

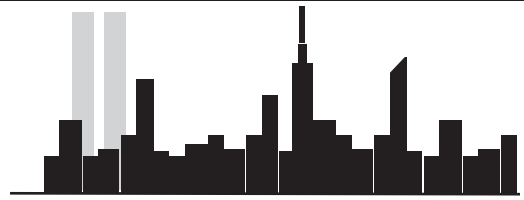
MARCH 2008

VIEW
P O I N T



metro Tech

THE NEWSLETTER OF THE NYC FIRE DEPARTMENT



WINDY CITY

FDNY studies wind-driven high-rise fires in groundbreaking study

Wind-driven high-rise fires are some of the most dangerous a firefighter will ever face. They are unpredictable, fast-moving and can exceed temperatures of 2,000 degrees within minutes, making it challenging for firefighters to control.

So, why did the FDNY purposefully start one on February 25?

It was part of a week-long series of controlled burn experiments the Department is using to test new firefighting techniques that can be used to battle these dangerous fires.

The study is funded through a \$1 million grant from Federal Emergency Management Agency (FEMA) Assistance to Firefighters Grant for Research. It was unveiled on Governors Island by Fire Commissioner Nicholas Scoppetta and officials from Polytechnic University and the National Institute of Standards and Technology (NIST), which are participating in the study.

“These tests will enhance our technology and help our members tackle the most difficult fires they confront,” said Commissioner Scoppetta. “We’re looking for revolutionary ways to fight wind-driven high-rise fires.”

Chief of Department Salvatore Cas-



A fire curtain is used by firefighters to block the wind (generated by a large fan) from a raging apartment fire on Governors Island during a weeklong study of wind-driven high-rise fires.

sano added: “When wind whips down the hallway of a high-rise building, you only have seconds to get out. So the results of this study will help keep New Yorkers and our firefighters safer.”

Fire officials used an abandoned seven-story apartment building on Governors Island for the tests, noting the structure is similar to numerous buildings found throughout the five boroughs.

After starting the fire and feeding it with 20 M.P.H. winds from a large fan outside, officials first studied the temperature, pressure and carbon monoxide readings in each of the apartment’s rooms using fireproof wiring and sensors that record temperature changes as well as thermal and real-time video cameras.

Since they purposefully left the apartment’s doors open (which the FDNY urges New Yorkers never to do) the wind pushed the flames and smoke quickly

through the rooms and into the public hallway, raising temperatures to more than 2,000 degrees.

Fire officials then engaged a series of new fire suppression tools, the first of which was a fire curtain.

During this test, a fire-resistant blanket was lowered from the floor above the fire to remove the fire’s oxygen supply by covering the broken window that was feeding the wind to the flames.

The 6 by 8-foot, 28-pound curtain is made from material similar to that of a firefighter’s bunker gear. It can withstand direct exposure to 1,500 degree temperatures for an unlimited amount of time and 2,000 degrees for up to 15 minutes.

Another test included Positive Pressurized Ventilation (PPV). This employed the use of a small gas-powered fan, which was placed at the bottom of the stairwell,

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Groundbreaking Study on Wind-Driven Fires



Commissioner's
— Message

There's no question that wind-driven high-rise fires are some of the most dangerous firefighters face. Fueled by windows failing and doors being left ajar, these fires can be difficult – if not impossible – for firefighters to control and often have devastating results. Because of the precarious nature of these fires, the Department has embarked upon a groundbreaking study of the science behind them and new ways for firefighters to fight them.

Large fires create high pressure environments, which often result in window failure. When this happens, the influx of oxygen fuels the fire and creates the ideal conditions for a flashover. Within minutes temperatures can exceed 2000 degrees Fahrenheit, and if the apartment door also is open, the high pressure from the apartment starts to exit to the hallway seeking areas of low pressure. This creates a blowtorch effect and smoke quickly streams into vertical shafts (such as stairwells), leaving firefighters and building occupants vulnerable.

Deputy Chief John Mooney and Battalion Chief Jerry Tracy are leading the FDNY's groundbreaking study of these dangerous fires.

