

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

## Illinois Fire Service Institute

Helping firefighters excel through training, education, information and research.



## inFIRE Conference 2011

Issues and Challenges in the  
Digital Age of Fire Information

Conference Program



### Illinois Fire Service Institute Library

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ILLINOIS



Illinois Fire Service  
Institute



**inFIRE Conference 2011**  
**Issues and Challenges in the Digital Age of Fire Information**

**Conference Program**

**SUNDAY, MAY 8**

**6:00pm – 8:00pm** Welcome Reception at Hawthorne Suites, 101 Trade Center Dr., Champaign, IL, 61820 (all attendees and speakers)

**8:15 am** Pick-up at Hotel

**8:15 am - 8:45 am** Arrival and Registration at Paratech Room, IFSI Learning Resource & Research Center (LRRC), 11 Gerty Dr., Champaign, IL, 61820

**9:00 am - 9:10 am** Conference opening and introduction - inFIRE Committee Susan Walker

**9:10 am - 10:00 am** Welcome Speech – Richard Jaehne, Director, Illinois Fire Service Institute

**10:00 am - 11:15 am** Tour of Illinois Fire Service Institute and LRRC

**BREAK**

**11:35 am - 12:30 pm** Roundtable of inFIRE members  
3 minutes each to introduce yourself, your library, your research, and your major work-related issues of the past year.

**LUNCH**

**1:45 pm - 2:45 pm** "Action Research in Fire Fighter Training: Using Libraries to Connect Students to Knowledge," Brian R. Brauer, Assistant Director, University of Illinois Fire Service Institute

This session will provide examples of how Action Research has been incorporated into firefighter training at the University of Illinois Fire Service Institute. IFSI has incorporated this type of student learning into both basic and more advanced fire fighter and fire officer training programs, and the resources of the IFSI Library and the Chicago Fire Department Library play a critical role in enabling the students to access information. Discussion will include ensuring student access, defining the projects, preparing the library for student groups, ensuring quality data sources, and capturing the student work projects as newly created knowledge for future reference.

**2:45 pm - 3:45 pm** "An Overview of the National Incident Management System Consortium," Mike Wieder, Executive Director of the International Fire Service Training Association, Oklahoma State University

This program covers the inception and development of the National Incident Management System Consortium (NIMSC) since its origin in the late 1980s. NIMSC was formed to address deviations that were present in several incident management systems that were being used around North America in the 1970's and 1980's. It will also describe how the work of the NIMSC was ultimately absorbed into the U.S. Department of Homeland Security's National Response Plan and their NIMS Incident Command System (NIMS-ICS).

**BREAK**

**4:30 pm - 5:00pm** Social time for networking, and following-up on questions/issues raised during the morning roundtable

**5:00 pm** Van pick-up to return to hotel for rest and rejuvenation

**6:00 pm** **Champaign Fire Department Welcome Party. Tour of Fire Station Six and special operations resources.** (Pick-up at hotel to Champaign Fire Department, Fire Station Six, 3911 W Windsor Rd., Champaign).

**7:45 pm** Return to hotel







**8:15 am** Pick-up at hotel

**8:15 am - 8:45 am** Arrival at Room 12, IFSI LRRC

**9:05 am - 10:00 am** "Firefighter Safety Initiatives: The Need for Quality Learning Resources," Doug Forsman, Fire Chief, City of Champaign

The scope of efforts to provide a safer operating environment for firefighters is broad and international. Both science and practice are involved in determining what can be done to buildings and to operational aspects of the profession to reduce the number of line of duty injuries and deaths. Access to and coordination of the wealth of information on this subject is critical to the information reaching the breadth of fire services and researchers. Libraries and Learning Resource Centers play a key role in organizing and accumulating the body of knowledge in this area. They are truly part of the life saving team.

**10:00 am - 11:00 am** "Digital Librarianship in LIS Education," Linda C. Smith, Professor, Graduate School of Library and Information Science, University of Illinois at Urbana-Champaign

Given developments in technology and the growing importance of digital resources, LIS education has had to respond through the development of new courses and areas of specialization at both the master's and post-master's level. This presentation will provide an overview of these developments including: characterization of the scope of digital librarianship, identification of core competencies, curriculum development at Illinois and elsewhere, the influence of grants awarded by the Institute of Museum and Library Services, collaboration among schools of library and information science, and identification of resources for current awareness.

