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SUMMER CLASSES

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MFRI BULLETIN

University of Maryland

SUMMER HEATS UP AS STUDENTS COMPLETE ACCELERATED CLASSES

For over 10 years, MFRI has offered intensive summer accelerated classes for the 108-hour Firefighter I, 60-hour Firefighter II, and 131-hour Emergency Medical Technician Basic classes.

This year's firefighter classes were conducted during extremely high summer temperatures. Firefighter I Instructor John Lyons ensured that all students carried water with them during all practical exercises. He said that this year was "the first time we've had to use the mist fan."

Student Lawrence Moore commented that "hydrate" was the second most commonly used word in our Firefighter I class." Alexander Riedel took the accelerated programs for Firefighter I and II this summer because "fires don't take a summer break!"

Firefighter II student Barry Hannah enjoyed his class because the class "forced me to be prepared every day and the repetition helped me improve my skills."

EMT-B Instructor Shawn Davidson ensured that each student understood the schedule at the beginning of the class to ensure that students had the facts needed to successfully complete the course.

Douglas McMillin read "every night before bed for a good two hours."

The best part of the class for him, he said, was that he felt that what he learned in the class "will stay with me for life."

Anika Watley felt that the EMT-B summer class was "equally as demanding" as the accelerated classes she has taken to earn both her Bachelor's and Master's degrees.

One thing most students agreed upon was that the teaching staff for the accelerated classes was an integral part in ensuring that each student completed the course successfully.



TOP RIGHT: EMT-B INSTRUCTOR SHAWN DAVIDSON ASSISTS STUDENTS DURING SKILLS PRACTICE.
BOTTOM RIGHT: EMT-B STUDENTS PRACTICED SOME SKILLS ON THEIR CLASSMATES.



MESSAGE FROM DIRECTOR EDWARDS

Each fiscal year as a method to statistically measure progress of MFRI programs we compile course numbers by various categories. This is one method we use to measure progress in a quantitative manner, but it is not the only measurement as qualitative measures such as student success and satisfaction are in many cases more important. This year the numbers are down from previous years and much of the downward trend occurred within the MFRI Special Programs Section as its clients who pay for MFRI courses have been impacted by the recent national economic conditions. The MFRI program statistics for FY 2010 are as follows:

THE MARYLAND FIRE AND RESCUE INSTITUTE OF THE UNIVERSITY OF MARYLAND IS THE STATE'S COMPREHENSIVE TRAINING AND EDUCATION SYSTEM FOR THE EMERGENCY SERVICES. THE INSTITUTE PLANS, RESEARCHES, DEVELOPS, AND DELIVERS QUALITY PROGRAMS TO ENHANCE THE ABILITY OF EMERGENCY SERVICE PROVIDERS TO PROTECT LIFE, THE ENVIRONMENT, AND PROPERTY.

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THE MFRI BULLETIN IS PRODUCED ENTIRELY IN HOUSE. WE EXTEND OUR GRATITUDE TO ALL CONTRIBUTORS WHO MAKE THIS PUBLICATION POSSIBLE.

EMERGENCY SERVICES PROGRAMS	1,545
FPS	1,044
SPS	265
COMPANY DRILLS	172
SEMINARS	64

STUDENTS BY PROGRAMS	31,147
FPS	21,497
SPS	4,525
COMPANY DRILLS	3,619
SEMINARS	1,506

STUDENT HOURS BY PROGRAM	860,272
FPS	721,493
SPS	94,643
COMPANY DRILLS	32,014
SEMINARS	12,122

STUDENTS BY DISCIPLINE	31,147
FIRE	7,443
EMS	6,517
ALS	2,114
RES	1,714
MGMT	4,447
HM	2,668
SPECIALTY	1,119
COMPANY DRILLS	3,619
SEMINARS	1,506

Thanks to the 31,147 students who attended classes this year and to the MFRI instructors who teach courses every day and night of the week to make this possible. Our system remains strong and is meeting the training needs of the state in fire, rescue, and EMS courses.



MEET OUR INSTRUCTOR: Gloria Bizjak

MFRI Instructor Gloria Bizjak worked full-time for MFRI for 25 years in the regions and at headquarters. Since her retirement, Gloria stays busy at MFRI as an instructor trainer, developing and teaching Professional Development for Instructors (PDIIs), reviewing Instructor Training Course challenges, developing company-level drills, and doing other tasks as requested. “It’s a lot of work,” she says, “but you need to put a lot into it so the students get something out of it.”

Gloria creates and teaches PDI classes at headquarters and around the state. She often gets her ideas through professional journals or based upon something her students say. Gloria enjoys researching more about the topic and often lets an idea percolate a while before she writes up a class.