An investigation into the nature of these fires was spearheaded 11 years ago by Chief Tracy (who was a captain at Ladder 35 at the time) after a destructive wind-driven fire on the Upper West Side of Manhattan. Soon after the fire, he arranged for water flow tests to be performed in high-rise buildings under construction in his district.

Although excellent data was uncovered by his research, it was determined that a professional science and engineering group would need to investigate the topic further. Chief Tracy then partnered with an engineer from the National Institute of Standards and Technology (NIST), as well as members of the Toledo (Ohio) Fire Department, Chicago Fire Department, and Ottawa Fire Service.

They began their research in June 2006 using a high-rise building they acquired in Toledo. From this study they learned valuable lessons about pressurization in stairwells, but had not introduced wind conditions in these experiments.

The next test was in Chicago in October 2006. They conducted an equivalent of 18 all-hands fires in a week's time, with several tests replicating wind-driven conditions. From this they learned the astronomical rise in temperature that can occur during these fires, recording temperature jumps from around 70 degrees Fahrenheit to more than 2000 degrees in less than one minute.

For the next round of research, the FDNY partnered with

Polytechnic University and, with the assistance of Irene Sullivan from the Office of Intergovernmental Affairs, secured a \$1 million Assistance to Firefighters Grant for the project.

After obtaining permission to use an abandoned seven-story building on Governors Island for the tests, the FDNY started studying methods of control, approach and extinguishment. More than 200 sensors were installed in the building for each experiment, including thermocouples for measuring temperature, pressure transducers for differential pressure readings and bi-directional probes to measure gas velocity and direction. They also used video and thermal imaging cameras to record the experiments, which were mounted in stainless steel, water cooled cases with quartz lenses to survive the flashover conditions.

Polytechnic mounted two weather stations on the roof of the building to gauge ambient temperature, wind speed and direction data. They also positioned four wind speed indicators above and below the fire floor to examine the air movement along the walls of the building.

After the fire had burned for a few minutes and the science of the fire was examined, FDNY members individually introduced pressurization fans, fire curtains and a specialty nozzle (also known as the Navy Fog Applicator) to test new methods in fighting these dangerous fires.

Representatives from Polytechnic currently are interpreting all the data collected, but what they found so far is promising. Not only could official results change the way our members fight these fires, they could also save many lives.

I want to thank all FDNY members who have participated in this groundbreaking study, including Assistant Chief Thomas Galvin, Chief Mooney, Deputy Chief Michael McPartland, Deputy Chief Joseph Saccante, Chief Tracy, Battalion Chief Joseph Cunningham, Battalion Chief George Healy, Captain Thomas Yuneman, Lt. John Ceriello, Senior Engineer Dan Madrzykowski (NIST) and Associate Provost Dr. Sunil Kumar (Polytechnic University). Your hard work and dedication will help firefighters for generations to come.

RISING HIGH

FDNY breaks ground on new high-rise simulator

A new high-rise building is going up on Randalls Island. And as soon as it's complete, the FDNY will set it on fire.

Fire Commissioner Nicholas Scoppetta joined Mayor Michael Bloomberg, President of the Leary Firefighters Foundation Denis Leary and FDNY Foundation Vice Chair Andrew Guarino on January 23 to break ground on a new high-rise simulator at the Fire Academy.

"High rise fires are a notoriously complex and dangerous part of the job," Mayor Bloomberg said. "This new simulator will enable us to train our firefighters under the most extreme conditions."

The \$4.5 million simulator – which is scheduled for completion in 2009 – will be equipped with mock residential, office and commercial layouts to reproduce real-life fire conditions and help firefighters improve their skills in fighting fires in high-rise buildings.

The 4,000-square-foot structure will be a four-story addition to an existing building at the Fire Academy and will feature a fire and flashover simulator, a central smoke system, a dry standpipe system, mock elevators and stairways, a simulated fire command station and video hookups on each floor for real-time review and instruction.

The simulator will replicate the heat and gases that are often encountered by firefighters during high-rise fires that can quickly spread and create hazardous conditions. This training will improve firefighters' ability to predict what they will encounter during real fires.