#### BREAK

**11:20 am - 12:00 pm** "Building an Association-wide Taxonomy," Sue Marsh, NFPA Library

NFPA has never tagged any of its pages on its website, and has no controlled vocabulary for doing so. In February, outside consultants will start the process of interviewing stakeholders and developing a taxonomy for use throughout the Association. The exercise will ultimately result in a controlled vocabulary that will be managed by library staff. This talk will describe the process of introducing the concept of a taxonomy to staff, building the taxonomy through a consensus-based decision process, and applying it to all of NFPA's internet and intranet pages.

#### LUNCH

**1:00 pm - 1:50 pm** "Library Practices and Management in the Digital Age of Fire Information: Development of the Illinois Fire Service Institute Library," Lian Ruan, Diane Richardson, and Adam Groves, IFSI Library.

In 1990, the Illinois Fire Service Institute Library was established as an in-house library for IFSI full-time staff and part-time field instructors. Over the subsequent twenty years, the IFSI Library has experienced transformational growth and now answers 4,000 annual reference requests. This presentation will examine how the IFSI Library has embraced proactive library practices and management techniques in an effort to provide no-cost fire emergency library and information assistance and services to Illinois fire service personnel and citizens. User-centric outreach activities will be described, including the pursuit of grant awards, the development of intensive patron training programs, and the creation of an advisory committee, and this presentation will also discuss how the library evolved to include repositories for both historical archival materials and modern electronic records and files. Finally, this presentation will describe the efforts of the IFSI Library staff to take full advantage of the library's new home in the state-of-the-art IFSI Learning Resource and Research Center.

**2:00 pm - 2:50 pm** "Investigation and Analysis of Pipeline explosion in Gulf of Dalian China," Kang Sun, Professor, Center for Studies of Marine Economy and Sustainable Development, Liaoning Normal University.

On the basis of literature analysis and field survey, the main causes of oil/gas pipelines have been reviewed which shows that most of the pipeline accidents are catastrophic. The main failure causes in foreign countries are by mechanical damage and corrosion which are related to early construction and long term operation. The main failures in China are external surface corrosion and internal surface H<sub>2</sub>S stress corrosion which are related to material design, fabrication and construction quality and the transmitting medium in the pipe. It is pointed out that improving the material design, the selection of manufacture process, the control of fabrication and construction quality, the control of transmitting medium composition, and the standardization for new pipelines need to be improved.

**3:00 pm - 4:30 pm** Visit - University of Illinois at Urbana-Champaign, UI Library

**4:30 pm** Pick-up at UI Library to return to hotel

**6:30 pm** Conference Banquet at Biaggi's. Pick up at hotel to Biaggi's, 2235 S Neil St., Champaign, IL







**8:15 am** Pick up at Hotel

**8:15 am - 8:45 am** Arrival at Room 12, IFSI LRRC

**9:05 am - 10:00 am** "What will be the Attitude of People using Elevators for Evacuation in Super High-Rise Buildings?" SM Lo, Department of Building and Construction, City University of Hong Kong

How can we deal with this attitude if we need to promote the use of elevators for super high-rise buildings? This article will give a brief discussion on the use of elevators for escape and how people can be educated about the availability of elevators for evacuation, and how building designers and facility managers can increase people's levels of trust in this new technology.

**10:00 am - 11:00 am** "Firefighter Life Safety Research Center Studies," Gavin Horn, Director of Research, University of Illinois Fire Service Institute

The University of Illinois Fire Service Institute houses the Firefighter Life Safety Research Center (FFLSRC) as part of its statutory mission to provide a research program dedicated to studying firefighter health and safety issues. To fulfill this mission, the FFLSRC conducts research to study the combined effects of the firefighter's individual characteristics, firefighting equipment, and the fireground environment on the most common sources of injuries and fatalities in the Fire Service. We will present several projects ranging from the effects of firefighting on the cardiovascular system and risk for sudden cardiac events (leading cause of line-of-duty deaths in the US Fire Service) to changes in firefighter biomechanics from wearing personal protective equipment and conducting firefighting activities, which may lead to increased risk of slips, trips, and falls (one of the leading sources of fireground injuries). One of the main goals of the FFLSRC is to provide firefighters with access to the results of this research program through the development of Fire Service focused reports that translate the peer-reviewed science of these studies into lessons learned that can be incorporated and disseminated to the Fire Service.

