged to build coalitions between EMS providers, school districts, fire and police departments and the business community, among others.

Risk Watch, developed by the National Fire Protection Association (NFPA) gives teachers, parents, and safety advocates the tools they need to teach kids the skills and knowledge necessary to make positive choices every day and prepare them for unexpected

events. Fire and burn prevention are just two of the components of the program.

Eddie was busy in July organizing two training workshops in Springfield, with a grant from FEMA, to get the coalitions more materials.



IFSI Field Staff Instructor Receives Chief of the Year Award

Chief Rick Haase of the Staunton Fire Protection District received the Volunteer Chief of the Year Award during Fire-Rescue International held in New Orleans in August. The award was presented by Fire Chief magazine editor Janet Wilmoth and John Randjelovick, president of Pierce Manufacturing, Inc.

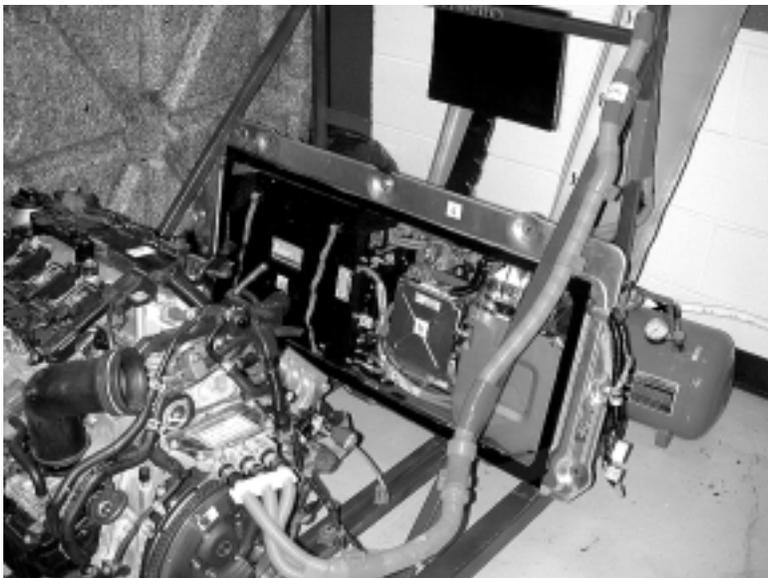
Chief Haase has served the Staunton department for more than 23 years. He was named 2001 Illinois Volunteer Fire Chief of the Year by the Illinois Fire Chiefs' Association. Chief Haase has been a field instructor for IFSI since 1996.

Be Prepared to Deal with Hybrid Vehicles

Duane Bales
Auto Extrication
Coordinator

Articles are abounding and the Internet is buzzing with concerns about the new hybrid vehicles out on the road today. The fire service will continue to be involved in rescues at automobile accident scenes and will need to be better prepared to deal with this emerging technology. Currently on the roads are Honda Insights, Honda Civics and the first and second generation Toyota Prius. And, there are more to come. In 2005 and 2006 General Motors plans to release the Silverado and Sierra light truck, Saturn Vue, with twin electric motors, Equinox SUV, Tahoe and other SUV's. Ford will introduce the Escape model. DaimlerChrysler plans to release the Ram pick-up and possibly a hybrid version of the Mercedes S-class. Toyota plans to release a hybrid version to the Highlander SUV. It has been projected that 20 to 30% of all new vehicle sales will be hybrids and it looks like that projection is coming true.

Unfortunately, there is no big distinction in design in most of the hybrids for the rescue



personnel to be able to recognize a hybrid as they respond to the accident scene. So what do we do to prepare ourselves to handle a hybrid rescue?

First of all, I can't overemphasize the importance of doing a scene survey upon arrival at the accident. Not only are you looking for the hazards around the outside, you are checking for what is inside beyond the number of victims and their possible entrapment. A big problem is that we can get "tunnel vision" and neglect the total scene and just see one segment.

While you're doing the inner circle survey you notice the vehicle is a hybrid, now what? Remember, we are dealing with up to 500 volts of DC current in that vehicle. From what we have learned, the wiring traveling from the battery pack in the rear of the vehicle to the engine in front is heavily molded. The only way it could lose its integrity is from striking a sharp object from underneath.

If you look at the battery box in the trunk, don't be disillusioned, inside the casing is not all battery. As you notice from the picture, (see photo) half is battery and the other half is electrical components. The most common batteries installed are semi-dry gel, which are not supposed to leak no matter what position they are in.

I've heard that the 2004 Honda's are designed for the electrical system to shut down immediately if they are involved in an accident; but at this point, no documentation has illustrated that point. There are different ways to de-energize a system depending on the vehicle. The electrical system seems to be the biggest concern for the rescue personnel. How are you going to be prepared to meet that challenge?

IFSI's auto classes are constantly being updated to keep you informed on what's happening on new car construction and hybrid vehicles. What's next on the horizon? It looks like Hydrogen Fuel Cell vehicles.

Give us a call. We'll be glad to do an evening presentation and deliver an eight- or 16-hour class to keep you up to speed on what is out there on the highways.

REMEMBER: The Roadway Extrication certification will no longer be recognized by the Stare Fire Marshal's Office after December 31, 2005. Until then, the 16 hour Vehicle/Machinery Operations Transition class is being given to transition the old certification over to Operations.

Notice
Vehicle/Machinery Operations class
fees reduced from \$450 to \$350.

Development at the IFSI

Development at the IFSI is off and running! It's not something new to have individuals or corporations wanting to give to the IFSI. Many give time, equipment and supplies, and monetary donations to the Institute. Now we have a structure in place that will make it easier to contribute, and for the IFSI to recognize the donors. This will benefit those that provide support for the IFSI and in turn will ultimately help the Institute provide innovative instruction to those that will train at the IFSI for years to come.

