

City of Madison Fire Department



2007 Annual Report



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608-266-4420 Phone, 608-267-1100 Fax, www.madisonfire.org*

As the 2007 City of Madison Fire Department annual report goes to print, the Department is mourning the loss of its Medical Director, Dr. Darren Bean in a Med Flight helicopter crash on May 10, 2008.

Dr. Bean joined the Department on January 1, 2007. In the brief time that he was with us he made an indelible impression on all of us with his care and compassion, his intellect, and his enthusiasm for innovation. His legacy is already apparent in the lives saved through the adoption of protocols for cardiac patient care. The department extends its deepest sympathies to his wife, Dr. Stacey Bean, and their children Caitlyn and Parker. They remain part of the Madison Fire Department family, as Dr. Bean was.



Madison Fire Department
STATEMENT OF PURPOSE

We are an innovative, nationally recognized fire department providing a quality service to the City of Madison and surrounding areas.

We are proud of the strength and diversity of our workforce and emphasize continuous service improvement, focusing on the preservation of life, property and the environment.

We recognize the value of our employees. Using participatory management, their input is solicited to improve department decisions.

We value compassion, honesty, integrity, teamwork and inner strength. These values are in balance with the traditional focus of physical strength and courage.

The Madison Fire Department is prepared to handle all emergencies, including major disasters, that may occur in our community.

A MESSAGE FROM FIRE CHIEF DEBRA H. AMESQUA

2007 ended with a dramatic show of gratitude in the form of a young man who returned to visit the paramedics who had treated him for a serious injury earlier in the year. It wasn't just the visit that made such a remarkable impression. This young man, who had been near death just a few months earlier, is preparing to return to school and study to be a firefighter/paramedic.



"What they (the paramedics) did was a big deal. I would like to be able to do that for someone else." The young man asked for a 24-hour ride along as a way to say thanks to the firefighter/paramedics who kept in touch with him throughout his recovery. - Excerpted from the Wisconsin State Journal

This was a rare event of course, but a reminder of the immense responsibility carried by those who work to preserve public safety.

In reviewing the past year, I am reminded of countless instances of good work generated by this Department and take this opportunity to thank you for your dedication to the safety of our community.

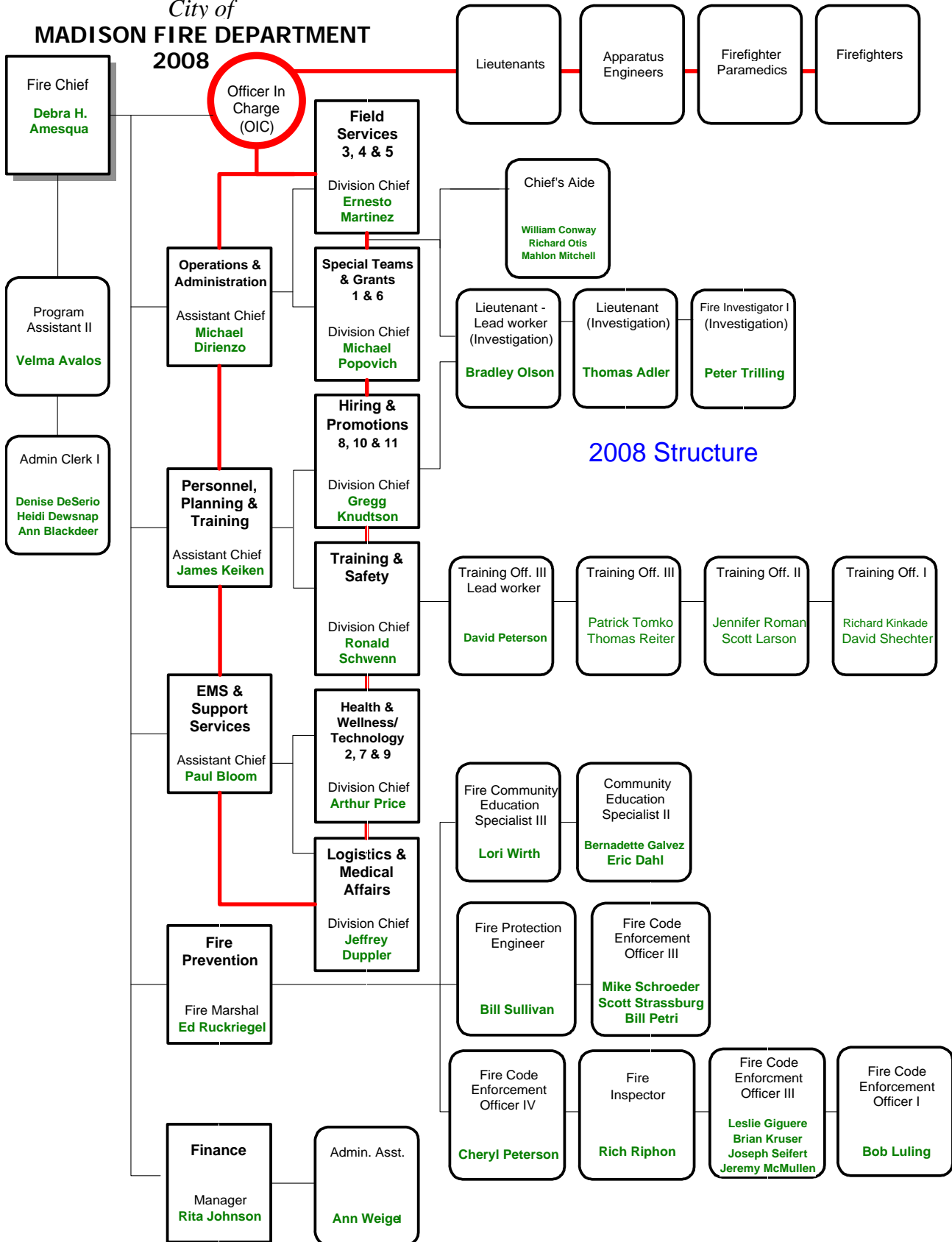
With the fresh loss of Dr. Darren Bean, we are again reminded that life is precious and fragile. But among the many lessons this gifted educator left us, is the certainty that individuals can indeed make a difference.