Recently, Gloria taught a PDI called “Andragogy vs. Pedagogy.” When she introduced the topic to the instructors, they wondered how the unusual words in the title would relate to the way they teach, she said. As they worked through the class Gloria found it a pleasure to see the instructors realize that they have always been using and combining these teaching methods.

Gloria also works part-time for the Worcester County Board of Education Adult Education program teaching English for Speakers of Other Languages (ESOL). Gloria uses the skills she’s developed in the MFRI classroom to help her in the ESOL classroom. “Everything I know about teaching, I learned at MFRI,” she says. Gloria was recently given the position of Instructor Specialist where she will develop and deliver a program on professional development for the other ten ESOL teachers twice a year.

Gloria has also contributed to textbooks—she wrote several chapters of Brady’s *First Responder* (multiple editions) and many chapters of the IFSTA *Fire and Emergency Services Instructor* 6th Edition. Writing a book and having people read what she wrote is one of the biggest achievements in her professional life, she says. The other is seeing her ITC students become great instructors—not just because of what she teaches them, but because they work to become great instructors.

Warren Peter Accepts Award from MFSPQB

The Maryland Fire Service Personnel Qualifications Board proudly presented the Russell J. Strickland Award to Warren Peter at its annual meeting held during the Maryland State Firemen’s Association Convention. The award is presented to individuals who have made significant contributions towards the promotion of certification for fire and emergency services personnel in the State of Maryland.

Warren Peter is the second person to receive the award; Russell Strickland was presented the inaugural award in 2008.

Warren’s contributions as MFRI’s Certification Facilitator between 1993 and 2003 led to many changes locally and nationally. He was instrumental in establishing a candidate

advocacy program that is still in use today and has been adopted by the ProBoard.

The advocacy program that Warren created allows candidates to provide proof of success through documentation of training, education, and experience. Warren not only helped students understand certification, but he also ensured that each advocacy session included the development of a path or options to travel for success and continued to follow up with individuals to coach or mentor them toward their success after the advocacy session was completed.

Maryland’s emergency services personnel, the MFSPQB, and the state of Maryland have benefited from the guidance and leadership Warren Peter provided.



Physician Videotapes Cadaver For Paramedic Refresher Training

Amber Gisriel, Advanced Life Support, MFRI

The Advanced Life Support (ALS) Program of MFRI has spent the summer gearing up for the new Paramedic Refresher Course. The new class will offer a challenging curriculum with interesting and relevant content. The content will be presented in a totally redesigned format, including a video/multi-media presentation titled Advanced Cardiology Assessment (ACA).

The video thoroughly reviews and explores the human cardiovascular system. Aside from the expert content, the video also allows students to experience a cadaver lab environment.

The video was filmed over a ten-hour period on location in a dissection room provided by the Anatomy Board of Maryland in Baltimore. The video is led by Dr. Michael Millin, a graduate and Fellow of the Johns Hopkins Medical School, an Attending Physician of Emergency Medicine at Johns Hopkins Hospital, and the Medical Director for the BWI Fire Department. Dr. Millin, who is deeply involved in disaster medicine, starts with a brief introduction before discussing an external examination of the subject focusing on hospital and pre-hospital patient care including landmarks for procedures such as pericardialcentesis, needle decompression, and 12 and 15 lead EKG placement.

As Dr. Millin provides expert narration, he leads the audience on a vivid and detailed medical exploration of the human body as it pertains to cardiac anatomy and physiology. After the external examination, Dr. Millin opens the thoracic cavity and walks students through all pertinent anatomical and/or physiological findings as he proceeds to the heart. Upon exploring the heart in greater detail, Dr. Millin gives viewers a unique look at an exposed heart and the surrounding structures within the body.

An in-depth exploration of the human body that would not have been possible without the generous gift made possible by the “whole body donation” program, the Anatomy Board of Maryland, and the subject of the video, the male cadaver.

Advanced life support students who have viewed the film have expressed that this physician-led instruction method allowed them to get a complete and concise understanding of the importance of cardiac anatomy relative to physical exams and advanced diagnostics such as 12 and 15 lead EKG's.

NEW SPRINKLER RETROFITTING TECHNOLOGY SHOWCASED AT MFRI

R. Wayne Powell, Fire Protection/Life Safety Specialist, Marriott International, Inc.

On May 26, MFRI Headquarters hosted three live-burn demonstrations to show how easily and quickly Marioff Brand® “Hi-Fog” fire protection “Water Mist Technology” can control fire. The three scenarios—a living room, kitchen and bedroom—featured actual fire being handled with only a few gallons of water. Three cylinders, each containing eight gallons of water pressurized with Nitrogen, were at the ready when fires reached critical stages that would easily be both deadly and totally destructive to residential structures. Hi-Fog Mist residential heads, using water in stainless steel sprinkler tubing (not traditional plastic or steel piping), reacted just as conventional residential sprinkler heads do when ceiling temperatures reached 155°F.

