

# USU Newsletter

VOLUME 3, ISSUE 9

WWW.USUHS.MIL

MAY 12, 2008

## Congratulations Graduates

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USU Newsletter  
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**Production:**

Editorial content is edited, prepared and provided by the USU Office of External Affairs unless otherwise indicated. The Newsletter staff may include or exclude articles based upon news value, impact on the university and space availability.

**Submissions:**

The USU Newsletter will be published bi-weekly on Mondays and deadline for submission is Friday at 4 p.m. Submissions can be sent to usnewsleter@usuhs.mil or by calling 301-295-3925.

Cover photo by  
HM2 Michael Oliver

# 2008 USU Research Week Begins

The Uniformed Services University of the Health Sciences (USU) began its annual Research Week May 12. The mission of Research Week is to promote research initiatives of faculty, staff and students and to provide opportunities for interdisciplinary collaboration and communication between USU graduate students and faculty.

Several symposia will cover a broad range of topics to include: traumatic brain injury, technological advances and research, and education research. The keynote address titled: *Opportunities and Challenges for Translating Basic Research Into Clinical Practice*, will be given by John I. Gallin, M.D., director, Clinical Center, National Institutes of Health (NIH), Wednesday, May 14.

Other lecturers include: **Bullard Lecture:** *Ca<sup>2+</sup>/Calmodulin Dependent Protein Kinase Kinase 2 (CaMKK2), the Hypothalamic Regulation of Energy Balance and the Metabolic Syndrome*, presented by Anthony Means, M.D., professor and chair, Department of Pharmacology and Cancer Biology, Duke University Medical Center, Durham, N.C.; **Henry Wu Symposium:** *Nipah and Hendra virus; from receptor discovery to therapeutic modalities*, presented by Christopher C. Broder, Ph.D., professor and director, Emerging Infectious Diseases Graduate Program, USU's Department of Microbiology and Immunology; **James Leonard Symposium:** *Treatment of Campylobacter Infections*, presented by David Tribble, M.D., DRPH., associate professor, Infectious Disease Clinical Research Program, USU's Department of Preventive Medicine and Biometrics.

This year's event, Celebrating Excellence in Research, reflects the roles that nursing, public health, behavioral science, basic science and medicine play

in health promotion and disease prevention. There will be poster presentations, distinguished guests speakers and panels to demonstrate USU's special role in civilian, public health and military research initiatives across the health sciences.

This annual three-day event incorporates Graduate School of Nursing and School of Medicine Student Colloquia which highlights the research interests and accomplishments of the graduate students in both fields. The Faculty Senate Research Day, including poster presentations, invited speakers and panel discussions, draws the entire USU community to share research achievements, foster collaborations, and stimulate intellectual exchanges. The week culminates as the students from the F. Edward Hébert School of Medicine, Graduate Education programs and Graduate School of Nursing receive their degrees during USU's 29<sup>th</sup> Commencement ceremony May 17 at the Daughters of the American Revolution, Constitution Hall, Washington, D.C. This year's commencement speaker is Elias Zerhouni, M.D., director, NIH.



Photo by Tom Balfour

**LT Caroline Oyster, PHS presents her research week poster, "Can A Synthetic Framework (PRIME) Improve Written Performance Evaluations for Pediatric Residents?" during Research Week 2007.**

## USU Holds Bldg. E Ribbon Cutting Ceremony

The Uniformed Services University of the Health Sciences (USU) will hold a ribbon-cutting ceremony for its newly constructed 50,000 square foot Academic Program Center Thursday, May 15. The event marks a historic day as the university celebrates its first major construction project on the USU campus since the completion of the original four buildings almost 30 years ago.

The new Academic Program Center will address urgently required classroom space as well as provide facilities for university-wide, mission-related and ever-expanding educational programs and support activities for the Military Health System.

The first floor of the new building will house the Graduate

School of Nursing faculty and staff who have been located in leased space in Silver Spring, Md., since the establishment of the GSN in 1993. Also returning to the campus from leased space will be the USU Offices of Continuing Education for Health Professionals (CHE) and the Military Training Network; both offices manage MHS-wide educational and training programs. Joining CHE and MTN on the second floor of the new building will be the Administrative Office for the MHS Graduate Medical Education Programs in the National Capital Area. The ground floor provides six flexible small classrooms, which can be opened to provide three larger classrooms, in addition to a 100-student capacity auditorium. The

ground floor broadcast room and auditorium will be equipped for VTC capability in addition to conference rooms on the first and second floors.