"The whole purpose [of the simulator] is



The FDNY breaks ground on the new high-rise simulator at the Fire Academy. (L to R) Chief of Department Salvatore Cassano, Fire Commissioner Nicholas Scoppetta, actor Denis Leary, Mayor Michael Bloomberg, Executive Director of the FDNY Foundation Jean O'Shea and Chief of Training Thomas Galvin.

to recreate real conditions in a safe, controlled environment," said Commissioner Scoppetta.

The unveiling came on the three-year anniversary of Black Sunday -- the tragic day when the FDNY lost three firefighters in two separate fires — Lt. John Bellew, Lt. Curtis Meyran and Firefighter Richard Sclafani.

Funding for the simulator was provided by the FDNY Foundation, the U.S. Department of Homeland Security and the city as well as \$3 million from the Leary Firefighters Foundation.

It will become an important part of the Fire Department's newly expanded 23-week training program for probationary firefighters. Since 2004, more than \$60 million has been dedicated to upgrading the facilities at the Fire Academy.

"Training firefighters is like training a football team ... but this is a team that always shows up first, so the more we give them, the better off we all are," said Mr. Leary. "As a guy who fights fake fires, I have a lot of respect for the people who do it for real."

WINDY CITY

(Continued from page 1)

pressurizing the area and driving smoke and heat away from stairways and corridors. This allows for temperatures to significantly drop in these areas, creating safer conditions.

Finally, firefighters tested a new High-Rise Nozzle to get water to the fire when conditions are too dangerous for firefighters to enter the fire floor.

To use this specially designed tool – which is a 10-foot tall pole that sprays

water – firefighters enter the apartment directly below the fire and hook the nozzle over the fire apartment's windowsill. This feeds water to the fire like a regular hose line and allows firefighters to battle the fire without entering the hazardous conditions of the fire apartment.

During this test officials looked at the type of water stream and quantity of water required to effectively control or extinguish the fire.

All the test results were analyzed six floors below by technicians who monitored each experiment. Although many

more tests will be needed to assess the effectiveness of each of these tools, fire officials said they are encouraged by what they have seen so far.

"We are bridging the gap between science and the art of firefighting," said Battalion Chief Gerald Tracy. "What we are doing is groundbreaking."

Representatives from major fire departments across North America attended the series of burn experiments, including Chicago, Los Angeles County, Boston, Denver, Boise, Washington D.C. and Ottawa.

One Bloodline Helps Kids a World Away

Firefighters honored for bone marrow donations at annual ceremony

Saving lives may be part of the job, but the firefighters honored on January 28 didn't don bunker gear for their outstanding rescues.

Firefighters William Zask, Jr., of Engine 257 and Louis Dym of Ladder 168 were lauded for donating bone marrow and saving the lives of two children, whom they met for the first time during the 4th Annual Honor Roll of Life ceremony at FDNY Headquarters on January 28.

Fifteen other firefighters also were honored for their life saving bone marrow donations in 2007.

"Today is one of those wonderful days when we get to honor what firefighters do best – save lives," said Fire Commissioner Nicholas Scoppetta. "Our firefighters do all sorts of things to save lives, and this way is lesser known to the public."

Firefighter Zask joined the FDNY as an EMT in 2004 and was promoted to the rank of firefighter in 2006, joining the National Marrow Donor Program while at the Academy.

Four months later he was called as a potential match for Alex Jomar Maldonado Cruz, a 2-year-old boy from Puerto Rico suffering from Osteopetrosis Renal Tubular Acidosis, a life-threatening con-



All bone marrow donors from 2007 who were honored at the annual Honor Roll of Life ceremony join Fire Commissioner Nicholas Scoppetta, Chief of Department Salvatore Cassano, Director of the Bureau of Health Services Mary T. McLaughlin and retired Firefighter Mark Kwalwasser (who helped create the program).

dition.

They searched for a match for six months, and just three days before his third birthday, on February 1, 2006, the young boy received his life-saving transplant.