One new and exciting initiative has been the establishment of the Illinois Fire Service Institute Fund (IFSIFund). The IFSI Fund was introduced during the 80th Annual Fire College in June. The IFSI Fund is a unique way for individuals and corporations to become a part of the IFSI. As an annual participant in the IFSI Fund, you'll be a supporter of expanded programs that will result in safer communities throughout Illinois. Plus, you'll be kept informed of the progress of the Fund's activities through the semi-annual newsletter. Each year you contribute you will also receive the annual calendar and a window decal that declares your support for the IFSI. To learn more about the IFSI Fund, the "Five Levels of Giv-

ing" or "Matching Gifts," please follow this link on our web site: <http://www.fsi.uiuc.edu/giving/fund.cfm>

You have some options on how you can give — including "web-giving." By following this link: <http://www.fsi.uiuc.edu/giving>, you can contribute directly to the IFSI Fund or the Scholarship Fund, from the comfort of your home or office. If you would rather print a copy of our giving brochure and mail a check in support of the Fund, that is also an option from our website. All donations are tax-deductible as allowed by law.

With your support, IFSI will be better able to continue to fulfill the commitment of the Institute and in turn help to achieve the mission and ultimately the vision of the Institute - "Helping Firefighters do their Work through Training, Education, Information and Research."

For information on how you can help or if you have questions about a future or past donation, please contact: Jeffrey A. Courson, Director of Development at 217-333-8923 or by email at jcourson@fsi.uiuc.edu.

*Jeffrey A. Courson,
Director of
Development*



Use the enclosed envelope to show your support for IFSI.



Bob Linster of Hurst Tools is interviewed by a local television station after donating more than \$100,000 worth of rescue equipment to IFSI.

IFSI recognizes those businesses and organizations who support our mission of helping firefighters do their work through training, education, information and research.



One Bugle Level

Arends and Sons, Inc.
Heath's, Inc.



Two Bugle Level

Champaign Fire Department
Meijers
Quizno's



Three Bugle Level

Campus Sportswear, Inc.
Niro's Gyro's
Plym Foundation
Villarreal Pizza Inc.



Four Bugle Level

Cabot Corporation
Carle Foundation Hospital
G & D Transportation
Peltor Communications



Five Bugle Level

Globe Manufacturing Company
Hurst "Jaws of Life" Hydraulic Equipment Group



Illinois Fire Service Institute Announces Scholarships

IFSI has announced recipients of training scholarships.

Jason Baron with the Channahon Fire Protection District is the recipient of the Illinois Fire Service Institute Scholarship. The scholarship will be used for Jason Baron to pursue fire service training.

The Dean Mercer Memorial scholarship is being awarded to Derek Piec of the St. Charles Fire Department. The scholarship is named for Dean Mercer who served many years as a field instructor for IFSI.

Recipients were named for two Gerald M. Monigold Memorial Scholarships. Larry Rauch with the Frankfort Fire Department is receiving a scholarship to further his education in fire service.

Eric Zielinski with the Oak Forest Fire Department is receiving a Gerald M. Monigold Memorial scholarship for his continuing education in fire service at the graduate level. The scholarships were created to honor Gerald M. Monigold, who served as the director for IFSI from 1976 until his death in 1996.

Jacob Campbell will receive the Andrew Fredericks Memorial Scholarship to pursue training in the fire service field. Campbell is a member of the Pontiac Fire Department. The scholarship is named to honor Andy Fredericks, a former IFSI field staff and New York City firefighter who lost his life on September 11, 2001.

The scholarships are awarded by the Illinois Fire Chiefs' Association with matching funds from the Illinois Fire Service Institute Education and Research Awards Program. The Education and Research Awards Committee, which manages the Program, was formed in 1990 by members of IFSI's field staff to provide funding for the education of firefighters in Illinois.

For more information on the scholarship fund or to make a donation to assist in continuing education for firefighters, contact Marcia Miller, IFSI's Director of Budget and Resource Planning at 217-333-9013

Plan Your Agricultural Rescue Classes Now

IFSI is offering Illinois Firefighters, First Responders, EMTs and Paramedics the chance to train for rescue operations at farm-related accidents. By teaming with Carle Center for Rural Health and Farm Safety, more people can be provided valuable training. Carle's program focuses on educating farmers, farm workers and farm family members to be prepared in case of an emergency. IFSI's program focuses on preparing firefighters to perform beyond what farm families can accomplish.

A class is scheduled for October 9-10, 2004 in Champaign. Visit the IFSI web site for enrollment information.

Grain Bin Rescue Classes

It is important to remember the dangers of flowing grain. Each year, people die needlessly after being engulfed by flowing grain, which acts like quicksand and can subdue a six-foot person in 15 seconds. Children are engulfed even faster.

The Illinois Fire Service Institute provides hands-on training at your town or at IFSI's Champaign Campus. To plan a Grain Bin Rescue class for your department or in collaboration with nearby departments, allow for 16 hours for class time. You will need access to a grain bin that can be cut open and preferably one that can be filled with corn. IFSI rescue tools can be used, but recommend that students use the tools that they have ready access to and ones that they will be using in case of a rescue operation.

Call 217-333-8927 to schedule a class for late Fall 2004 or Spring 2005.

Agricultural Rescue Classes

The second of two mobile classes designed for rural communities is the Agricultural Rescue Class. The class trains first responders to extricate victims from tractor rollovers, grain heads, augers and belts. Students will learn how to free victims caught in various farm equipment, including enclosed tractor cabs. Classes can be scheduled at your town or department and require equipment that can be sacrificed and cut apart. IFSI will provide the tools or demonstrate how to use your tools more effectively. Allow 16 hours for total class time.

Call 217-333-8927 to schedule a class for late Fall 2004 or Spring 2005.

*Bill Renaker
Technical Rescue
Training
Program Director*



2005 IFSI Calendar will be in the mail by late October. Make sure your department displays the calendar.

Changes in Blood Variables During One Week of Intensive Fire Fighting Training

(Condensed from an article by Smith, D.L., Dyer, K., and Petruzzello, S.J)

Denise L. Smith,
Ph.D.