A groundbreaking ceremony was held Oct. 23, 2006, which was attended by Sen. Daniel K. Inouye, Sen. Paul S. Sarbanes, Sen. Barbara A. Mikulski, and Rep. Chris Van Hollen, Jr. In addition to the USU community, the May 15 Ribbon-Cutting Ceremony will be attended by more than 50 distinguished guests, which include representatives for the Maryland elected officials, Office of the Secretary of Defense officials, and senior representatives from the Offices of the Surgeons General of the Army, Navy and Air Force.

# NIH Director to Speak at USU Commencement

Elias Zerhouni, M.D., the 15<sup>th</sup> director of the National Institutes of Health, will address the graduates of the Uniformed Services University of the Health Sciences (USU) at the university's 29th Commencement exercise, Saturday, May 17.

Dr. Zerhouni came to the United States at the age of 24 after earning his medical degree at the University of Algiers School of Medicine in 1975. He went on to complete a chief residency in diagnostic radiology at Johns Hopkins. Dr. Zerhouni has worked to keep the institute at the forefront of federal agencies through initiatives such as the NIH Roadmap for Medical Research – an effort to transform the medical research enterprise. Dr. Zerhouni has also held several other leadership positions, such as the consultant to the White House under President Ronald Reagan and a consultant to the World Health Organization in 1988.

USU's Commencement exercise is at the Daughters of the American Revolution Constitution Hall, Washington, D.C., at 11

a.m. The F. Edward Hébert School of Medicine will award 157 Doctor of Medicine and 71 Biomedical Sciences Graduate degrees, while the Graduate School of Nursing will award 35 Master of Science degrees in the Family Nurse Practitioner, Perioperative Clinical Nurse Specialist, and Nurse Anesthesia disciplines, as well as three Doctor of Philosophy in Nursing Science degrees.

Some of the university's faculty members are world renowned experts in the field of post traumatic stress disorder, deployment psychology and traumatic brain injury. Research foci span a range of interest such as: CDR (Dr.) Jack Tsao's study of Phantom Limb Pain, in which he uses mirrors to help service members with lower extremity amputations alleviate the pain; and CAPT (Dr.) Gerald V. Quinnan, Jr.'s collaborative new study, with other U.S. scientists that provides compelling evidence that two genes are linchpins in defining the course of immune restoration in HIV-positive individuals undergoing virus-suppressing therapy.



Photo by HM2 Michael Oliver

## Just Desserts

**Retired BG John Hutton, M.D., professor for the Uniformed Services University of the Health Sciences' (USU) Department of Surgery, is a man for whom the adage, "we all scream for ice cream" is particularly apt. An ice cream fanatic, the former physician to president Ronald Reagan has adamantly pursued the repair of the ice cream machine in the USU cafeteria since its fall into disrepair over a year ago. Here, Hutton is pictured preparing to enjoy the fruits of his labor.**

# SOM Students March Through History

By Christine Creenan  
Web writer, Office of External Affairs

If walking a mile in someone else's shoes teaches understanding, what then does marching six miles in combat boots achieve? For students at the Uniformed Services University of the Health Sciences, an exhaustive formation road march provides engaging lessons in the tenants of battlefield care and offers new perspectives on the evolution of military medicine.



Photo by Leeann Ori

**SOM students pause in their march to learn about battlefield medicine during the 2008 Antietam March.**

battle scarred beyond repair. Students filed into the new construction, took seat on wooden pews and listened as professors Charles Beadling and Truman Sharp regaled audiences with stories of wartime casualty.

Amid the modest architecture, medical students learned that diarrhea and dysentery were the most difficult illnesses to treat, according to Sharp, because it "broke the willpower" of many

brave soldiers and spread through battalions like wild-fire.

Continuing down the path, students are joined by a Civil War re-enactor who enthusiastically described the uniform of early soldiers down to the oil cloth haversack, knapsack and blanket roll before participants sat down to enjoy a modern day soldier's meal: the MRE. Refreshed and sustained now, battalions moved forward to a deeply worn ravine known as the Sunken Road where they were met by George Wunderlich, executive director of the National Museum of Civil War Medicine. He relived the incredible battle that took place on the country road that divided the Roulette and Piper farms, pointed out an old barn with "beams riddled because it was in the line of fire" and shared its ominous nickname, the Bloody Lane, because of the bodies that covered the ground as far as the eye could see.