When he met the firefighter

gave him a toy fire truck and a t-shirt from his firehouse. "This is incredible," he said. "I never thought I'd get this opportunity."

"Thank you, I am so very grateful," said Alex's mother, Jeinny.

Firefighter Dym, a five-year veteran of the FDNY, also joined the National Marrow Donor Program while at the Fire Academy. Nearly four years later he was called as a potential match for Coleman (Cole) Sierens, a 10-year-old boy from Winnipeg, Canada suffering from Acute Myelogenous Leukemia.

The boy was first diagnosed with the pediatric form of the disease, Acute Lymphocytic Leukemia, just before his sixth birthday. After more than three years of treatment, he was told he was free of cancer, but it returned in May 2006 and he was told he would need a bone marrow transplant. The boy received his life-saving transplant on October 13, 2006.

"I'm speechless," Firefighter Dym said as he met Cole, who is now 12-years-old. "To be able to save his life like this is pretty special."

(Continued on page 8)



Two firefighters had the chance to meet their bone marrow recipients during the ceremony. (Above left) Firefighter William Zask helps his bone marrow recipient, Alex Jomar Maldonado Cruz assemble a toy fire truck he gave him when they met. (Above right) Firefighter Louis Dym hugs his bone marrow recipient Coleman Sierens.

Military Salute

Wall Unveiled Honoring Members Killed While Serving in the Military; FDNY's Vets Honored

It was a salute to the nation's Bravest. The FDNY paid tribute to its members of the armed forces on January 19, unveiling a new tribute wall dedicated to the 44 FDNY members killed while serving in the military from World War I to Operation Iraqi Freedom.

"We will never forget the sacrifices our members have made for us – whether in a fire or war," said Chief of Department Salvatore Cassano during a ceremony at the Fire Academy on Randall's Island. "This is what our Department is made of."

Chief Cassano and the members of the FDNY's Veterans of Foreign Wars (VFW) Post 12033 helped dedicate the wall, which includes mounted firefighter helmets bearing the name and badge number of all the deceased members.

"I can now look at my father's helmet and speak with him," said retired Battalion Chief Brian O'Flaherty, the son of Firefighter Joseph O'Flaherty who was killed while serving in WWI. "It's spectacular."

The men who created the memorial read the name of each member during the cere-

mony, followed by a 21-gun salute by the 69th Infantry. Ladder 61's fire truck served as a backdrop during the event, honoring Firefighter Christian Engeldrum who was killed in 2004 while serving as a sergeant in the Army National Guard in Iraq.

"This marks our proudest personal achievement," said Post Quartermaster, Lieutenant Patrick Neville of Ladder 42.

Following the unveiling, a certificate of recognition was presented to all active FDNY members who have served in the armed forces. The family members of firefighters and EMS members currently serving overseas were on hand to accept the certificates on behalf of their loved ones.

Chief Cassano, a veteran of the Vietnam War, received a special award during the ceremony from the VFW Post for his sup-



FDNY members who have been killed while serving in the military were honored during a ceremony at the new memorial wall at the Fire Academy.

port of all veterans.

"Our soldiers, sailors, marines and airmen carry with them the American spirit," said Captain John Gormley of Division 6, an FDNY VFW Commander. "As we put together this wall we had just one thought ... There is no greater love than to give your life for another."

Safety First

FDNY Unveils Largest Fire Safety Campaign in Department History

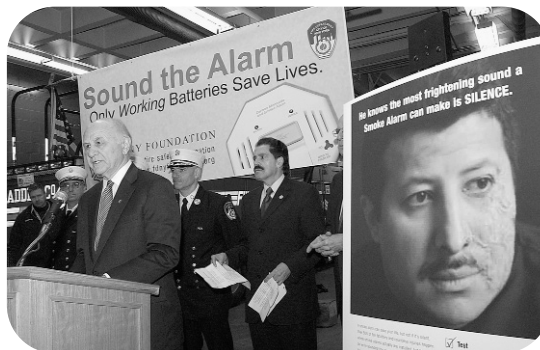
As every member knows, knowledge is power.