Research has shown, and experience confirms, that fire fighting results in extremely high heart rates, increased body temperature and subjective feelings of fatigue. Also, fire fighting causes maximal heart rate, decreased plasma volume, decreased stroke volume (amount of blood pumped with each beat of the heart) and alterations in blood chemistry, immune function and hormonal status. The ongoing research being conducted through IFSI describes the effect of fire fighting, and the resultant heat stress, on hemostasis - the tendency of the blood to form clots - important since clot formation is responsible for a large percentage of heart attacks — the leading cause of line-of-duty deaths among firefighters. This research has investigated the effect of multiple days of fire fighting activity on blood clotting factors - especially since live-fire training involves programs conducted over several intensive days of strenuous activity and mimics what emergency workers might face in a large-scale disaster.

The study describes changes in body weight and blood clotting variables in a group

of firefighters (n=16) during a Smoke Divers course (Breathing Apparatus Specialist). This course included classroom activities on the first day and “live-fire” training exercises during the last four days. Nude body weight and blood samples were obtained at the beginning (AM) and end (PM) of each of the last four days of training. Blood values were corrected for changes in blood volume (due to dehydration). Statistical analyses were used to determine if significant differences occurred over the four days or from AM to PM.

Changes in body weight over the course of one day reflect changes in body water and the degree of dehydration (caused by sweating). It is important to measure changes in dehydration because dehydration increases the tendency of the blood to clot. As shown in Figure 1, body weight decreased each day from AM to PM by about 2 to 3.3 pounds. This change in body weight is due to a loss of body water due to sweating and emphasizes the need for firefighters to aggressively rehydrate during fire fighting activities. The loss of weight from morning (AM) to end of the training day (PM) indicates that firefighters are not able to adequately replace water loss on a short-term basis. On the other hand, there was no significant difference among the morning values. This is important information indicating that the firefighters were rehydrated by the following morning and suggests that the firefighters were able to drink enough fluid to replace sweat lost during the day. If fluid is not properly replaced prior to the next days activities, the firefighter would be susceptible

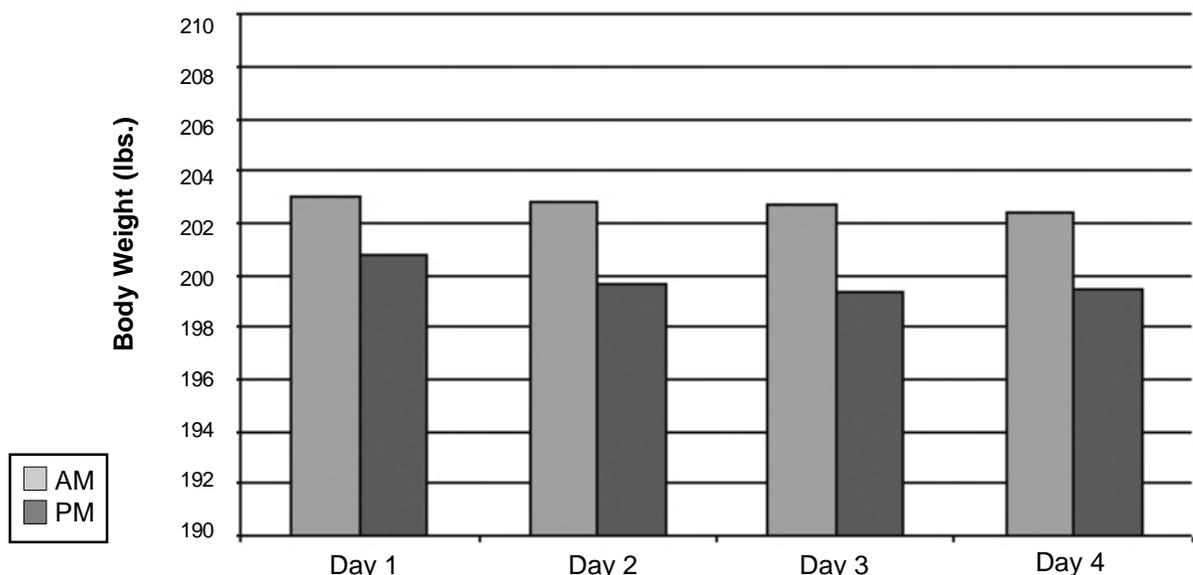


Figure 1. Body Weight Changes

to progressive dehydration. When replacing sweat loss, firefighters should avoid beverages that contain caffeine or alcohol that act as diuretics (causing the body to lose more water).

Platelet numbers increased from the AM to PM and progressively throughout the week (Figure 2). The increase in platelet numbers was independent of dehydration (that is, values are expressed after a correction has been made for changes in plasma volume). The increase in platelet number may be significant since platelets initiate the first steps in the clotting process. Fibrinogen is a protein found in the plasma that is converted to fibrin when a blood clot forms. Fibrin serves as the scaffolding or meshwork for a blood clot. In this study, fibrinogen increased as the week progressed (Figure 3). The increase in fibrinogen suggests that the blood

clotting ability may be heightened throughout the weeklong period.

In summary, this study found that strenuous training is associated with transient decreases in body weight and increases in platelet number. Furthermore, platelet number and fibrinogen values increased throughout the week. The extent to which increases in platelet number and fibrinogen may negatively impact a firefighter's health is unknown at this point. It is also important to note that this study was conducted with relatively healthy, young firefighters involved in a weeklong training program. These results do not reflect what older firefighters might experience. What is clear from this study is that additional research in the area of firefighter health in general, and the effect of fire fighting activities on the cardiovascular system in particular, is desperately needed.