Whether a commissioned firefighter, a prevention officer, or administrative staff, your work makes an important difference in maintaining the quality of life that the City of Madison holds dear.

As a Department, we take pride in the confidence placed in us by the City and its residents.

It is my privilege to thank each of you for the day-to-day actions that contribute to that confidence.

City of
MADISON FIRE DEPARTMENT
2008



2008 Structure

MANAGEMENT STAFF



Fire Chief Debra H. Amesqua



Assistant Chief James Keiken



Assistant Chief Michael Dirienzo



Assistant Chief Paul Bloom



Division Chief Gregg Knudtson



Division Chief Ernesto Martinez



Division Chief Ronald Schwenn



Division Chief Jeffrey Duppler



Division Chief Michael Popovich



Division Chief Arthur Price



Fire Marshal Edwin Ruckriegel



Finance Manager Rita Johnson



*Velma G Avalos, Secretary to the
Fire Chief & Administrative
Support Supervisor*

FIRE STATIONS

*Station 1
316 W Dayton St (03)*



*Station 2
421 Grand Canyon (19)*



*Station 3
1217 Williamson St (03)*



*Station 4
1437 Monroe St (11)*



*Station 5
4418 Cottage Grove Rd (16)*



*Station 6
825 W Badger Rd (13)*



*Station 7
1810 McKenna Blvd (11)*



*Station 8
3945 Lien Rd (04)*



*Station 9
201 N Midvale Rd (05)*



*Station 10
1517 Troy Dr (04)*



*Station 11
4011 Morgan Way (18)*



*Future Station 12
400 South Point Rd 53593*



OPERATIONS & ADMINISTRATION

The Operations & Administration Division is the largest division in the Department and in 2007 was under the supervision of Assistant Chief Michael C. Dirienzo.

CITY OF MADISON STAFFING AND COVERAGE

The City of Madison Fire Department currently operates out of 11 Fire Stations throughout the city with a staffing of 68 personnel on duty each day. There are 9 Engine companies, 4 Ladder companies, 7 Paramedic Ambulances and 1 Command Vehicle in service every day to serve the citizens of and visitors to the City of Madison. In 2007 the City of Madison Fire Department responded to 24,512 calls. The most common type of call was for Emergency Medical Services. EMS calls accounted for 18,969 of this total. The accompanying chart has a more complete breakdown of types of calls and occurrences. The Department continues to staff an extra Rescue at Station #4 on Monroe Street on Fridays and Saturdays during the University of Wisconsin football season. This Rescue averaged 8.75 calls a day for the 24 days it was in service. It averaged 14.57 calls a day on the 7 Saturday UW home football games. The staffing of this extra Rescue allows the other 7 Rescues in the City to maintain coverage in their assigned territories instead of being drawn into the downtown/campus area during these high-demand days.

CREATIVE STAFFING PROGRAM

The Daily Staffing Equalization program involves individuals volunteering to be sent home on days when staff exceeds normal levels and working back on a day that is below normal levels. The program once again saved the Department and the City overtime costs in FY 2007. There were 561 voluntary send homes in 2007. 87 of these send homes will be worked back in 2008. There were 664 work backs in 2007 (71 from 2003, 131 from 2006, and 462 from 2007). These have a face value of \$571,704 in overtime costs. Once inconvenience pay (\$35,894), Holiday Pay Back Pay (\$157,639), Chiefs Aide OT (\$2,934) and FLSA pay (\$113,628) as well as unneeded work backs (189) are factored in, the net overtime savings is **\$98,880**. This amounts to a 17% efficiency rate as compared to a 14% efficiency rate in 2006.