**BREAK**

**11:20 am - 12:00 pm** "IFSI's Current Technological and Future Delivery Mechanisms," Rich Valenta, Program Director for Distance Education, IFSI

The Illinois Fire Service Institute has two distinct challenges with the delivery of distance learning fire training. First, being the Statutory State Fire Academy, IFSI is responsible for reaching and teaching firefighters throughout the state. The use of technology to deliver courses can be difficult due to connectivity issues. Next, a large percentage of the training that a firefighter participates in is didactic. When you combine these two issues it is difficult to teach and prepare students the skills they must understand and perform. Through the use of multi-media, audio and video lectures, and synchronous chat session, developed by IFSI, students are provided with the learning content necessary to prepare them for their dangerous duties. This presentation will cover the technological tools that IFSI is currently using and will take a look at delivery mechanisms for the future.

LUNCH

**1:00 pm - 2:00 pm** "The Application Progress of Fire Engineering in the Construction of Underwater Tunnels in China," Zheng Fang, School of Civil Engineering, Wuhan University, China.

In China, with the accelerating process of urbanization and the growing urban population, there is large population density and heavy traffic in cities. Therefore, many cities have begun to build a large number of underground tunnels. As there are high fire risks and difficult rescue in underwater tunnels, Chinese scientists and engineers have conducted lots of work to guarantee their safety. Currently underwater tunnels not only have installed a variety of different forms of ventilation and smoke exhaust systems, fire fighting systems, emergency evacuation systems, fire alarm and monitoring systems, but also called for appropriate emergency response plans. Although several undersea tunnel fires that have occurred in China have been basically controlled, relevant technical issues need to be further improved.

**2:00 pm - 3:00 pm** "Experimental Study of Extinguishment of Pool Fire with Steam Jet," K. K. Yuen, Department of Building and Construction, City University of Hong Kong

The pool fire extinguishment with an impinging water spray or jet has been widely studied in the past. The extinguishment performance was found to be questionable. However, recently, it has been proposed that pool fire extinguishment with steam jet may be of better performance. The research study for the understanding of the interactions and mechanisms of this new innovative extinguishing system is still lacking. A series of extinguishment tests using medium size pool fires with an impinging steam jet was conducted for better understanding and possible validation of the developed theoretical analysis. The flame expansion phenomenon was observed to consist of three distinct stages: the flame height-decreasing stage, the fire-expanding stage and the burn out stage. The experimental results reveal that the theoretical analysis describes the flame expansion phenomenon quite well. Based on the experimental data, the height of the fuel vapor rich core was calculated for each test case, and it was found that the height of the fuel vapor rich core was about 0.2 times of the visible flame height. The durations of the three stages (i.e. the flame height-decreasing stage, the fire-expanding stage and the burn out stage) and the flame shapes calculated using the proposed theoretical analysis compare favorably with the experimental measurements. The calculation shows that the expansion ratio of the flame width is about 2.0 in each test case of the medium size pool fire, the expansion ratio of the flame volume is approximately match the calculated value, and the calculated values of the expansion ratio of the flame radiation are close to the experimental values.

**BREAK**

**3:20 pm - 4:20 pm** "Transition Now Taking Place from the Old "One Size Fits All" System of Fire Protection at Nuclear Power Plants to the Performance-Based Risk-Informed Process described in NFPA 805," President Christian M. Dahms, Loss Control Consulting Services, Harris, Browns Ferry and Point Beach

Unidirectional and unchangeable evacuation induction system always results in huge crowd congestion and serious death hazards near egress, which has already become dangerous and inaccessible in building fire. To realize real intelligent evacuation on level of global evacuation safety, an intelligent evacuation system platform is established with the integration of Human Evacuation Route Optimization Model (HEROM) as well as the Fire Prevention -Joint Control system (FPJCS). The application results illustrate that the Intelligent Evacuation System Platform (IESP) can automatically optimize the emergency evacuation plan by intelligently changing the direction of evacuation signs with the change of the efficient width of evacuation corridors. The dense crowd streaming can also be realized in case of crowd stagnation.

**4:30 pm** Pick-up to return to hotel

**6:15 pm** Pick-up for dinner at restaurant







8:00 am - 9:30 am    **Executive Committee Meeting (only to inFIRE Committee Members),**  
Paratech Room, LRRC.