Nearing the end of this breathtaking day of revelations, students marched across the Boonsboro Pike, past the Otto Farm until they reached Burnside's Bridge. It was here, they learned the important role military strategy plays in the conduct of warfare and how it was possible 450 Georgian sharpshooters, hidden atop a steep wooden bluff, were able to drive back the advances of 12,000 Union soldiers for several hours despite being outnumbered.

As students filed onto the buses, they had time to reflect on their journey through the Antietam battlefield, the tales of heroism and tragedy told along the way, and most importantly, the weight of their charge of caring for those in harm's way.

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Photo by Leeann Ori

**SOM students march through the historic Antietam Battlefield, stopping at various points to learn about battlefield medicine from Civil War re-enactors.**

## Duplicating Lead Print Specialist Keeps Flames From Replicating

By TSgt André Nicholson  
NCOIC, Office of External Affairs

John Bigott was enjoying a quiet Sunday afternoon at home one minute, and then the lead print specialist of the Administrative Support Division's Duplicating section turned into a volunteer firefighter.

Every day John Bigott's department uses several reams of paper to provide printing services for customers throughout the entire university, but recently his selfless act of heroism assisted in keeping important papers from being destroyed during a neighbor's house fire.

As Bigott recalls, "I was sitting in my house around two Sunday afternoon and my neighbor came pounding on my door," he said. "She was yelling 'my house is on fire,' so I threw on my shoes and coat, grabbed my fire extinguisher and shot out the door."

When Bigott arrived at his neighbor's unit he said the flames were rolling across the ceiling from the stove and microwave and he immediately pulled the pin on the extinguisher and hit the fire

from the base which was coming from the stove.

"Everything happened so fast I didn't even have time to think," he said. "Looking back on it now I do remember going through fire extinguisher training about 5 years ago here at the university and I think it just all came back to me on how to use an extinguisher properly and put out a fire."

Bigott was able to put the fire out five minutes before the fire department arrived and they took the microwave completely out and opened up the wall to ensure there was no fire.

Thanks to Bigott's fast response and willingness to get involved, no one was injured and his neighbor's home suffered only minor damage.



**John Bigott  
Lead Print Specialist  
Administrative Support  
Division's  
Duplicating Section**



**USU**  
**A Traditional Academic University with a Unique Focus**



# TMIP-J Software Helps Battlefield Physicians See “Big Picture”

*Courtesy Tricare Management Agency*

Ongoing developments in medical science and technology are continually expanding physicians' options and capabilities in providing health care to their patients. Advances in medical imaging and breakthroughs in genetic testing, for example, are changing the face of health care practices. Parallel developments in information technology are transforming the role that medical data play in the lives of patients and doctors who treat them. Electronic health records are becoming increasingly more important and are changing the nature of health care practices.

COL Claude Hines, Jr., USA, Program Manager for the Department of Defense's Theater Medical Information Program - Joint (TMIP-J), is responsible for directing the development, acquisition, integration and sustainment of a “family of systems.”

TMIP-J refers to the software systems that capture and maintain EHRs, provide medical command and control information, track and report logistics of the location of medical personnel, supplies, equipment and blood, and track patients in transit. This suite of software solutions assists physicians and other deployed medical personnel in demanding war conditions.

“I'm always careful when I speak about the role that technology plays in delivering better health care in theater,” explained

Hines. “We have to remember that the physicians are the ones delivering improved health care, and the technology we provide merely enables them to apply their expertise in the most effective manner possible.”

First and foremost, Hines is dedicated to the health of war fighters and the medical professionals who care for them on a daily basis. He leads more than 150 personnel whose mission is to integrate medical information systems for the Army, Navy, Air Force and Marines into one unified system.

Speaking about the progress that has been made since Operation Iraqi Freedom began, Hines remarked, “In 2003, our reach extended only to the Army, but as time went on, the Navy, the Air Force and the Marines also began deploying TMIP-J software programs. We are enabling clinicians across the Services to quickly share up-to-date information on patient injury and care. We are delivering reports on medical trends and the health status of deployed units and individuals, and providing precise information about patients in transit.”

Today, the Air Force is using TMIP-J programs at its Theater Hospital in Balad, Iraq, as well as at the Craig Joint-Theater Hospital in Bagram, Afghanistan. The Navy is using TMIP-J systems in Kuwait, and the Army is using them in more than 100 units, including 50 combat medical units and 12

combat support hospitals. The systems are enabling physicians to effectively collaborate with other health care providers in ways that would have been unimaginable only a few years ago.