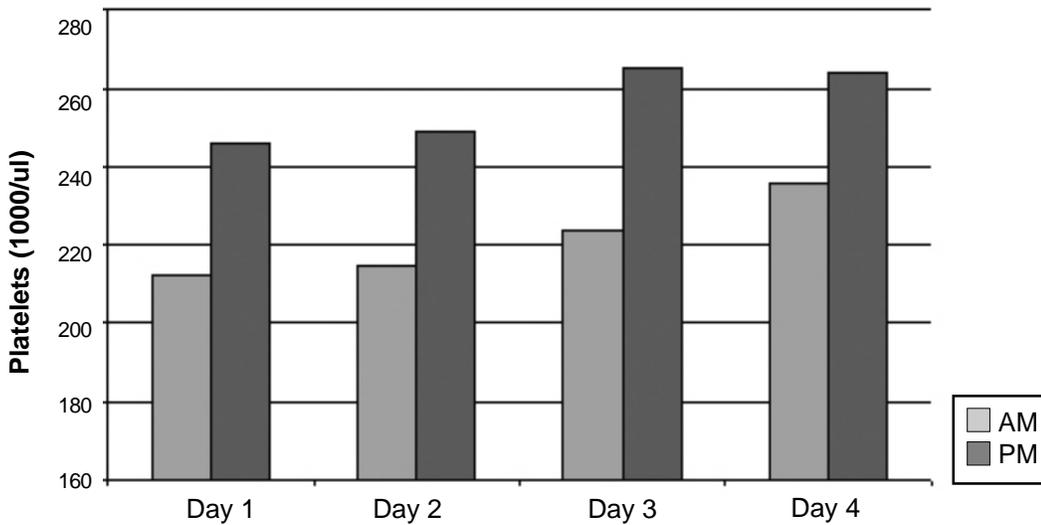


Figure 2. Platelet Changes

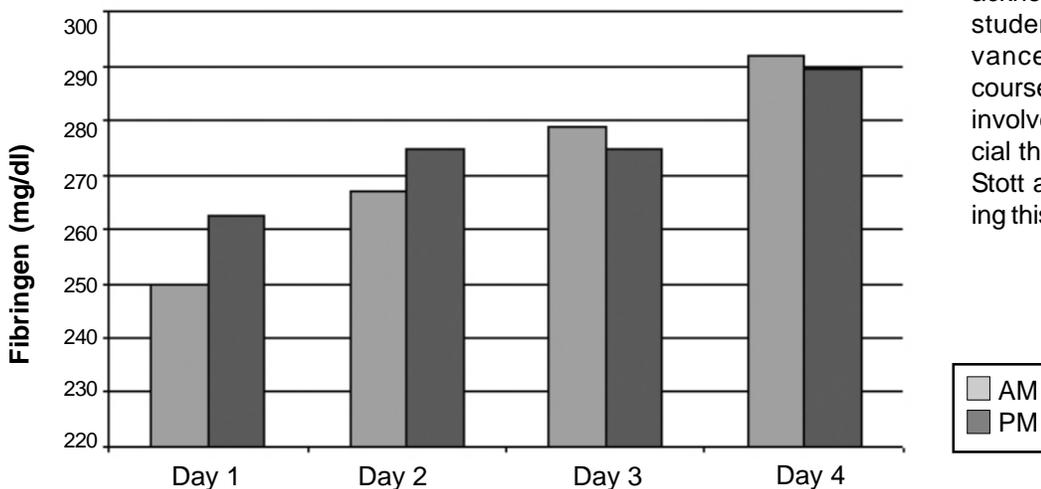


Figure 3. Fibrinogen Changes

Acknowledgements

The researchers who conducted this study would like to gratefully acknowledge the participation of students in the Fall 2000 Advanced Breathing Apparatus course for their willingness to be involved in this project. A special thanks is extended to Hugh Stott and Phil Ruscetti for making this research project possible

Statewide Distribution of Full Facepiece Air Purifying Respirators

Nancy Mason
Hazardous
Materials and
Terrorism
Training Program
Director

Distribution of Respirators

The State of Illinois, through the MABAS, is in the process of distributing full facepiece respirators to members of the Fire Service. The respirator that was chosen for distribution is the MSA Millennium Full Facepiece APR CBRN Cap 1 NIOSH / CBRN approved respirator. This mask was chosen because it met the minimum criteria established for respirators when funding was made available to purchase respirators within Illinois. The decision was made to purchase only masks that passed the standard outlined in 42 code of federal regulation, Part 84, thus assuring the Fire Service that the product being purchased would provide the best protection available according to recognized national standards.

The National Institute for Occupational Safety and Health (NIOSH) instituted a voluntary testing process for full facepiece respirators for use against chemical, biological, radiological and nuclear agents (CBRN). The testing provided the most stringent requirements for overall performance standards on the APR ensemble and included toxic industrial chemicals and specific nerve agents. The MSA Millennium met the performance standards and was approved as of 5/21/2004.

NIOSH maintains a list of CBRN approved full facepiece respirators and the testing procedures on it's website www.cdc.gov/niosh/homepage.html.

The ability to protect fire service personnel in a timely fashion was one of the 2004 goals established by the Illinois Terrorism Task Force. It was based upon concern that now, more than ever, a terrorism attack will occur in the near future, probably before the November election. Therefore, for the program to be successful and responders to receive the level of protection assured with Homeland Security Funding, agencies are urged to participate within the distribution process and begin to provide the APR's to their personnel as soon as possible.

Department Requirements

Fire Departments are required to follow the 29 code of federal regulations (CFR), Part 1910.134 for the use of respiratory protection. The respirator protection program prescribed by OSHA contains provisions for the following:

- * Written standard operating procedures
- * Respirators selected on basis of hazards
- * Instruction and training of user
- * Cleaning and disinfections

- * Storage
- * Inspection
- * Surveillance of work area conditions
- * Evaluation of respirator program
- * Medical review
- * Use of certified respirators

Employer Responsibility

1. Determination of wearer's exposure to hazards
2. Fit testing before use
3. Random inspection
4. Consultation with wearers about:
 - a. discomfort
 - b. resistance to breathing
 - c. fatigue
 - d. interference with vision
 - e. interference with communications
 - f. restriction of movement
 - g. interference with job performance
 - h. confidence in the respirator

Employee Responsibility

1. Check the respirator fit after each donning as instructed
2. Use the respirator as instructed
3. Guard against damaging the respirator
4. Go immediately to an area having clean air if the respirator fails to provide proper protection
5. Report any respirator malfunction to a person responsible for the respirator program

Fire department's within Illinois should already be familiar with the requirements outlined within 29 CFR 1910.134. These same regulations apply to the use of Self Contained Breathing Apparatus.