9:40 am                **Depart Hawthorne Suites for Chicago**

12:00 pm              **Chicago Sightseeing**

**CONFERENCE ENDS**



May 11-14, 2010	Building and Fire Research Laboratory, National Institute of Standards and Technology, Gaithersburg, MD, USA
May 25-28, 2009	Institute for Research in Construction, National Research Council Canada, Ottawa, Ontario, Canada
May 5-8, 2008	Safety Engineering Laboratories, Inc., Detroit, MI, USA
May 14-17, 2007	Justice Institute of British Columbia, New Westminster, BC, Canada
June 19-22, 2006	Swedish Rescue Services Agency, Karlstad, SWEDEN
June 13-16, 2005	FM Global, Norwood, MA, USA
October 11-15, 2004	Fire and Emergency Services Authority of Western Australia, Perth, Australia
May 5-9, 2003	Oklahoma City, Oklahoma, USA, Sponsored by IFSTA Fire Protection Publications
May 27-31, 2002	2nd International Fire Information Conference, London, UK
May 1-3, 2001	RJA Group Inc., Chicago, IL, USA
May 9-12, 2000	Institute for Research in Construction, National Research Council Canada, Ottawa, Ontario, Canada
May 5-7, 1999	New York State Fire Academy, Montour Falls, NY, USA
May 4-8, 1998	Metropolitan Fire & Emergency Services, Melbourne, Australia
May 4-7, 1997	National Fire Protection Association, Quincy, MA, USA
June 5-7, 1996	Worcester Polytechnic Institute, Worcester, MA, USA
1995	not held
May 1-3, 1994	International Association of Fire Chiefs, Fairfax, VA, USA
April 28-30, 1993	Factory Mutual Research Corporation, Norwood, MA, USA
April 27-May 1, 1992	1st International Fire Information Conference, Fire Service College, Moreton-in-Marsh, UK
April 25-26, 1991	University of California at Berkeley, Berkeley, CA
April 27, 1990	Rolf Jensen Inc., Deerfield, IL, USA
April 28, 1989	Worcester Polytechnic Institute, Worcester MA, USA
April 29, 1988	National Emergency Training Center, Emmitsburg, MD, USA
May 1, 1987	Institute for Research in Construction, Ottawa, Canada
June 6, 1986	National Fire Protection Association, Quincy, MA, USA
January 7, 1986	Center for Fire Research, National Bureau of Standards, Gaithersburg, MD







Brian is the Assistant Director at the University of Illinois Fire Service Institute, the statutory state fire academy for Illinois. He directs the Institute's curriculum development, implementation, testing, evaluation, and certification activities, ensuring compliance with state and national standards. This includes twenty courses that have been accredited by the US Department of Homeland Security for training of local and regional teams to respond to natural disasters or intentional acts of terrorism. Additionally, he coordinates training activities at the Institute's 28-acre training site on the southwest side of campus.

Brian applies his background in fire fighting and human resource education by serving on the Illinois Office of the State Fire Marshal's Advisory Committee, helping to guide the implementation of national standards in Illinois. He is a member of the Illinois Fire Services Association Committee on Firefighter Minimum Training Requirements, the UI Public Safety Advisory Committee, and the chair of the committee developing statewide training for emergency workers on responding to emergencies involving persons with developmental disabilities.

He is also a co-principal investigator on two campus-wide collaborative grants from the National Science Foundation that focus on how emergency responders relate to each other in response to and recovery from extreme events.

Brian serves as a member of the Edge-Scott Fire Protection District in Urbana since 1992, and is currently the Captain of Operations and the Training Officer. Brian is an Eagle Scout, and remains active in the local Scouting community as a Cubmaster for Pack 12, Scoutmaster for Troop 6, as a member of the council training committee, and as the director for the Prairieland Council's Training College for adult leaders.

Chris Dahms has 28 years experience in fire protection with 20 years in the Commercial Nuclear Power Industry. Most recently, as President of Loss Control Consulting Services providing Fire Protection services to NFPA 805 Projects at Harris, Browns Ferry and Point Beach, maintaining Member Grade in SFPE since 1992.

Previously he was the Manager of Loss Control Research and Communications with Nuclear Electric Insurance Limited (NEIL) the insurance company for the Nuclear Industry. He was responsible for department standards, department operating procedures and department communication in support of the NEIL Members and the Loss Control Department staff. He was Project Manager for the Loss Control Department for the Corporate Database; Corporate Vision Statement and Guiding Principles; the Premium Structure Group; Standards Rewrite Project and the Procedures Review Project. He conducted research and reports for the Members of NEIL and for the NEIL Organization on various emergent insurance or loss prevention issues.