That's why Fire Commissioner Nicholas Scoppetta joined Chairman of the FDNY Foundation Stephen Ruzow and Congressman Jose Serrano (NY-16) on February 11 to unveil the largest fire safety campaign in Department history.

Funded by a \$900,000 grant from the U.S. Department of Homeland Security, the "Sound the Alarm" campaign educates the public on the importance of properly maintaining smoke alarms. The Department hopes it will help further reduce the number of fires throughout the five boroughs, as well as civilian fire fatalities and injuries.

"We want to focus on the need for every home to have a working smoke detector," said Commissioner Scoppetta. "For \$10 a smoke detector will literally save your life."

The "Sound the Alarm" campaign, which is expected to last more than six months, features a series of television, radio, print and internet advertisements and



Fire Commissioner Nicholas Scoppetta unveils the new "Sound the Alarm" fire safety campaign.

public service announcements.

It was unveiled at Engine 68/Ladder 49 in the Bronx, a company that responded to the tragic Woodycrest Avenue fire on March 7, 2007, which took the lives of nine children and one adult.

"We need to spread the message that smoke alarms save lives," said Chairman

Ruzow. "And it is everyone's job to check the expiration dates on their alarms and make sure they have a working battery."

According to the National Fire Protection Association, approximately 70 percent of all deadly residential fires occur in homes without working smoke alarms.

After the Woodycrest Avenue fire, with the support of Congressman Serrano, firefighters distributed more than 145,000 9-volt batteries (all donated by the FDNY Foundation) to residents throughout the five boroughs.

And twice a year before Daylight Saving Time, the Fire Safety Education Unit distributes 20,000 batteries at major transportation hubs across the City to encourage New Yorkers to change batteries in their smoke alarms and carbon monoxide detectors.

"We now ask the community to 'Sound the Alarm' in their neighborhoods and make sure everyone has a working smoke detector," said Congressman Serrano.

Valentine's Day Heart

Firefighters rescue elderly woman from Bronx fire

A 94-year-old woman in the Bronx received her all-time best Valentine's Day gift from three members of Ladder 37 this year.

The firefighters rescued her from an early morning fire in the Bronx on February 14.

"She's a tough woman," said Lt. Alfred Goodenough. "But if the guys didn't do such an aggressive forcible entry and search she might not be alive now."

The fire was first reported at 4:47 a.m. on February 14 at 250 East Gunhill Road.

Upon arrival, firefighters found heavy fire coming from a third floor apartment in the six-story building.

Lt. Goodenough (detailed to Ladder 37 from Engine 93) and Firefighters William Clark and Stephen Spellman immediately went to the floor above the fire to search for victims.

They forced open the door to the fourth floor apartment and found a heavy



Firefighters rescued an elderly woman on Valentine's Day. (L to R) Firefighter Stephen Spellman, Lt. Alfred Goodenough and Firefighter William Clark.

smoke condition.

"That's usually the toughest area to search because of the intense heat and smoke conditions," said Lt. Goodenough. "It's not a place you want to be."

As they searched, Firefighter Clark located an elderly woman on the living room floor. She was conscious, but unable to walk or crawl to the door and disoriented after breathing in all the carbon monoxide in the smoke.

"I heard some moans and groans and found her hunched over on the floor," said Firefighter Clark, who was working his last tour as a firefighter after being pro-

moted to lieutenant on February 11. "Right away she grabbed on to me and wouldn't let go."

The three men carried the victim past the fire doors and into an adjoining wing where they were met by EMS members who transported her to Jacobi Medical Center in stable condition with smoke inhalation. Two other civilians were taken to Jacobi with serious

injuries as well as one firefighter with minor injuries.

"The woman kept thanking us," said Lt. Goodenough. "She was grateful to have another day to live."

Firefighter Clark said he was thrilled to have such a great rescue in his last hours as a firefighter, saying, "It was spectacular to say the least."

Lt. Goodenough is a 28-year veteran of the FDNY, Firefighter Clark has been a firefighter for 15 years and Firefighter Spellman has more than 11 years on the job.