MABAS in cooperation with MSA and Air One has provided training sessions throughout Illinois to assist departments in meeting their legal requirements. These workshops provide tools and sample documents developed by the manufacturers for fire departments to utilize as they build the respirator protection program. The workshops also provide a means to gain free medical evaluation provided by the manufacturer. This training is mandatory in order to receive the APR's. Contact Jerry Page at 217/836-1179 or email "Air One" at 847/289-9000 for further details about this program.

CBRN APR Cautions and Limitations for Use

Respirators users should be aware of the following cautions and limitations:

- * Not for use in atmospheres containing less than 19.5 percent oxygen.

- * Not for use in atmospheres immediately dangerous to life and health or where hazardous materials have not been fully characterized.

- * When used at defined occupational exposure limits, the rated service time cannot be exceeded. Follow established canister change schedules or observe "End of Service Life Indicators" to ensure that canisters are replaced before breakthrough occurs.

- * Failure to properly use and maintain this product could result injury or death.

- * Follow the manufacturer's User Instructions for changing canisters.

- * All approved respirators shall be selected, fitted, used and maintained in accordance with applicable regulations.

- * Use replacement parts in the configuration as specified by the applicable regulations and guidance. The CBRN respirator is tested as a unit; canisters and parts from other manufactures are not interchangeable.

- * It is important to follow the manufacturer's recommendation on proper storage of the units at various temperatures. Extreme temperatures can damage materials used to manufacture the APR masks.

- * This respirator provides respiratory protection against inhalation of radiological and nuclear dust particles. Procedures for monitoring radiation exposure and full radiation protection must be followed.

- * If an unexpected hazard is encountered, such as a secondary CRBN device, pockets of an entrapped hazard or any unforeseen hazard, immediately leave the area for clean air.

- * Use in conjunction with personal protective ensembles that provide appropriate levels of protection against dermal exposure. Failure to do so may result in personal injury even when the respirator is properly fitted, used and maintained.

- * Some CBRN agents may not present immediate effects from exposure, but can result in delayed impairment, illness or death.

- * Direct contact with CBRN agents requires proper handling of the respirator after each use and between multiple entries during the same use. Decontamination and disposal procedures must be followed. If contaminated with liquid chemical warfare agents, dispose of the respirator after personal decontamination, do not try to reuse the respirator for additional entries.

- * The respirator should not be used beyond eight (8) hours after initial exposure to chemical

warfare agents to avoid possibility of agent permeation. If liquid exposure is encountered, the respirator should not be used for more than (2) hours.

- * It is important to understand the testing procedures that NIOSH-approved respirators successfully challenge. It will give insight into the use of the masks under CBRN conditions — providing insight into how to place a limit on the use of the respirator for your department.

"Tools in the Toolbox"

It was a huge undertaking to provide this asset to every firefighter within the State of Illinois. These respirators should be considered another "tool in the toolbox," as departments continue to plan and respond to CBRN and hazardous materials emergencies within their communities. Although the mask was provided by the State in the event of a possible CBRN emergency, it can also be utilized for other types of hazardous materials responses with the proper canisters and a respirator protection plan. This plan needs to include training and response to the additional types of respirator uses.

Summary

Departments should make sure they clearly understand how the respirator is to be most effectively used and also the limitations. In order to do so, proper training and response procedures must be in place, so that fire department personnel can be assured they are making a safe entry into a possible CBRN environment.

The NIOSH test data limits the use of the CBRN full facepiece respirator to that of 15 minutes. Reasoning behind this limitation can be gained by understanding the variables that were put in place during the testing procedures. These variables were established as part of a desire to have confidence in a mask that will meet the challenge of multiple types of toxic industrial chemicals (TIC) and CBRN products.

In the "real world," it will take technician level skills to properly analyze the environmental conditions to determine safe boundaries for use of the CBRN respirators. Until unknown conditions can be properly measured and evaluated, SCBA offer higher levels of respirator protection and the CBRN respirator simply would serve as a means of escape, not intended for use in unknown conditions.

2005 IFSI Calendar will be in the mail and on the Web by late October. Make sure your department displays the calendar.

Web-based Training

Rich Valenta
Coordinator

As many of you know, IFSI is committed to providing alternative methods of learning to firefighters throughout Illinois. Be it an event such as Fire College where over a 1000 firefighters come together or a small in-house course, the Institute researches the best possible way to deliver effective training. The Institute has expanded programs within the area of Computer Based Training.

We are excited to share with you an online product that will be provided to anyone who has registered with IFSI. **"Student Center"** has been under development for about 18 months. The Student Center will be a gateway to assist in all that you do at IFSI. We plan to roll out Student Center in early Fall.

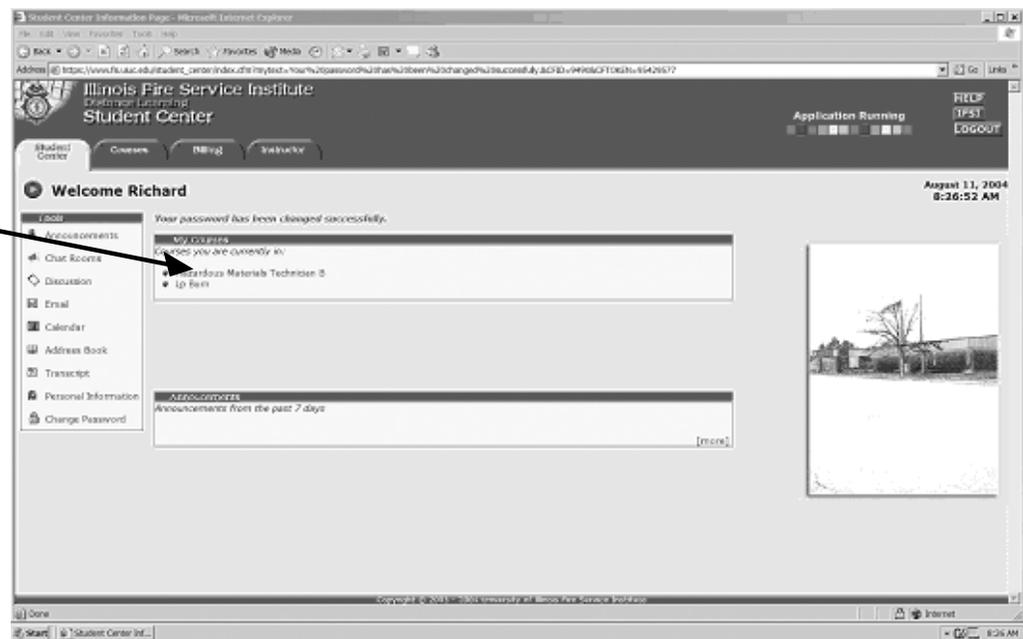
Please visit the IFSI website for further information.