Prior to this he was a Loss Control Supervisor for Atlantic Mutual Insurance Company where I administered the Loss Control Department budget and a professional staff of four, responsible for the Department's productivity with emphasis on customer loss prevention services. I assisted with the development of their corporate loss control services manual ASTEP. The Philadelphia office had the most exposure in the company news for their client services under my direction at the time.

He was born in Philadelphia Pennsylvania, and grew up in the northern suburbs attending Cheltenham High School and Temple University where I received my BS in Mechanical Engineering in 1982. I moved to Delaware in 1983 to be equidistant between my spouses employer and my A&E position responsible for HVAC, plumbing and Fire Protection design.

We love Delaware but my assignments have involved travel over the duration of my career.

I enjoy playing sports and I'm the Manager/Captain of my ice hockey team. I also enjoy mountain biking, tennis, skiing and raising my three kids, Brad – 23 working on Wall Street in NY; Randi – 20 Wilmington College - Psychology, Wilmington DE and Sammi – 19, University of DE Early Childhood Education. I live in Newark DE with my wife Sue.







Zheng Fang, a Professor at School of Civil Engineering, Wuhan University, China, an Associate Director for Hazard Monitoring and Control Research Center, Wuhan University, a member of Chinese Fire Protection Standard Committee, has been in charge of many subjects aided by the National Natural Science Foundation of China and local scientific research funds to carry out theory and engineering application research on ventilation and smoke exhaust, evacuation and water spray in underwater tunnel, and has completed the full-scale fire experiment researches in Wuhan Yangtze River Tunnel and Xiamen Xiang'an Undersea Tunnel.

Chief Forsman is completing his 47th year in the fire service, starting as a volunteer firefighter in Kalamazoo Township, Michigan. He has served as a Fire Chief for 26 years in the communities of Wabash Township, Indiana; Norfolk, Massachusetts, Greeley, Colorado and Champaign, Illinois.

Doug holds degrees in Fire Protection and Safety Engineering Technology and Trade and Industrial Education from Oklahoma State University. During his career he has served as the Chairman of the International Fire Service Training Association and the International Fire Service Accreditation Congress. He subsequently filled the role of Executive Director of those organizations and as Director of Fire Service Training for the State of Oklahoma.

Chief Forsman is a Life member of the National Fire Protection Association and has served on its Standards Council and Board of Directors. He is immediate Past President of the Colorado Fire Chiefs' Association and has served as the Chairman of the National Fire Protection Associations' Standards Committee on Fire Service Professional Qualifications Standards.







Adam Groves has been the archivist and metadata librarian at the Illinois Fire Service Institute since 2005. In this position, he administers traditional archival collections containing historical records, photographs, and artifacts, and also manages the digital metadata that is used to describe and store modern electronic records and files. He has an M.S. in library and information science from the University of Illinois at Urbana-Champaign and a B.A. in history from Ohio University.

Gavin Horn is the Director of Research at the University of Illinois Fire Service Institute and a Senior Research Scientist with the Department of Mechanical Science and Engineering. Gavin received his PhD in Mechanical Engineering from Illinois in 2004 and a Masters in Fire Protection Engineering from the University of Maryland. His research is focused on developing technology in support of firefighter health and safety. Gavin also serves as volunteer firefighter with Savoy Fire Department.