Happy Day

26 Fire and EMS Members Promoted

Twenty-six fire and EMS members assumed new roles in the FDNY during promotions on February 11.

Members were promoted to the rank of EMS deputy assistant chief, EMS division chief, EMS deputy chief, EMS captain and fire lieutenant during the ceremony at FDNY Headquarters. A new deputy fire commissioner for technology and support services also was sworn in at the event.

"You all represent the best this Department has to offer, and as you move up in your careers, the whole Department moves up with you," said Fire Commissioner Nicholas Scoppetta. "We owe each of you a debt of gratitude for your commitment and dedication to the job."

John Benanti was sworn in as the new

Deputy Fire Commissioner of Technology and Support Services. He is a 26 year veteran of City government, most recently as Deputy Commissioner at the Administration for Children's Services.

"The transition to your new positions will be difficult, but also very rewarding," said Chief of Department Salvatore Casano. "It's up to each of you to try and make a difference."

Among the promoted members was Lt. Patrick Burns whose father, Chief Donald Burns, was killed on September 11, 2001.

Also promoted was Lt. Victor Leeber of Engine 69, whose daughter Lauren overcame a meningococcal infection a few years ago.



Fire and EMS members were promoted in an enthusiastic ceremony at FDNY Headquarters on February.

Saving Lives

Firefighters save Brooklyn man from all-hands fire

It was a day to be proud. Firefighter Thomas Gies from Ladder 147 and other firefighters rescued an unconscious Brooklyn man from an all-hands apartment fire on February 6.

"It feels great to know I saved a life, but anyone in my position would have done the same thing," said Firefighter Gies, a 3-year veteran of the FDNY whose father, Lt. Ronnie Gies, died on September 11, 2001.

Firefighters from Ladder 147 responded to a fire at 864 Flatbush Avenue, a three-story mixed-dwelling, at 2:08 p.m.

The fire was reported on the second floor and when members of Ladder 147 arrived on the scene, they made their way to the third floor to search for victims.

After forcing the door, Firefighter Gies said the inside of the apartment was filled with smoke: "It was pitch black, you couldn't see."



Firefighter Thomas Gies (center) and other firefighters from Engine 281/Ladder 147 rescued an unconscious man from a fire on February 6.

As he searched he found a man in a back room laying unconscious near the couch.

Firefighter Gies and other members of his company quickly carried the man down the stairs to the street where CPR was performed, successfully resuscitating him.

The victim was transported by EMS to

Kings County Hospital in critical but stable condition. He was treated for high carbon dioxide levels.

Ladder 147's covering officer, Captain Chris Rigoli from Division 15, said Firefighter Gies and the other members of Ladder 147 did an outstanding job.

"After an aggressive search under arduous conditions, Firefighter Gies and the other members of Ladder 147 were able to save this man's life," he said.

Fire marshals determined the cause of the fire to be electrical.

Heroic Actions

Firefighter rescues trapped member

Firefighter Anthony Romano of Ladder 142 was credited for saving the life of a fellow firefighter from a second-alarm fire on February 26 in Richmond Hill, Queens. Members of Ladder 143 also were hailed for saving a civilian in the same fire.

At 3:17 a.m. firefighters were called to investigate a smoke condition on 114th Street. Upon arrival they discovered a fire at 87-13 114th Street, a three-story 25x50 frame house.

Members of Ladder 143 began their search and were able to locate and rescue a 75-year old man through a first floor window.

As Firefighter Robert Glover, Jr., of Ladder 143 continued his search on the

second floor, a flashover traveled up the stairs and trapped him in the rear of the building with Collyer's Mansion-like conditions.

Firefighter Romano then climbed a portable ladder to a rear window on the second floor, located Firefighter Glover and the pair rolled out the window just as the room lit up.

They hit a small roof overhang above a door before falling approximately 10 feet to the ground.

Firefighter Romano suffered bumps and bruises. He was treated and released from Jamaica Hospital.

Firefighter Grover was admitted to Cornell Medical Center with burns to his hands, neck and ears.