I would like to give you a little taste of what Student Center is and how it will assist you with your IFSI learning experience.

First, in order to access Student Center you will have to ensure your drivers license number is in our system. Your drivers license will act as your user identification number. If your drivers license number is not in our system then please navigate to our website, www.fsi.uiuc.edu, and click the "Information Update/Transcripts" link from our main IFSI section. You will create your own secure password for Student Center access when the system goes live.

Here's an example of one of the screens you'll find on IFSI's web site as part of the "Student Center"

Students can access course materials such as PowerPoint presentations, quizzes, and homework



This is just one of the many features that you can expect from Student Center to enhance your learning experience at IFSI.

Thanks to the effort put forth by Nick Voss of the Web Based Training and I.T. department for his efforts to bring these web features online. Nick brought my ideas to life and added many of his own. The support of the administration and dedicated professionals within the Institute has allowed us to serve you better.

Please look for Student Center in the very near future.

New Down & Dirty Training CD Released

In keeping with IFSI's commitment to make training available to every firefighter in Illinois, a new Down & Dirty CD was released. Down & Dirty Fire Fighting Training Skills

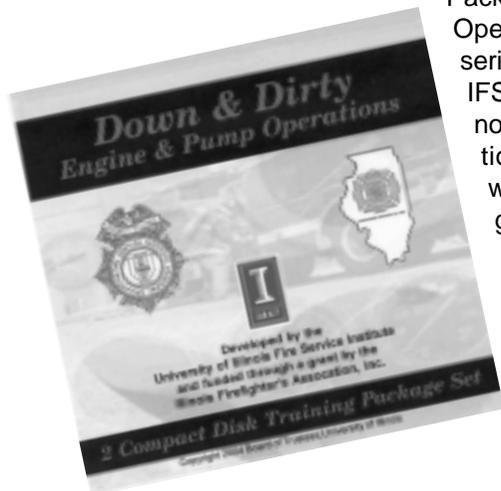
Package: Engine and Pump Operations is second in a series of CDs developed by IFSI and funded by the Illinois Firefighter's Association. The CD package was mailed early in August at no charge to every fire department in Illinois.

The 2-CD set provides instruction in pump theory, pump panel and components, hydrant types and connections. The video portion of

the CD illustrates pumping techniques for single-line, dual-line, and master streams among others. Viewers will also learn about pump maintenance and driver safety.

While the first CD, "Down & Dirty Fire Fighting Skills" was best suited for instructor-led training, with an outline and video to support training, "Engine and Pump Operations" can easily be used for self-paced and individual training. The new format also provides for instructor-led content.

The CD was developed entirely in-house by IFSI staff to provide this cost-effective method of reaching every firefighter in Illinois. It is being delivered as part of IFSI's web-based training program. Recipients of the CD are encouraged to register their CD on IFSI's web site at www.fsi.uiuc.edu. Registration assures that updates are available and provides feedback to IFSI on the package.



Web Based Training Programs

The following courses and Multi-Media projects are under development at this time. Look for them in the future to assist in your emergency response training.

Technical Rescue Awareness Online

Arson Awareness Online

Fire Apparatus Engineer Online

Please look for us at the IFSI booth to see a preview of these projects at the Chief's Conference in Peoria — October 21 - 22.

*Rich Valenta
Coordinator*

Please navigate to the IFSI web site:

<http://www.fsi.edu>

select Virtual Campus and complete the Computer and Internet Questionnaire.

Color Code Accountability Tags

J.R. Rutledge
 Distance
 Learning
 Educator

In addition to their accountability function, color-coded tags provide everyone with some idea of the rank and qualifications of personnel working on scene. The concept is very important in mutual aid operations, where the IC may not personally know each firefighter on scene. Here is how they work.

The large 4" X 6" tags are easily visible on the firefighter. Tags are made from ordinary computer paper and laminated with heavy duty plastic by a local school. A metal grommet is placed in the tag and attached to the firefighters gear by a snap ring.

The tags are lightweight and visibly flop around, providing instant identification of those who have not turned their tag in to command. The tags are so conspicuous firefighters quickly turn them in just to get rid of them. Color-coding helps command identify the rank of the individual and their qualifications. (See illustration below)

Once on scene, firefighters turn in their tags to a designated unit or the incident commander. Individual personnel (tags) are as-

sembled into functional work units, given a unit number and a tentative work assignment.* (Engine, Truck etc.) The color coding helps identify rank and qualification of available personnel for use in a group or unit.

Example

Five on-scene personnel turn in their tags to command. Command may designate a ranking officer, or SOP might say unless command specifies otherwise, the senior firefighter in the group is automatically the officer. The unit is given an identification and number such as Engine 1 or Truck 1, depending on the task or function the group will perform.

Once the assignments are made, the officer of that group has the responsibility to count and track the location of each person in his/her unit. This is usually done simply by "counting off" periodically. Units are tracked by their number and the quantity of personnel in the unit. A typical radio exchange with command might go something like this.