Richard Jaehne has served as the Director for the Center for Public Safety Research (Illinois Fire Service Institute) since 1997. He is a member of the Illinois Governor's Terrorism Task Force and Co-Chair for the Task Force's Training Committee. He is the co-chair of the Homeland Security Research Steering Group at the University of Illinois at Urbana-Champaign (UIUC) and is an adjunct faculty member in the Arms Control, Disarmament and International Program at UIUC. In 2002, he developed and led a series of 17 homeland security planning workshops in Illinois culminating in a two-day Homeland Security Summit. The Institute has over 500 full and part-time faculty and staff with modern emergency response training facility and delivers training to more than 50,000 emergency responders annually. He leads an interagency team that has developed and delivers unified command training program, which meet the new National Incident Management System (NIMS) standards to first responders, local and elected officials, and to the US Postal Service. In 2006, he received the Mutual Aid Box Alarm System (MABAS) President's Leadership Award for sustained support in fire and homeland security preparedness and programs. The Institute also received an Illinois State Police Department Special Award for its work in emergency incident training of the state interagency. Director Jaehne supports the development of IFSI China programs. He has frequently visited China since 2006 and established strong collaborative relationships with several key institutions. In October 2008, he was invited to attend the 7th International Symposium on New Technologies for Urban Safety of Mega Cities in Asia (USMCA 2008) at Tsinghua University. He gave a keynote speech on U.S. emergency response systems and was invited to serve as a Board Member of the new Asia-Pacific Association for Public Safety, Science and Technology. In 2011, he led an international team to Mumbai, India to conduct a national Disaster Response and Emergency Operations Center Forum for national, state, provincial and local disaster managers and key decision-makers, which provided important recommendations for the implementation of the Indian Disaster Response System.

Dr SM Lo is an associate professor and former associate head of the Department of Building and Construction, City University of Hong Kong. He is a registered building and construction professional in Hong Kong and has been awarded a PhD in Architecture from the University of Hong Kong. Before starting his teaching career, he was a building official in the Buildings Department, Hong Kong Government for over 12 years and was responsible for scrutinizing building development proposals, managing building maintenance and repair projects, inspecting dangerous buildings, and drafting building related legislative proposals and codes of practices. In late 1994, he joined the City University of Hong Kong as a faculty member. For the past decade, he has successfully obtained over 10 million Hong Kong dollar research grants, including, as principal investigator, 10 General Research Funds from the Research Grant Council (RGC) of Hong Kong Government, Hong Kong Housing Authority Research Grants and private donations in studying egress modeling, pedestrian flow, human behavior in fire, risk analysis, system modeling and building legislations. He has published over 250 academic articles including over 110 refereed journal articles. He has been invited to give key-note presentations in many conferences including the 2006 City Security and Safety Management International Conference organized by the Beijing Government, 2007 4th Conference on Fire Safety Engineering, Performance-based Approach and 2008 International Crisis Management Symposium at Japan. He has been elected as a Fellow of the Royal Institution of Chartered Surveyors and the Hong Kong Institute of Surveyors, and member of Hong Kong Institute of Engineers. He has also been invited by the Hong Kong Government as the non-official members to serve for many Government committees, including the Contractors' Registration Committee in vetting the application for registration as construction contractors in Hong Kong, the Fire Safety Committee and is currently the Engineering Panel Member of the Research Grant Council, Hong Kong Government. He is currently the program leader for the undergraduate Surveying program and is currently supervising 8 PhD students. He is experienced in program development, program management and accreditation process. He was invited by the Hong Kong Council of Academic Accreditation (HKCAA) to serve as the Panel Chair of the accreditation for the Construction Discipline of the Vocational Training Council (Hong Kong), and the members of many accreditation panels for many construction professional bodies. In addition, Dr. Lo is the honorary visiting professor of several major universities in China, such as the Xi'an Jiaotong University, Wuhan University, Harbin Institute of Technology, Academy of Armed Police of China, etc.







Sue Marsh has been the Librarian at NFPA's Charles S. Morgan Technical Library since 2004. Prior to coming to NFPA she worked for the Research Libraries Group (RLG), and was a business librarian at Harvard Business School, and the University of Connecticut. She earned her Master's degree in Library and Information Science at Simmons College while working full time at Cambridge (MA.) Public Library. She is a former Chair of the Executive Committee of inFIRE, and is active in international, state and regional library associations.

Diane Richardson is the reference and user training librarian at the Illinois Fire Service Institute. She is also responsible for outreach, collection development and supervision of the library's student reference team. Diane has an M.S. in library and information science and a B.S. in journalism, both from the University of Illinois at Urbana-Champaign. She has been an IFSI librarian since 2004.