**Creative Staffing Savings
January 1-December 31, 2007**

	Number	Value Per Shift	Value	Efficiency Rate
Shifts Worked Back:	664	(@\$861/shift)	\$571,704	100.00%
Actual Overtimes Saved:	475	(@\$861/shift)	\$408,975	71.54%
Inconvenience Pay & Holiday Pay Back Pay:			(\$193,533)	
<u>Chief's Aid OT Pay & FLSA Pay:</u>			(\$116,562)	
Net Savings:			\$98,880	17.30%

SPECIAL EVENTS

There are a number of special events that the Madison Fire Department deals with every year. Through planning, experience, and cooperation with other agencies we are able to effectively deal with all of these special events. The Mifflin Street block party, the Madison Marathon, Rhythm and Booms, and the Ironman Triathlon all took place with a minimum of problems in 2007.

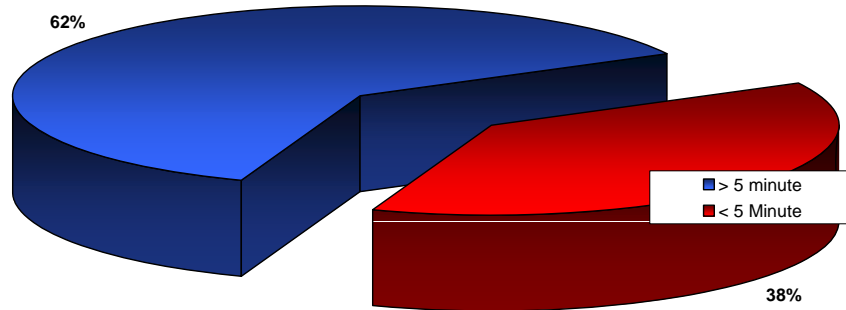
Our most challenging special event remains the State Street Halloween party. The 2007 event, like the 2006 event, was remarkably safe with only 60 Fire and EMS responses during the two-night event.

Operations is already preparing for the major events of 2008 as well as any new endeavors that may come our way.

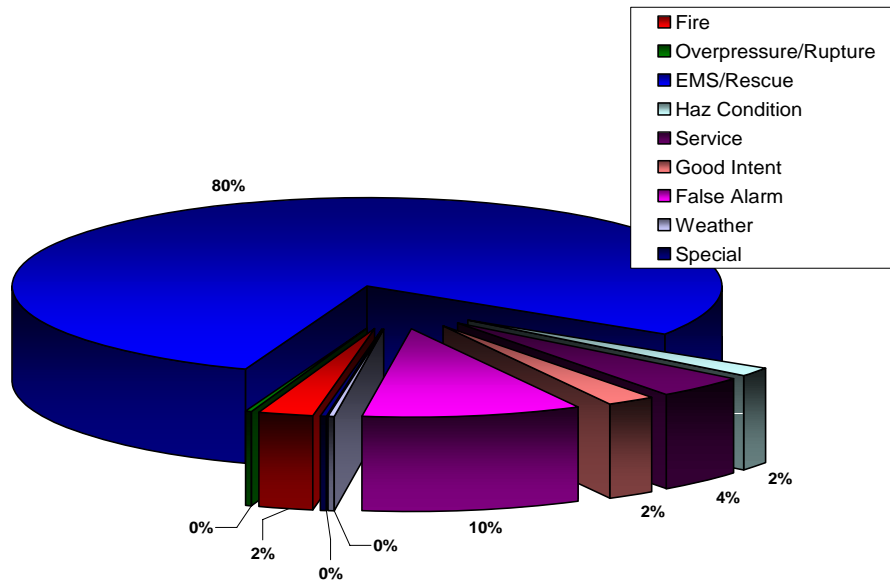
Type of Situation Found	Year 2007	Year 2006	Percent Change
Structure Fire	283	277	2.17%
Vehicle Fire	114	84	35.71%
Trees, Brush, Grass Fire	59	33	78.79%
Refuse Fire	103	108	-4.63%
Outside of Structure Fire	36	35	2.86%
Overpressure Rupture, Other	6	6	0.00%
Steam Rupture	7	17	-58.82%
Air, Gas Rupture	7	4	75.00%
Explosion, No Fire	3	5	-40.00%
Excessive Heat	27	18	50.00%
Emergency Medical Call	18,969	17,320	9.52%
Lock-In	51	61	-16.39%
Search	2	2	0.00%
Extrication	145	123	17.89%
Water Rescue	27	31	-12.90%
Electrocution	0	1	-100.00%
Rescue or EMS Standby	105	271	-61.25%
Hazardous Condition - Other	41	54	-24.07%
Spill, Leak with No Ignition	165	172	-4.07%
Chemical Emergency	40	34	17.65%
Power Line Down	44	104	-57.69%
Arcing, Shorted Electrical Equipment	120	99	21.21%
Biological Hazard	1	0	NA
Potential Accident	4	9	-55.56%
Aircraft Standby	6	4	50.00%
Vehicle Accident - Cleanup	7	13	-46.15%
Explosive	1	1	0.00%
Attempted Burning	3	3	0.00%
Service Call - Other	299	309	-3.24%
Lock-Out	80	44	81.82%
Jewelry Removal	1	0	NA
Water Evacuation	94	58	62.07%
Smoke, Odor Removal	224	203	10.34%
Animal Rescue	2	1	100.00%
Public Service Assistance	233	159	46.54%
Unauthorized Burning	49	43	13.95%
Move Up, Fill In	3	2	50.00%
Good Intent Call, Not Classified	305	371	-17.79%
Cancelled En Route	60	132	-54.55%
Wrong Location	22	37	-40.54%
Controlled Burning	44	27	62.96%
Vicinity Alarms	4	1	300.00%
Smoke Scare	96	87	10.34%
EMS - Other Transport	10	20	-50.00%
Hazmat	28	32	-12.50%
False Call, Not Classified	341	473	-27.91%
Malicious, Mischievous False Call	232	252	-7.94%
Bomb Scare, No Bomb	14	2	600.00%
System Malfunction	658	603	9.12%
Unintentional False Alarm	1,231	1,024	20.21%
Severe Weather	6	24	-75.00%
Special Incident Type	61	73	-16.44%
Citizen Complaint	39	43	-9.30%
Blank	0	6	-100.00%
Total	24512	22915	6.97%