Engine 1:

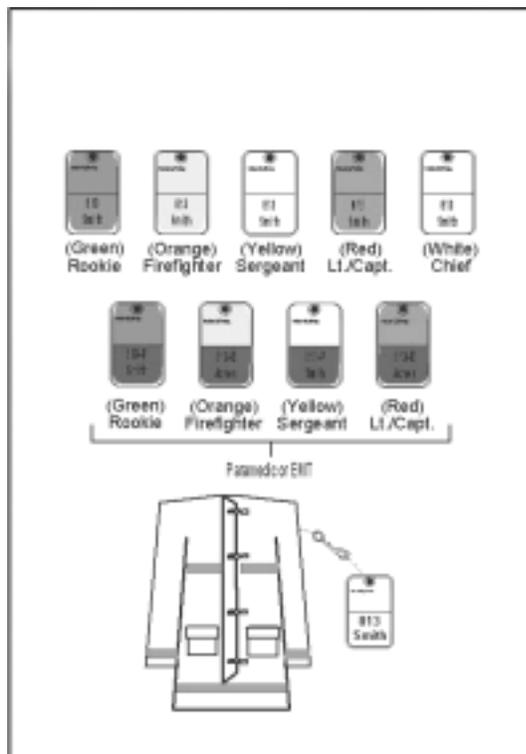
Engine one is going in Side 1 and will report a primary, with three.

Command:

Ok, Engine one in Side 1, to report a primary, with three.

Should a count be incorrect, a roll call of that unit can be made and the missing member identified.

There is no limit to the functionality of these systems but like everything it must be practiced under as realistic conditions as possible.



Top/Color = Rank
 Bottom/Color = Med. Qual
 Letter = Level(P, EMT etc.)
 Number/Name = Dept. ID

*Note:

This assumes command has been established by the first arriving unit. If an incident commander is not on scene, department SOP may designate procedures to be followed.

(Contract author for details -
 jackrutledge@mindspring.com

IFSI at the 2004 Illinois State Fair

IFSI's auto extrication demonstration was a popular attraction at the 2004 Illinois State Fair. IFSI Field Instructors staged the demonstration eight times during the Fair.



Bill Renaker, IFSI Technical Rescue Training Program Director teaches fairgoers how to tie a Lineman's Loop.

The Illinois Fire Service Institute worked in concert with other members of the Illinois Fire Services Association and presented fire-safety educational programs. State Fair attendees had the opportunity to slide down a simulated fire pole, practice making a 9-1-1 call and had their photos taken in children-size turnout gear.



IFSI on the Road

The Illinois Fire Service Institute is committed to take training to firefighters in their home areas. More than 25 trailers, trucks and other vehicles are equipped to deliver training to your site.



You can learn what training is scheduled near your home department. Visit the IFSI web site and follow the links to course schedules. Click on your county or nearby counties to see what classes are available.



The 2005 IFSI Calendar also lists classes and will be in the mail and on the IFSI web site by late October. Make sure your department displays the calendar.

Excerpted from Dr. Denis Onieal's address at the 80th Annual Fire College

"The Training for the 21st Century of which Illinois Fire Service Institute speaks is clearly evident. This is a once in a lifetime opportunity for you. Four days of hands-on and classroom training that cover firefighting, apparatus operation, officer development and leadership, rescue, EMS and terrorism.

"And while this conference is certainly going to be one of the highlights of your career, it's what you bring home to your departments that will make the difference.

"Here's a quiz for you.

- How many of you can name four teachers who aided your journey through school?
- Name four friends who have helped you through a difficult time?
- Name four people who have taught you something worthwhile?

"The lesson is this:

The people who make a difference in your life are not the ones with the most credentials, the most money, or the most awards.

"They aren't the champions; they're the ones who care about you....You help people all the time; but life is much more than that. Sometimes, it's simply about you, how hard you work and train, your contributions to the department, what you do for your family, in other words, how you live YOUR life.

"You'll find that [as you reflect on your life that people in your life] probably won't mention your job or talk about money, a nice home or car either. They'll talk about you being a partner, how much of your life you spend with them, having more time, feeling more loved and seeing you more relaxed and focused. Your career accomplishments will be more described in terms of who you helped than what rank you retired at.

"Today is a good day; the day you begin learning more about your profession, and how to deliver better services. The great majority of firefighters I meet are dedicated, focused individuals who see their role as a part of the greater good. In every case, no matter which course you attend here, you will learn things to help you improve the management and delivery of emergency services.

"This conference is about you. It's about what you do with what you learn here. It's about whether you decide to share, and by sharing,

Dr. Denis Onieal Addresses Firefighters during Fire College Opening Ceremonies

making things better where you live. All of us hope you do.

"The true test of this conference is in your behavior, your attitude, your willingness to work within your organization to make things better for those citizens who are unwilling or unable to do it for themselves.

"Whether you choose to share your knowledge and inspire others is up to you. I doubt that it will ever make your obituary, but that wouldn't be a bad thing. We here have all the faith that you'll take on the challenge. This is your opportunity. Take advantage of it.

"Each of you has a choice about the life you lead, and the influence you have. There are plenty of examples.

On any given Sunday in the fall there are 22 football players on the field who will try to change the score. At the same time, there will be players on both teams, sitting on the benches, telling everyone else what to do, commenting on their team and the opposing team, trying to get the coach's ear, cheering on their team...

"...but they can't change the score unless they play.

"At the same time, there will be 60 thousand fans in the stadium, drinking beer, yelling and screaming, shouting epithets, saying bad things about the players and the coaches (and whether their parents were married)..... -but they can't change the score.

"At the same time, there will probably be 60 million people sitting at home, watching the game on television, drinking beer, yelling and screaming, shouting epithets, saying bad things about the players and the coaches (and whether their parents were married)..... -but they can't change the score either.

"Only the 22 people on the field and in the game can change the score. The rest sit on the benches, in the bleachers and on the recliner.

"The question to you is 'do you want to change the score?'"



Dr. Denis Onieal was appointed Superintendent of the National Fire Academy in 1995. He has been a career firefighter since 1971. Dr. Onieal was the Keynote Speaker at IFSI's 80th Annual Fire College in June 2004.

Fire Explorer-Cadet Fire School

July 30 - August 1, 2004



More than 100 Explorers and Cadets met at IFSI's Champaign Campus during the summer to get hands-on experience with fire fighting. Participants between the ages of 15 and 21 spent two and half days working hoses, ladders, fire streams and structural fire fighting. The program was so successful that it will be repeated in 2005.