Dr. Lian Ruan has served as Director/Head Librarian since 1999 and Director of IFSI China Programs since 2006 at the Illinois Fire Service Institute (IFSI), University of Illinois at Urbana-Champaign. As the statutory state fire academy library and the only fire science dedicated library in Illinois, it provides outreach library services to firefighters at no cost. As CALA life member, Dr. Ruan has served on the following CALA committees: Chair, CALA Finance Committee (2009-); member, Evaluation Subcommittee of the 2012 Joint Conference of Librarians of Color (2011-); member, CALA Annual Award Banquet Arrangement Committee (2011); Chair, Public Relations Committee, CALA Midwest Chapter (2008-2009); Chair, Sally Tseng Professional Development Grant Award Committee (2008-2009); Members, Mentorship Program Committee (2008-2009); Member, Scholarship Committee (2004-2005). She is elected Vice President/President-Elect of CALA Midwest Chapter (2011-2012). Dr. Ruan has also served on state and international committees, like Illinois State Library Advisory Committee (2009-), ILLINET Network Advisory Council (INAC) (2003-), inFIRE (an international fire library consortium) Committee (1996-2001, 2009-), and Downstate Representative, Board of Directors Special Libraries Association Illinois Chapter (2002-2004). Dr. Ruan earned her doctoral degree from the University of Illinois Graduate School of Library and Information Science (GSLIS) in January 2011 and has taught courses at GSLIS since 2002. She was the winner of the University of Illinois Chancellor's Academic Professional Excellence (CAPE) award and the Special Libraries Association (SLA) Diversity Leadership Development Program award. She received multiple grant awards from the Illinois State Library, Special Library Association, the University of Illinois at Urbana-Champaign, and National Library of Medicine. She has helped organize the Chinese Librarians Summer Program since 2005 in cooperation with partners both in the United States and China. The annual program has trained 128 Chinese library directors and librarians from 51 organizations all over China as June of 2010. The 2011 program is under preparation.

Linda C. Smith is Professor and Associate Dean for Academic Programs in the Graduate School of Library and Information Science at the University of Illinois at Urbana-Champaign, where she has been a member of the faculty since 1977. She is past president of the Association for Library and Information Science Education and current president of the American Society for Information Science and Technology.







#### ACADEMIC EXPERIENCE

Associate Professor, Center for Studies of Marine and Sustainable Development,  
2010-present  
Associate Professor, Management School, Liaoning Normal University, 2001-2010  
Lecturer, School of Policy and Law, Liaoning Normal University, 1988-2001  
Post doctor, Center of Industrial and Business Organization, Dongbei University of Finance  
and Economics, December 2005-2008

#### EDUCATION

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Management School, Dalian University of Technology,  
Ph.D., Technology, May 2005  
Ph.D. Thesis Title: Study on theory, methods and applications on strategic alliance for  
n-persons cooperative game theory  
School of Mathematics, Liaoning Normal University,  
M.E., Mathematical History, June 1988  
School of Mathematics, Liaoning Normal University,  
A.B., Mathematics, June 1985

#### RESEARCH INTERESTS

Emergency management, security system design and simulation, and complex system model.  
Game theory and application.

#### REFEREED JOURNAL ARTICLES

"The value of N-person dynamic coalition games". Dalian University of Technology, Journal, 47:3  
(March 2007), 448-453.  
"An evolutionary game model of emergency about the rhophiloma esculentu capture". Journal of  
System Engineering, 24:11 (November 2006), 59-62.  
"The mechanism design of enforce monopoly divestitures". Research on Finance and Economic  
Issues, 283:6 (June 2007), 46-53.  
"Three fishery problems and policy adjustment for public management". Journal of public  
management, 4:2 (April 2007), 30-37.  
"Dynamic coalition formation and the value". The Eleventh International Symposium on Dynamic  
Games and Applications, U.S.A. , December 2004

Mike Wieder serves as Executive Director of the International Fire Service Training Association (IFSTA) and Associate Director and Managing Editor of Fire Protection Publications at Oklahoma State University. In his more than 26 years with IFSTA/FPP he has written or edited more than 35 fire service textbooks and numerous government reports. He holds undergraduate and graduate degrees in fire protection, occupational safety, and adult education and has served as a firefighter in Pennsylvania and Oklahoma. In 2004 he was awarded the ISFSI's George D. Post National Fire Instructor of the Year award. In 2008 he was awarded IFSTA's Everett E. Hudiburg Award for contributions to fire service training. He has served as the Secretary of the National Incident Management System Consortium since 1992 and is Chair of the NFPA 1026, Standard for Incident Management Personnel Professional Qualifications committee.