A group of more than 100 people from a dozen states and two countries were on hand to learn how Mist systems are installed and how they operate. Several “walk-throughs” prior to and then following each fire allowed participants to see for themselves the benefits of the technology other countries have already adopted for a huge range of occupancies including residential settings. Yet this technology remains relatively unknown to many municipal building and fire officials here in the U.S.



A new feature used during this event was video and thermal imaging cameras. Video crews taped each event from different angles, allowing observers to safely watch each scenario as the images were broadcast in an area separate from the demonstration.

The event was open to all and was a joint effort by Marriott International (the hotel people) and Marioff/United Technologies Corporation Fire and Security (UTCFS). Marioff, a vendor to Marriott, has installed Mist systems in 33 hotels around the world to date (the closest hotel being the University of Maryland’s Aspen Wye River Conference Center on the Eastern Shore). Many of those 33 properties are high-rise properties and are retrofit installations in historic buildings. Newly constructed hotels in several countries also feature Mist fire protection.



In addition to MFRI, participating partners have also included the Office of the Maryland State Fire Marshal; Montgomery County Fire and Rescue; the University of Maryland’s Department of Fire Protection Engineering; the International Association of Fire Chiefs’ Fire and Life Safety Section; the National Association of State Fire Marshals; the U.S. Fire Administration/FEMA/DHS; Marioff/UTCFS; and Marriott Fire Protection/Marriott International. Additional information or video from this event is available from wayne.powell@marriott.com or through YouTube.

TOP: MFRI SPECIAL PROGRAMS SECTION COORDINATOR JOHN MCNEEDE POINTS OUT THE SINGLE KITCHEN MIST HEAD PRIOR TO A BURN.

BOTTOM: LESS THAN ONE-FOURTH OF AN INCH OF WATER AWAITS CLEARING FOLLOWING THE KITCHEN FIRE.

PHOTOS COURTESY OF WAYNE POWELL



Field Programs

November

November 16–17
Commissioning New Occupancies
MFRI HQ—College Park
Time: 0900–1600

November 16–17
Decision-Making for Initial Company
Operations Train-the-Trainer
MFRI HQ—College Park
Time: 0800–1700

November 30
Basic Disaster Life Support
Northwest Hospital
Time: 0800–1800

December

December 4
Professional Development for Instructors
MFRI HQ—College Park
Time: 0700–1600

December 5
Fire Ground Tactics: The First Few
Minutes
MFRI SMRTC—LaPlata
Time: 0800–1500

Advanced Life Support

November

November 1
Advanced Cardiac Life Support
Online Course
Enroll Before: 10-31-10

November 1–2
Advanced Medical Life Support
Time: 0800–1700
Montgomery County Fire Rescue
Training Academy
Enroll Before: 10-12-10

November 1–5
Paramedic Refresher Course
MFRI HQ—College Park
Time: 0830–1730
Enroll Before: 10-12-10

November 3
Advanced Cardiac Life Support Skills
Evaluation
MFRI UESRTC—Centreville
Enroll Before: 10-14-10

November 5–21
Paramedic Refresher Course
Calvert County Advanced Life Support –
Co. 10
Enroll Before: 10-16-10

November 6–7
Prehospital Trauma Life Support
(PHTLS)
Carroll County Community College
Time: 0800–1700
Enroll Before: 10-17-10

November 9–10
Pediatric Education for Prehospital
Professionals
Ocean City Public Safety Building
Time: 0800–1700
Enroll Before: 10-20-10

November 11–12
Pediatric Education for Prehospital
Professionals
Prince George's County Fire/EMS
Training Academy
Time: 0800–1700
Enroll Before: 10-22-10

November 13
Advanced Burn Life Support
Montgomery County Fire Rescue
Training Academy
Time: 0800–1700
Enroll Before: 10-24-10

November 20–21
Pediatric Education for Prehospital
Professionals
Peninsula Regional Medical Center
Time: 0800–1700
Enroll Before: 10-31-10

November 29–30
Advanced Medical Life Support
Prince George's County Fire/EMS
Training Academy
Time: 0800–1700
Enroll Before: 11-9-10

November 30
Basic Disaster Life Support (PDF)
Northwest Hospital
Time: 0800–1700
Enroll Before: 11-10-10

December

December 1
Advanced Cardiac Life Support
Online Course
Enroll Before: 11-30-10

December 1–2
Advanced Medical Life Support
Frederick County Training Center
Time: 0800–1700
Enroll Before: 11-12-10

December 2–3
Geriatric Education for Emergency
Medical Services (GEMS)
Baltimore City Public Safety Training
Center
Time: 0800–1700
Enroll Before: 11-13-10