Explorer-Cadet Fire School expanded to four days in 2005
July 28 - 31, 2005

ADMINISTRATION

Richard Jaehne
 Director
 217/333-8926
 jaehne@fsi.uiuc.edu

David F. Clark
 Deputy Director
 217/244-9674
 dfclark@fsi.uiuc.edu

John (Mac) McCastland
 Assistant Director for Chicago Metro
 Region
 815/824-9201
 jmccastl@fsi.uiuc.edu

Marcia Miller
 Director of Budget & Resource Planning
 217/333-9013
 miller11@fsi.uiuc.edu

PROGRAM DIRECTORS

Eddie Bain
 Investigation, Prevention and Public
 Education
 217/333-9014
 edbain@fsi.uiuc.edu

Brian Brauer
 Fire Fighting Training
 217/333-9027
 brbrauer@fsi.uiuc.edu

Greg Fisher
 "Cornerstone Program"
 217/244-1220
 gafisher@fsi.uiuc.edu

Nancy Mason
 Hazardous Materials and Terrorism
 Training
 217/244-5108
 nnmason@fsi.uiuc.edu

Bill Renaker
 Technical Rescue Training
 217/333-8927
 wrenaker@fsi.uiuc.edu

PROGRAM COORDINATORS

Duane Bales
 Auto Extrication Coordinator &
 Metro-East Representative
 618/920-5901
 rbales@fsi.uiuc.edu

Mark Clapp, LP Gas Training
 217/244-7134
 clapp@fsi.uiuc.edu

Sharon Dotson, EMS Training
 217/333-4215
 tbear@fsi.uiuc.edu

Len Edling, Terrorism Training
 773/233-4425
 ledling@fsi.uiuc.edu

Tom Hatley
 Southern Illinois Coordinator
 618/942-2565
 thatley@fsi.uiuc.edu

Dan Hite, Downstate Fire Officer Training
 and Farm Rescue Training
 217/244-7134
 hite@fsi.uiuc.edu

Raymond Kay
 Hazardous Materials Training
 708/479-8294
 rkay@fsi.uiuc.edu

Jim Moore, Metro Chicago Officer &
 Industrial Training
 630/369-2008
 jpmoore1@fsi.uiuc.edu

Rudi Rinas, HazMat Operations Training
 & HazMat Regional Training Site
 Coordinator
 773/646-5770
 rrinas@fsi.uiuc.edu

Jon Rogers, Downstate Industrial Training
 217/265-8120
 jarogers@fsi.uiuc.edu

Denise Smith
 Visiting Research Fellow
 217/333-4215
 dsmith@skidmore.edu

Richard Valenta
 Web Based Training Coordinator
 847/658-5297
 rvalenta@fsi.uiuc.edu

Robert Wilson, Northern Illinois LP Gas
 Training
 217/244-7134
 mdweber@fsi.uiuc.edu

INSTRUCTIONAL SUPPORT

Bill Farnum, Instructional Support
 Specialist
 217/333-0660
 wfarnum@fsi.uiuc.edu

FACILITIES

Barry Wagner, Facilities Manager
 217/333-9015
 bwagner@fsi.uiuc.edu

Robert Foster, Class & Site Support
 217-244-5447
 rfoster@fsi.uiuc.edu

LIBRARY

Lian Ruan, Head Librarian
 217/333-8925
 lruan@fsi.uiuc.edu

PROGRAM STAFF

Kristy Berbaum
 Firefighting, and
 Cornerstone Programs
 217/244-6185
 kberbaum@fsi.uiuc.edu

Mark Berg, HazMat & Terrorism Programs
 217/333-2905
 markberg@fsi.uiuc.edu

Ann Jack Haluzak, Visiting HazMat
 Program Coordinator
 217/244-6228
 jackhal@fsi.uiuc.edu

Terri Hopper
 Officer, Rescue, Industrial, EMS and
 Industrial Programs
 217/244-7131
 hopper@fsi.uiuc.edu

Cheryl Long, Hazardous Materials and
 Terrorism Programs
 217/244-6674
 cllong@fsi.uiuc.edu

Beth Niswonger, HazMat Inventory
 Specialist
 217/244-6004
 niswonge@fsi.uiuc.edu

Debbi Short, Coordinator for
 Terrorism Training
 217/244-7135
 dshort1@fsi.uiuc.edu

Patty Wieland, Investigation/Prevention
 and Auto Extrication Programs
 217/333-8921
 pwieland@fsi.uiuc.edu

BUSINESS OFFICE

Teresa Kreps
 217/333-7050
 kreps@fsi.uiuc.edu

Debbie Ohrnstein
 217/244-6835
 ohrnstein@fsi.uiuc.edu

Jan Rusk
 217/333-8631
 janrusk@fsi.uiuc.edu

WEBMASTERS

Jon Stahler
 217/333-2163
 stahler@fsi.uiuc.edu

Tim Lash
 timlash@fsi.uiuc.edu
 217/244-6910

Nick Voss
 ncvoss@fsi.uiuc.edu
 217/265-9890

DIRECTOR OF DEVELOPMENT

Jeff Courson
 217/333-8923
 jcourson@fsi.uiuc.edu

DIRECTOR OF MARKETING

Mary Auth
 217/351-6373
 mary@maryauth.com

Wanted: Women Who Fight Fire!



On Saturday, October 9, the Illinois Fire Service Institute will host a training day for female firefighters. All women, volunteer or paid, are invited to participate in hands-on training. We will be offering a selection of four classes: Auto Extrication, "Saving Our Own," Live Burn Training, and First-In Officer Training. The fee for the day is \$50. Lunch will be provided on-site by 5 Alarm Fire Equipment Company. Our goal is to have a successful day of training and networking, and establish a statewide network of female firefighters. We would like to plan future workshops and also conduct hands-on training annually. This will be a great opportunity for women throughout the State to get together and fight fire.

The deadline to register is Friday, September 24. For more information and online registration, see the IFSI website. We look forward to seeing you there!

If you miss this year's program, watch for details on the 2005 Women's Day on the IFSI web site:

www.fsi.uiuc



**Illinois Fire Service Institute
11 Gerty Drive
Champaign, IL 61820**