Ir Dr Yuen obtained his first degree in Mechanical Engineering at the University of Hong Kong and his PhD in Fire Dynamics and Engineering from the School of Mechanical and Manufacturing Engineering, University of New South Wales, Australia. He is currently the Associate Professor of the Department of Building and Construction at the City University of Hong Kong. In early 80s, he had worked as a lecturer in the Department of Building Services Engineering at the Hong Kong Polytechnic University. Ir Dr Yuen is a fire engineer and also a building services engineer by profession. He is a Chartered and Registered Professional Engineer and Cooperate Member of various international professional bodies including the IFE (UK), SFPE (USA) and HKIE (HK). The research interests of Ir Dr Yuen include fire safety and engineering, pyrolysis and combustion, applications of computational fluid dynamics (CFD), neural network modelling applications in fire engineering, building energy conservation, lighting and ventilation, HVAC systems and indoor air quality. Over the years, he has been awarded over 5 Competitive Earmarked Research Grants and over ten Strategic Research Grants from the University in the area of fire safety and engineering. He has successfully supervised many PhD students in the fire research area and is participating in the Joint School of Graduate Study at Suzhou (between the University of Science and Technology of China and City University of Hong Kong) for Joint School of Graduate Study at Suzhou for supervision of over 10 PhD students for researches in fire sciences. Ir Dr Yuen has over 220 publications including international journal articles, conference papers and research reports, etc. Ir Dr Yuen has been engaged in research consultancies for both private and public sectors in a number of areas, in particular, the fire safety engineering and HVAC engineering, etc. With years of research and development experiences, he wrote of a book entitled: "Computational Fluid Dynamics in Fire Engineering - Theory, Modeling & Practice" published by Elsevier in 2008.

Since joining of the Department of Building and Construction, City University of Hong Kong, Ir Dr Yuen has been in charge of the development of the teaching and research of laboratories of the department as well as the overseeing of the space allocation of laboratories in the department. In particular, he has been the founder and has been leading the development of fire safety and research laboratories and computational facilities. From 2006, Ir Dr Yuen has been invited to offer his expert advices to the Fire Services Department, HKSAR on a regular basis for the research and developments including the full-scale laboratory facilities developments at the Fire Services Training School and also to the developments and reviews of the Training Courses for Fire Services.

Ir Dr Yuen has been actively serving professional institutions. He is currently the Founding Member of the Disciplinary Advisory Panel of Fire Discipline, HKIE and Chairman of the Accreditation Committee for Higher Diploma and Associate Degree, HKIE.

Over the years, Ir Dr Yuen has had a very close working relationship with government and public bodies including the Electrical and Mechanical Services Department, Fire Services Department and various Government Secretariats of the HKSAR Government and has also been actively serving in various government and public boards and committees including the members of Working Group on Fire Safety Engineering Approach, Buildings Department. He also serves as a Member of the Working Group on the Fire Engineering and Risk Assessment Approaches in Hong Kong established by IFE(HK-Branch) in 2007-2008. Currently, Ir Dr Yuen is the member of the Appeal Board Panel (Gas Safety), the Examination Board for Lift and Escalator Engineers of Electrical and Mechanical Services Department, the Appeal Board Panel under Builders' Lifts and Tower Working Platforms (Safety) Ordinance, the Fire Safety Vetting Committee and the Fire Safety Standard Advisory Group of Fire Services Department, respectively. Since August 2010, Dr Yuen has been appointed as the Member of the Fire Safety Committee and the Advisory Committee for the Fire Safety (Buildings) Ordinance and the Fire Safety (Commercial Premises) Ordinance, Buildings Department, the HKSAR Government.

Ir Dr Yuen has been actively involved as members of the organising committees, technical committees and international scientific committees for many international conferences including Fire Asia 2006, Asia Oceania Conference in Performance-Based Fire Engineering Fire, 2007, International Symposium in Performance-Based Fire Engineering (2004, 2005, 2006, 2007 and 2010), and the International Conferences on Advances in Computational Heat Transfer in 2001, 2004 and 2008, respectively. More recently, he is the Member of the Organising Committee for the Energy Conference, 2009 and the Member of the Organising Committee for Fire Asia 2009 in Hong Kong, respectively. He has been also the invited speakers for many national and

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The 2012 inFIRE conference will be held in Wellington, New Zealand (Feb 28 – March 2). It will be the first inFIRE conference to take place in New Zealand, and our host will be April Flux, Manager, Information & Library Services of the New Zealand Fire Service.

More information to come...in the meantime, mark your calendars!

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