December 4–5
Prehospital Trauma Life Support
(PHTLS)
Galena Volunteer Fire Company, Inc.
Time: 0800–1700
Enroll Before: 11-15-10

December 6–7
Advanced Medical Life Support
Baltimore City Public Safety Training
Center
Time: 0800–1700
Enroll Before: 11-17-10

December 6–7
Pediatric Education for Prehospital
Professionals
BWI Airport Fire-Rescue Department
Time: 0800–1700
Enroll Before: 11-17-10

December 8
Prehospital Trauma Life Support
Refresher
Frederick County Training Center
Time: 0800–1700
Enroll Before: 11-19-10

OF EVENTS

December 8–9
Pediatric Education for Prehospital
Professionals
Baltimore City Public Safety Training
Center
Time: 0800–1700
Enroll Before: 11-19-10

December 11
Acute Coronary Syndromes Course
Peninsula Regional Medical Center
Time: 0800–1700
Enroll Before: 11-22-10

December 11–12
Pediatric Education for Prehospital
Professionals
Calvert County Advanced Life Support –
Co. 10
Time: 0800–1700
Enroll Before: 11-22-10

December 14–15
Pediatric Education for Prehospital
Professionals
Baltimore City Public Safety Training
Center
Time: 0800–1700
Enroll Before 11-25-10

December 16–17
Prehospital Trauma Life Support
(PHTLS)
Prince George's County Fire/EMS
Training Academy
Time: 0800–1700
Enroll Before: 11-27-10

December 17
Acute Coronary Syndromes Course
BWI Airport Fire-Rescue Department
Time: 0800–1700
Enroll Before: 11-28-10

December 20–21
Advanced Medical Life Support
Baltimore City Public Safety Training
Center
Time: 0800–1700

Government and Industry

November

November 1–3
Hazardous Materials Operations

MFRI HQ—College Park
Time: 0800–1600
Enroll Before: 10-12-10

November 1–5
Aircraft Rescue Fire Fighter
MFRI HQ—College Park
Time: 0800–1600
Enroll Before: 10-11-10

November 1–5
Instructor I
MFRI HQ—College Park
Time: 0800–1600
Enroll Before: 10-12-10

November 2
Basic Life Support for Health Care
Providers
MFRI HQ—College Park
Time: 0800–1600
Enroll Before: 10-28-10

November 4–5
HazMat On-Scene Incident Commander
MFRI HQ—College Park
Time: 0800–1600
Enroll Before: 10-15-10

November 8–12
Instructor II
MFRI HQ—College Park
Time: 0800–1600
Enroll Before: 10-19-10

November 8–17
Hazardous Materials Technician
MFRI HQ—College Park
Time: 0800–1600
Enroll Before: 10-19-10

November 8–19
Fire Investigator
MFRI HQ—College Park
Time: 0800–1600
Enroll Before: 10-19-10

November 15–16
Certified Fire Protection Specialist
Preparatory
MFRI HQ—College Park
Time: 0800–1600
Enroll Before: 10-26-10

November 15–20
Fire Officer II
MFRI HQ—College Park
Time: 0800–1600
Enroll Before: 10-26-10

December

December 1
Heartsaver AED
MFRI HQ—College Park
Time: 0800–1600
Enroll Before: 11-12-10

December 6
Confined Space Awareness OSHA
MFRI HQ—College Park
Time: 0800–1600
Enroll Before: 11-17-10

December 6–7
Confined Space Awareness and Entry
OSHA
MFRI HQ—College Park
Time: 0800–1600
Enroll Before: 11-18-10

December 6–8
Confined Space Entry and Rescue OSHA
MFRI HQ—College Park
Time: 0800–1600
Enroll Before: 11-17-10

December 6–17
Fire Officer III
MFRI HQ—College Park
Time: 0800–1600
Enroll Before: 12-17-10

December 7–9
Emergency Medical Technician Refresher
MFRI HQ—College Park
Time: 0800–1600
Enroll Before: 11-18-10

December 8
Confined Space Annual Refresher
MFRI HQ—College Park
Time: 0800–1600
Enroll Before: 11-19-10

December 15
Heartsaver First Aid with CPR and AED
MFRI HQ—College Park
Time: 0800–1600
Enroll Before: 11-26-10

MFRI Visited by Summer Campers

The Maryland National Capital Park Police's summer camp continued the tradition of exposing campers aged 9-12 to various law enforcement and fire department functions. While at MFRI, the children were introduced to several firefighters before breaking into groups to practice different stream patterns with hose lines and learn PASS with fire extinguishers. At the end of the day, campers were exposed to the heat a fire can cause by watching a display at the flammable liquids pit from a safe distance. This is a fun and educational experience for the campers as they begin to understand some of the challenges a firefighter faces.



TYLER DISTASIO HELPS A CAMPER WITH HIS PASS TECHNIQUE.