5 Minute Response Goals

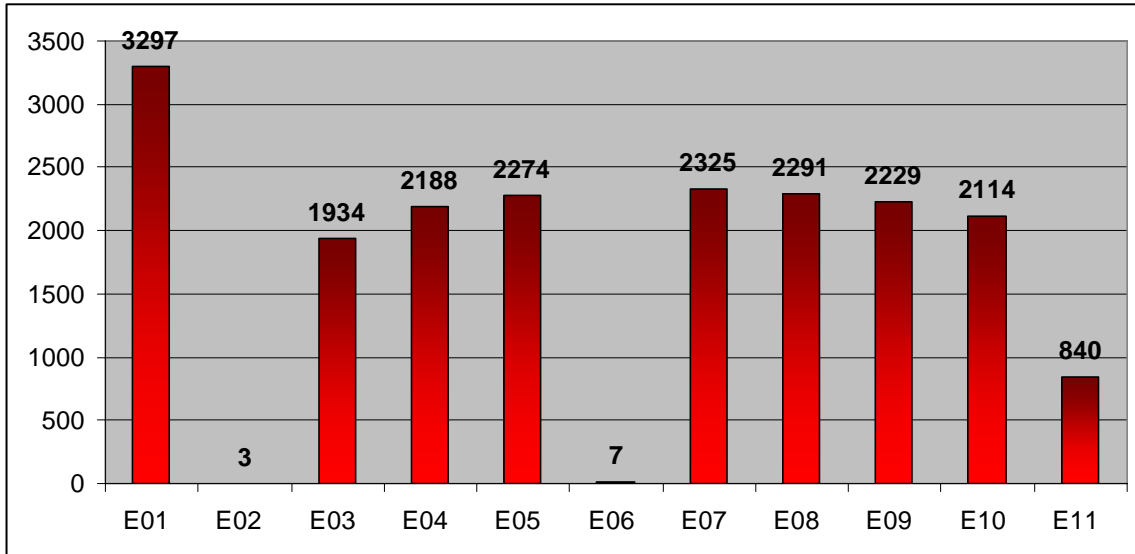
(NFPA 1710 sets goal of 5 minutes or less, 90% of the time)



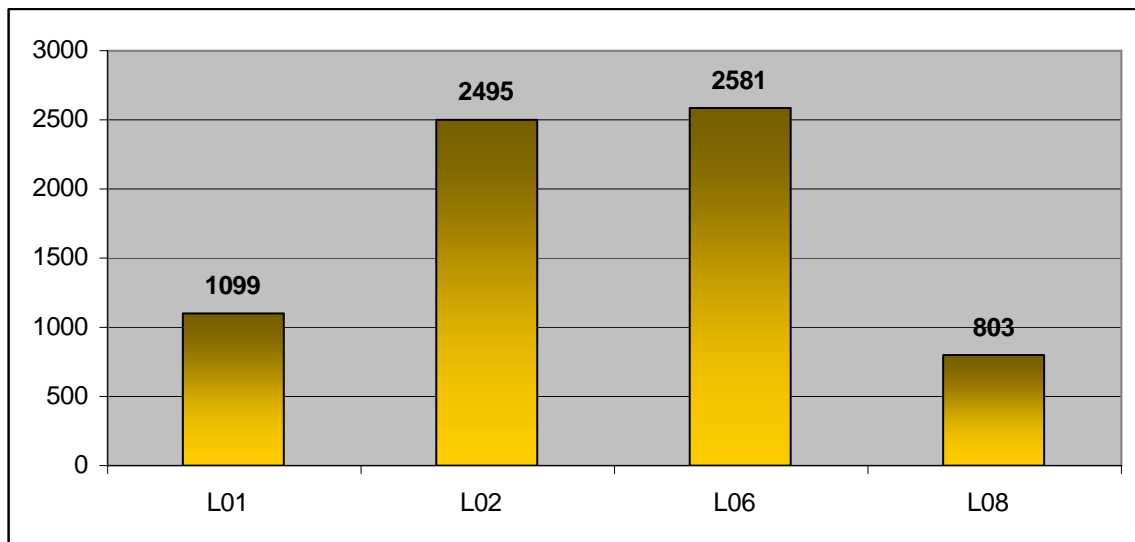
2007 Activity for Madison Fire Department