Honorable exploring: Firefighter Zackary Fletcher received the Outstanding New Advisor Award during the 20th Annual Exploring Recognition Dinner at Russo's on the Bay in Brooklyn on February 20. The dinner, hosted by U.S. Customs and Border Protection recognizes the work of Exploring Programs at various New York City agencies. He was joined at the dinner by more than 50 FDNY Exploring advisors and school children. More than 7,000 New York City high school students participate in Exploring programs, which help educate young people about future career choices.

Posthumous Award Given to Lieutenant at World Police and Fire Games Gala

Photo
of the
Month



Lieutenant Vic Navarra was honored posthumously by organizers of the 3rd Annual benefit gala for the 2011 World Police and Fire Games on February 27 at Manhattan's Marriott Marquis Hotel.

He was honored for his vision and enthusiasm both on the job and after retirement.

"He was kind, considerate and dedicated," said Chief of Department Salvatore Cassano. "Not getting involved was not in his vocabulary."

Vic's wife, Joanne, accepted a Medal of Honor for him during the annual dinner, which garners support for the 2011 World Police and Fire Games in New York.

"Having the Games in New York was always his dream," said Joanne Navarra. "He always said: 'If you can't be in it you have to be a part of it.'"

Lt. Navarra joined the FDNY in 1977, and during his 21 years as a firefighter, he served as Director of Fire Safety Education, sat on the Board of Directors for the Fire Museum and was a key developer of the Fire Zone education

center.

He also partnered with Dick McGuire to form the FDNY's first running team at the 1985 World Police and Fire Games in California.

After retirement, he and his wife, Joanne, served for 26 years as start coordinators for the New York City Marathon and was an active participant in the Staten Island running community.

He also helped secure funds for the New York Firefighters Burn Center Foundation through a number of races.

In the months following the attacks of September 11, he helped search for victims in the rubble and provided assistance and support to the members of Engine 40/Ladder 35, where he served as lieutenant for five years.

James Carney, retired firefighter from Engine 69, serves as President/CEO of 2011 World Police and Fire Games along with Lt. Bill Miccio, who is Vice President. For more information about the 2011 Games, visit www.2011wpfg.org

Bone Marrow Donations

(Continued from page 4)

Cole's mother, Trina, said she, too, was overwhelmed by the experience: "It was so incredible to find a match for Cole. All I can say is 'thank you,' but it's just not enough."

Since the program's inception in 1990, 98 firefighters have donated bone marrow to help 106 patients with life-threatening diseases, including cancers and blood disorders. The FDNY is the largest single group registered with the NYBC, with more than 8,000 members.

"Each of you has gone above and beyond to save lives," said New York Blood Center's Board of Trustees Chairman Howard Milstein. "Running into burning buildings isn't enough, now you have to do more. The FDNY is batting at about 40 times its weight to help the community."

To learn more about the program or to find out how you can be a bone marrow donor, visit www.nybc.org.

Firefighters who were added to the Honor Roll of Life plaque for donating bone marrow in 2007 include:

Firefighter Frank Criscuolo, Engine 53
 Firefighter Jason Dorry, Ladder 3
 Firefighter Daniel Fitzsimmons,
 Ladder 128
 Firefighter Michael Galvin, Ladder 156
 Firefighter William Greenberg,
 Ladder 17
 Firefighter Michael Guli, Engine 290
 Firefighter Alexander Lee, Engine 69
 Firefighter Edward Long, Engine 69
 Firefighter Robert McCormick,
 Ladder 106
 Firefighter Mark Mianulli, Engine 45
 Firefighter Fernando Moscoso,
 Engine 297
 Firefighter Christopher Nobile,
 Ladder 25
 Fire Marshal Robert Ravert
 Firefighter Henry Santiago, Jr., Engine 8
 Firefighter Thomas Westhoff,
 Engine 280
 Firefighter William Zask, Jr., Engine 257



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MARCH 2008

NEWSLETTER OF THE NYC FIRE DEPARTMENT

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FDNY

1865-2008

A 144 YEAR HISTORY

OF COMMITMENT, COURAGE & COMPASSION