“TMIP-J is providing a total operational picture in theater,” stated Hines, “including bringing in non-medical data sources such as where warfighters were located in theater when they received their injuries or developed symptoms. So if we see a pattern of six people in a location developing similar symptoms, we can detect a potentially serious problem before it worsens.”

Illustrating the patient tracking capabilities provided by TMIP-J, Hines said, “Now we can tell commanders, medical personnel and other soldiers in the unit, ‘Your buddy has received care and he's on his way to Walter Reed.’ The information is a comfort to those who want to know the status of their wounded or ill colleagues.”

Explaining the impact of longitudinal electronic health record system, known as AHLTA, Hines stated, “When patients leave the battlefield and go to any military treatment facility worldwide, providers can access their medical history and data from AHLTA. Later, when individuals leave the military, their medical documentation can follow them electronically throughout their lifetime to the Department of Veterans Af-

See TMIP, Pg. 6

# USU Researcher Plays More Than Just One Role

*By Christine Creenan*

*Web Writer, Office of External Affairs*

On weekends, Dr. Louis Pangaro trades in his lab coat and briefcase for the opulent wardrobe of Elizabethan royalty thus beginning his transformation from studious doctor to foolhardy King Lear. Pangaro plays the title role in what has been hailed Shakespeare's greatest tragedy for its probing observations into the nature of betrayal, human suffering and the delicate fabric of society.

The acting vice chair for research at the Uniformed Services University's Department of Medicine, has been performing Shakespeare since high school but says his current role, “is a part in a play that is so good you feel inadequate.” He bridges that discrepancy by dedicating his nights and weekends to the theater in order to achieve the “technical mastery” needed to bring King Lear to life.

The performing arts have always interested the Walter Reed endocrinologist and he says there are many similarities between medicine and acting. They both require a lot of practice and preparation and whether studying the vernacular of older English or human physiology, “you still have to go to the books to learn what the words mean.” He went on to say, both disciplines tread a fine balance between art and science, intellect and emotion.

Through his participation in the theater group at Cedar Lane Unitarian Church, a close neighbor to USU, Pangaro has por-

trayed many of Shakespeare's tragic men, including Hamlet, Macbeth, Shylock and Marc Antony. Pangaro admires the church's devotion to music and theater, and how these contribute to spiritual life. The full time physician, an occasional thespian said, “In my own life, I have been enriched by contacts with plays and literature” and he hopes to continue acting occasionally in the years to come, taking on “big” roles such as Lear.



*Courtesy Photo*

**Flanked by two actresses, Dr. Louis Pangaro (center) portrays the titular role of William Shakespeare's “King Lear.”**

# USU Alumni Make a Difference in Military Medicine

By Leeann Ori

Alumni Program Specialist, Office of Alumni Affairs

The accomplishments of Uniformed Services University alumni are a direct reflection on the outstanding education and training provided by faculty and staff at USU. The Office of Alumni Affairs is proud to share some of these achievements with the USU community.

MAJ Jennifer Glidewell, USA, class of 2004 and MAJ Stacy Weina, class of 2003, both Graduate School of Nursing alumni, were chosen as the first nurse practitioners to deploy with a Special Forces group in Afghanistan. During their deployment, they provided health care to women and children primarily at small firebases where they managed the local national clinic. The mission was such a success more nurse practitioners are requested for the next rotation.

CPT Jeffrey Robertson, USA, School of Medicine class of 2002, was awarded the 2007 U.S. Army Surgeon General's Physician Recognition Award for his work at a theater level facility in Operation Iraq Freedom. This award is given to three Medical Corps officers annually.



Courtesy Photo

**MAJ Jennifer Glidewell, NC, USA, GSN Class of 2004 provides health care to women and children while deployed with special forces in Afghanistan. She is among the first nurse practitioners to deploy with special forces.**

## USU MTN Staff Member Receives Army Achievement Medal

By Dr. Mauri Hamilton and CAPT Jaime Luke  
Continuing Health Education

TSgt Tuyen Tran, Basic Life Support (BLS) Program Manager of the Military Training Network (MTN), recently received the Army Achievement Medal from the Commander, Task Force 31, Medical Brigade in Iraq for outstanding accomplishments in support of Operation Iraqi Freedom, May 6.