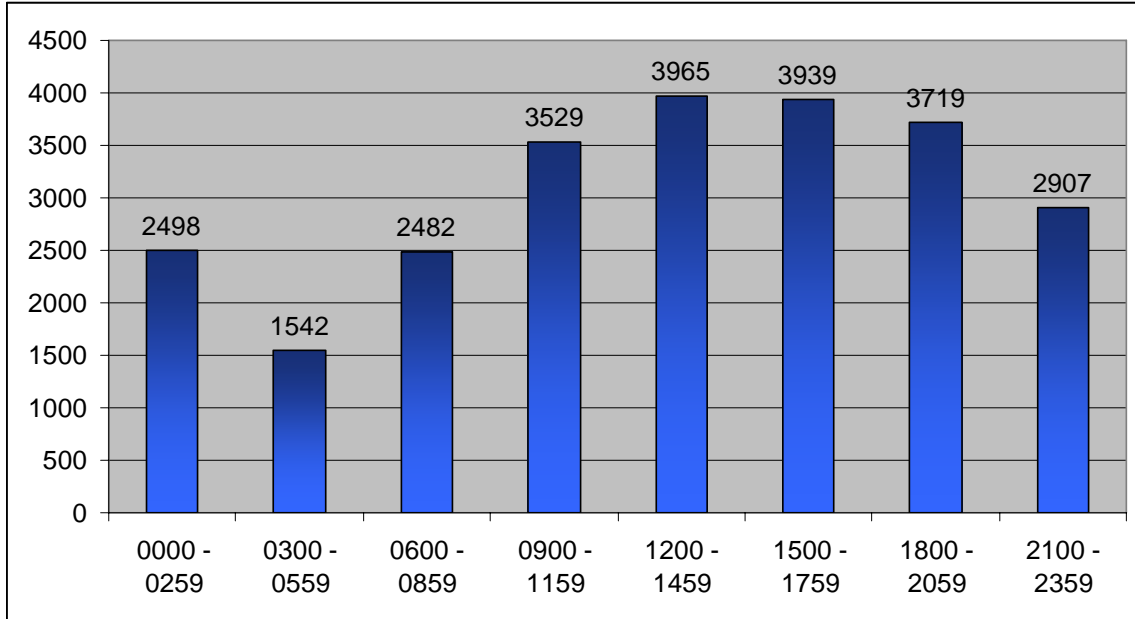
2007 Engine Activity



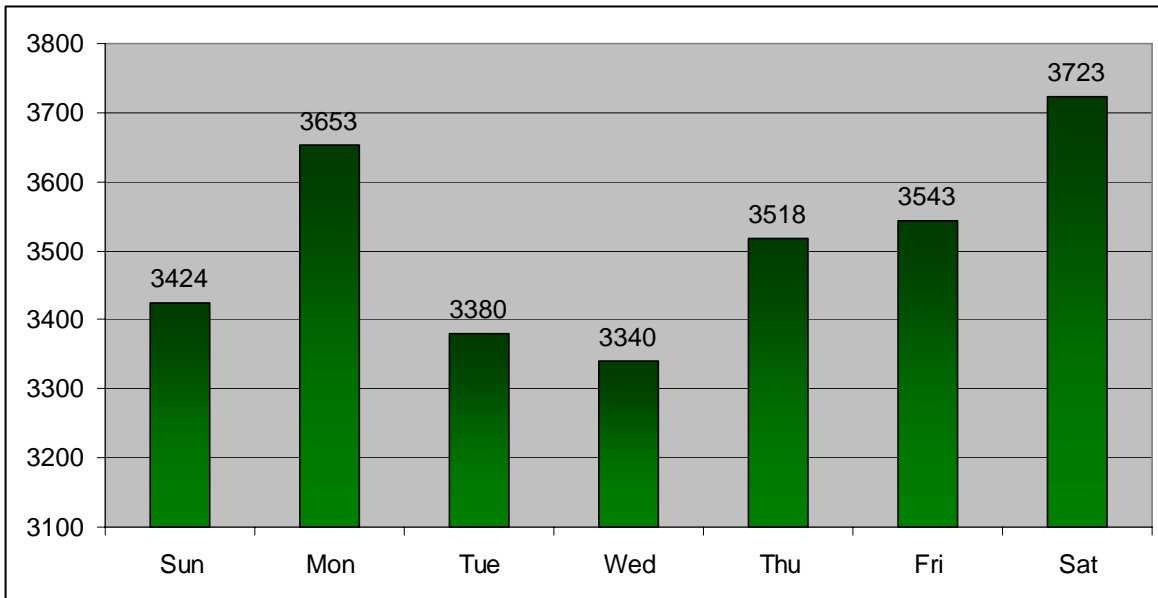
2007 Ladder Activity



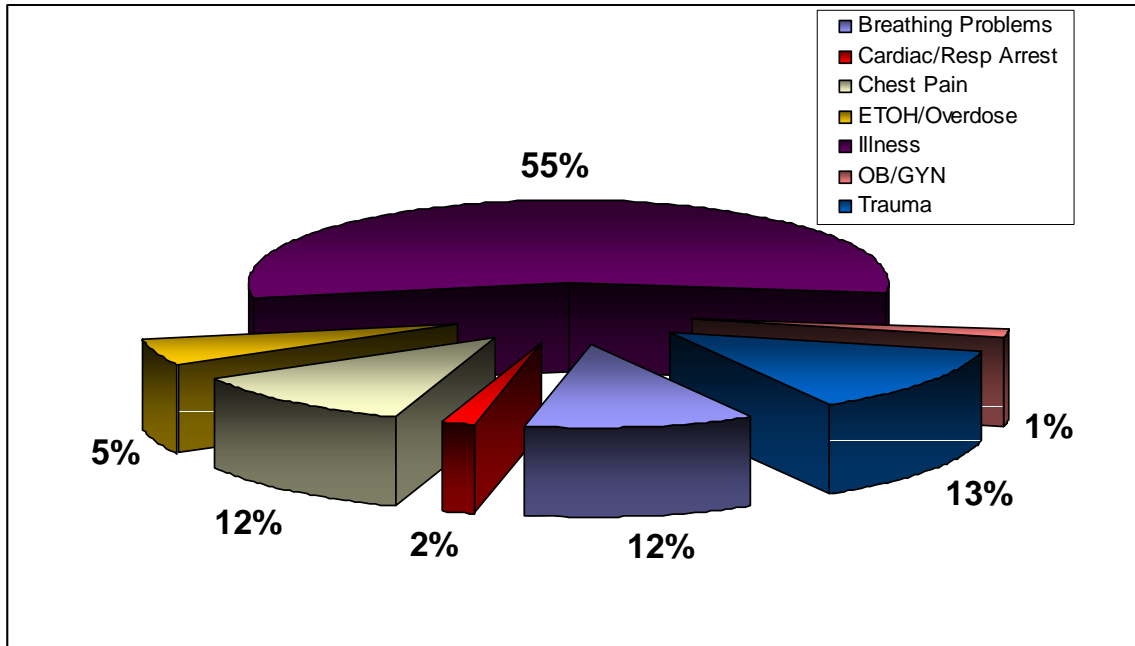
2007 Activity by Time of Day



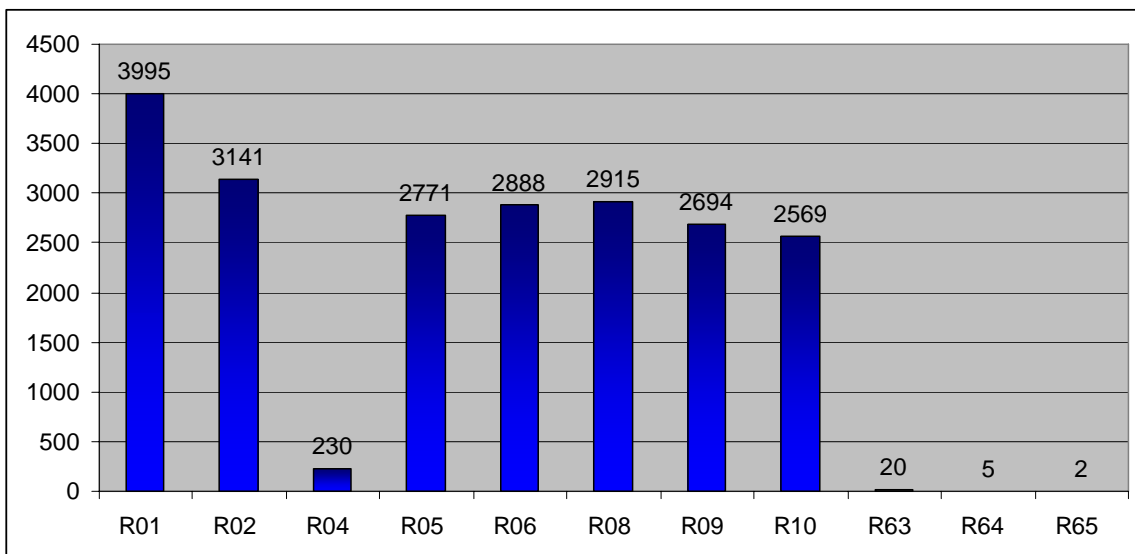
2007 Activity by Day of Week



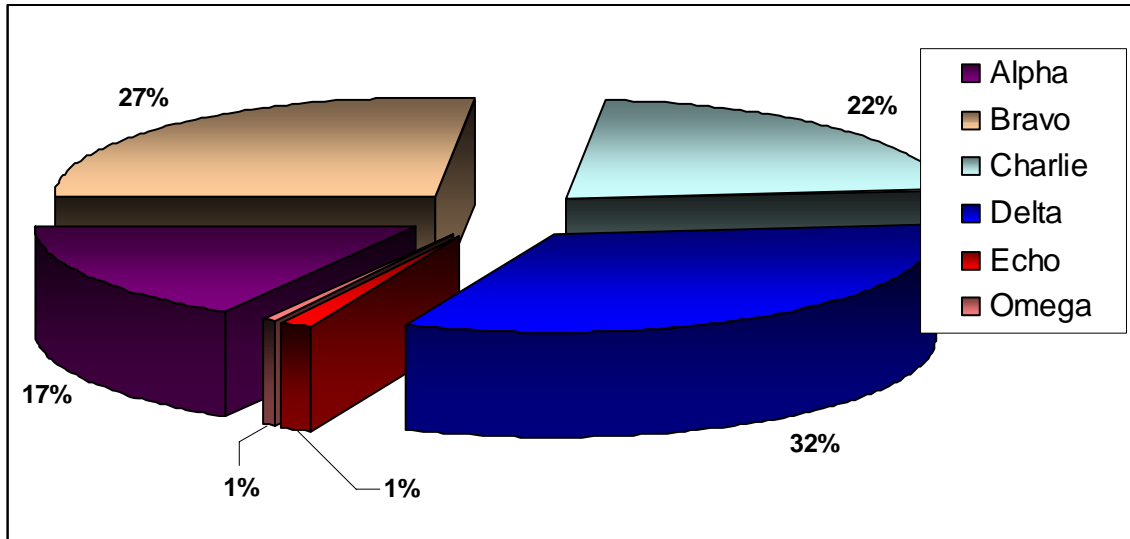
2007 EMS Call Type



2007 EMS Activity per Rescue/Ambulance

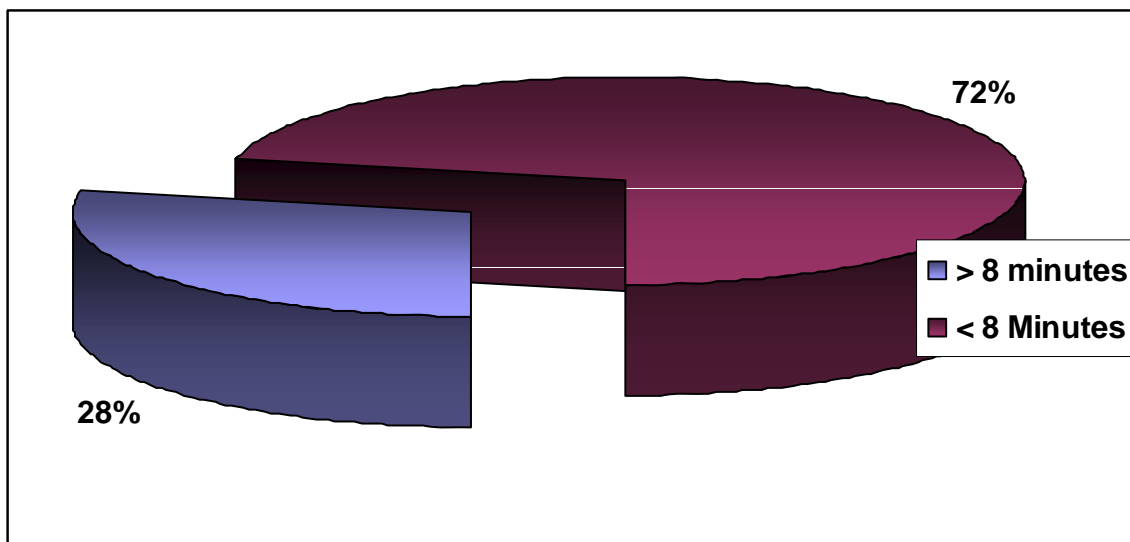


2007 EMS Call by Dispatch Type

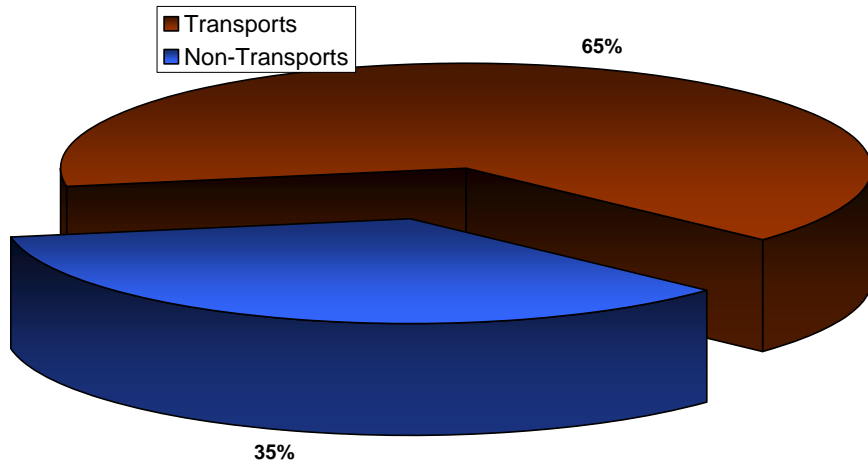


EMS ALS Response Time

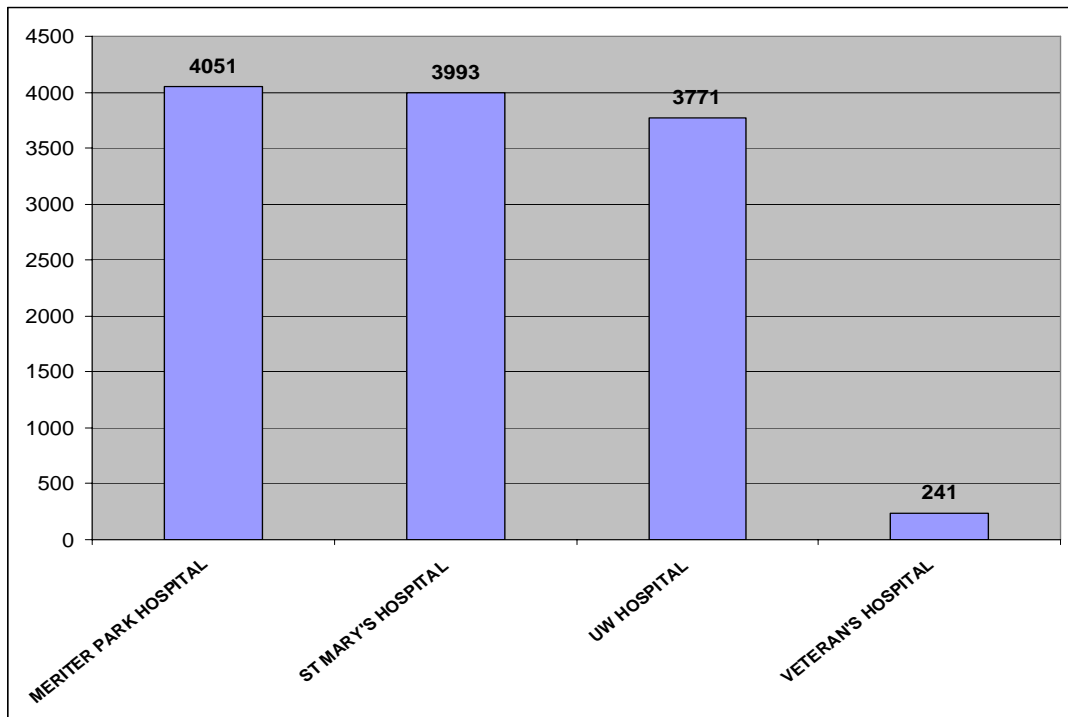
(NFPA 1710 sets goal of 8 minutes or less, 90% of the time)



2007 EMS Calls



Number of Transports per Hospital



FIELD SERVICES