Tran understood that the seven medical units in Iraq needed to continue to train health care personnel in BLS under the new American Heart Association (AHA) guidelines – even in a war zone. However, the time differences and the intense missions of the units in Iraq made it difficult for Tran and the medical groups to connect. Tran recognized that of all the units, especially for the medical teams that take care of troops that are in harm's way, needed the most up to date information with the greatest amount of ease of use.

To ensure the BLS instructors overseas got what they needed in a timely fashion,

Tran tracked down the training officers of each unit and the four major Armed Forces hospitals located in Baghdad, Balad, Mosul, and Tikrit. Because of the time zone differences, Tran came in during the weekends and evening hours and also established communication using his internet telephone line. Through all of his extraordinary efforts, Tran was able to troubleshoot issues and answer questions so that all units were in full AHA BLS compliance, resulting in fully trained health care personnel that were ready to care for our wounded heroes.

Tran, who is quite humble, innovative, and has an outstanding work ethic, said, "I think every person who supports our troops should do it in a way that works best for them. I spent four months in Kuwait City. Although it was not in a battle zone, it gave me very good insight about what the health care teams needed to support our troops that are in battle and I tried to put myself in their shoes."

MTN is responsible for trauma and resuscitative medicine for Department of De-



Photo Courtesy of CHE

**TSgt Tuyen Tran, USAF, Basic Life Support program manager for USU's Military Training Network, received the Army Achievement Medal from the commander of Task Force 31, Medical Brigade in Iraq for outstanding accomplishments supporting OIF.**

fense personnel across the globe. TSgt Tran has worked at MTN since November of 2005 and oversees 220 sites for BLS administration.

From **TMIP**, pg. 5

fairs, to help determine the future care and benefits they receive."

TMIP-J is responsible for significantly improving the logistical processes associated with the planning and delivery of clinical care items in theater. The system standardizes the electronic reporting of information on medical personnel, supplies, equipment and blood, which not only improves inventory management but facilitates medical equipment maintenance processes.

More than 15,000 medical professionals are using TMIP-J worldwide, and since January 2005, the EHR system has captured nearly 900,000 outpatient medical encounters and over 1.5 million inpatient encounters, including pharmacy orders, laboratory reports and x-rays. AHLTA-Theater is currently processing more than 33,000 clinical encounters per month and is providing near-real-time information sharing to health care providers in theater.

AHLTA-Mobile is a handheld device that first responders use to

capture medical information at the point of injury. This EHR system is also used by medical staff serving the White House. The capability, which could be the envy of best-in-class commercial sector emergency medical personnel across the U.S., is transforming theater based health care.

When Hines delivers lectures to IT industry professionals, he talks about the potential application of AHLTA-Mobile during civilian events such as natural disasters and pandemic outbreaks. He also tells how the system can be used for humanitarian assistance efforts, rural health care programs and visiting nurse services.

Providing complete and seamless connectivity among multiple levels of care in theater as well as among military medical facilities across the globe and on to VA is a complex challenge, but TMIP-J is meeting the challenge by delivering results that continue to set new benchmarks in the area of medical information management and technology.

# Dates to Remember

**Basic Life Support Classes:** Basic Life Support for Health Care Providers courses will be on the first and third Thursday of every month at 9 a.m. Seats are limited, so if you would like to attend a course, please contact [mrogers@usuhs.mil](mailto:mrogers@usuhs.mil) for availability.

**May 15: School of Medicine Graduation Awards Ceremony—** 12:30 p.m. in the Sanford Auditorium.

**May 16: School of Medicine Graduation Awards Reception—** 3 p.m. - 7 p.m. in the courtyard.

**May 17: DARC Hall- Class of 2008 Commencement Exercise—** DAR Constitution Hall, 18th & D. St. NW, Washington, DC. P.O.C. University Affairs at 301-295-4796.

**May 19 : Seminar, "Regulation of Gene Expression During the Chlamydial Development Cycle" -** Speaker will be Ming Tan, M.D., associate professor for University of California, Irvine's Department of Microbiology and Molecular Genetics. Lecture begins at 11:30 a.m. in Lecture Room A.

**May 23 : Brigade Enlisted Picnic—** The Enlisted Brigade will hold a Summer Fun Day/Picnic May 23 at the pavilion behind the softball field at 10:30 a.m. Enlisted service members are encouraged to attend and will be released at the discretion of their supervisors at the conclusion of the picnic. Uniform for this event will be appropriate civilian attire. For more information, contact SFC Peña at (301) 295-3869 or [dpena@usuhs.mil](mailto:dpena@usuhs.mil).

**June 6-8: Tom's Run 2008—** Tom's Run is a 200-mile fitness event in memory of CWO4 Tom Brooks, USCG (Ret.), who contracted amyotrophic lateral sclerosis. Each year teams of runners relay from Cumberland, Md. to Washington, D.C., and finish at USU. For sign-up information, contact SSgt Rogers at [mrogers@usuhs.mil](mailto:mrogers@usuhs.mil).

**June 30 : First USU/HJF Symposium —** "Military and Civilian Medicine Joining Forces to Advance Research," will be held from 7:30 a.m. - 6 p.m. at the Bethesda North Marriott Hotel and Conference Center in Bethesda, Md. For more information, visit <http://www.hjf.org/symposium>, or call 301-294-1218.

**July 10 – 25 : 2008 Field Exercises:** Operations Bushmaster and Kerkesner will be conducted July 10-25 at Fort Indiantown Gap, Penn. These exercises are unique to our university and require the support of all university uniformed personnel.

## Pediatric Interest Group Invites High School Students to USU

*By 2d Lt Nathan Kelsey  
MS2 Student*

Several Uniformed Services University of the Health Sciences' (USU) School of Medicine students from the class of 2010 volunteered as guest lecturers for the Medical Careers classes at John F. Kennedy High School in Silver Spring, Md., March 19.

The JFK students, taught by Ms. Marchwicki, have been serving as mock patients for USU students as a part of their ICM III class. The students, many of whom are aspiring doctors, wanted an insider's account of the process of applying for medical school and the opportunities in military medicine.

The guest lecturers taught two classes about the process of applying to medical school. MS2 students spoke about the course work required in undergraduate studies to prepare for medical school. The MS2's explained the details of the Medical College Admissions Test and shared insight

into completing the American Medical College Application Services application and the interview process that follows, and presented an engaging slide show explaining opportunities in military medicine, including USU, the Health Professions Scholarship Program and the Reserve Officer Training Corps.

As a payback for being such an attentive audience, the MS2 students invited the JFK students to the USU campus, April 30.

A total of 33 students from three medical careers classes came to tour the USU campus. The students had served as mock adolescent pediatric patients for the MS2 class throughout the spring-winter semester. Many of the high school students are aspiring physicians and skipped out on a day of classes to come to the campus and get a closer look at medical school.

The students were treated to a tour of the campus provided by the enlisted company, and were then handed the class notes for one of the second-year pathology

labs, and were split into groups to attend lectures on laboratory medicine with medical students. The students followed the lecturers, asked questions and got a taste of medical coursework. After a break for lunch, the JFK students participated in a hands-on session, teaching medical exam skills conducted by volunteers from the class of 2010.

In one room of the Multi-Discipline Labs, two MS2 students taught a group of six high school students auscultation of the heart and lungs. In a darkened room nearby, high school students learned the use of an ophthalmoscope for eye exams. Further down the hall, USU students instructed an attentive group of high school students in the use of otoscopes for examining the ear. Students also learned how to test reflexes and how to tie suture knots.

The students were enthusiastic about all aspects of their visit to campus. Marchwicki said the events and tour provided, ranked among their most informative field trips.

## Scientists Deliberate on Diagnostics for Partial-Body Irradiation

*By Donna Solyan  
Chief of Publishing, Office of External Affairs*

Some 90 researchers from the United States, France, United Kingdom, Germany, the Netherlands, Canada and Sweden participated in the Uniformed Services University of the Health Sciences' (USU) Armed Forces Radiobiology Research Institute's workshop, May 5-6.

The workshop dealt with how best to assess and treat military and civilian casualties of partial-body radiation exposure. Their deliberations are expected to be published soon in scientific literature.

"Our discussions addressed the need to prepare for emergen-

cies that might result in mass radiation-exposure casualties and particularly for injuries resulting from partial-body exposures," said AFRRRI Scientific Director Dr. Terry Pellmar. "Although most research focuses on uniform exposures, in a real event partial body exposures are, in fact, more likely. Rapid diagnosis will be essential to protecting organ systems that are seriously impacted by radiation, including bone marrow, the gastrointestinal tract and skin."

"The workshop discussions addressed the current status of our understanding of biomarkers for specific organ systems and pointed out the gaps in our knowledge. It became clear that to effectively treat partial-body exposures we will need to integrate our understanding of changes to various organ systems with clinical approaches," said Pellmar.



# UNIFORMED SERVICES UNIVERSITY *of the Health Sciences*