Field Services is a subdivision under Operations and Administration and is responsible for coordinating activities for field personnel. Field Services, along with Operations and Administration, coordinates company standards, firefighter skills assessment, and policy implementation on how the Department responds to calls for service. They also work directly with the Dane County 911 Center to train new dispatchers as well as serve as liaisons with various local and regional entities to assure clear communications between the Madison Fire Department and its internal and external customers. In 2007 Field Services was under the supervision of Division Chief Ernesto Martinez.

COMPANY STANDARDS

Company Standards is a formal evaluation of a ladder company and/or engine company's functional operation. Madison Fire Department requires company standards every other year and they were completed in 2007. There was a change in the company standards for 2007: MFD went from 50' 4" to 50' and 100' 5" supply lines making the logistics a bit more complicated with the added weight and length.

MFD also introduced an updated High Rise kit consisting of a 2-1/2" hose, which replaced our 1-3/4" hose, smooth bore nozzles, and in line pressure gauges to fine tune the needed tip pressures. This new equipment has been ordered and is scheduled to be put in place in 2008.



RAPID INTERVENTION TEAM (RIT)

The Madison Fire Department's RIT unit had a extremely busy year in 2007. Training on survival/rescue tactics was delivered to all RIT members. The focus was on self rescue (window bailouts), SCBA familiarity, search rope review, MAYDAY radio protocol, breathing air trans-fills, PASS alarm recognition, and movement of downed firefighters. In addition, various new pieces of equipment were researched and purchased including the new MSA Thermal

Imaging Cameras that have been delivered to the Ladder Companies.

MFD also purchased strobe lights to help identify secondary exits at fires. These strobe lights are attached to the tips of ladders to identify access points from roofs or windows. They can also be attached to doorways. Portable 750 kw gas powered lights which provide remote scene lighting were also purchased. Chainsaws were added to the RIT tool inventory and the firefighter tracking board was revamped to better meet the needs of the RIT 2 assignment. These purchases were the result of research conducted by RIT unit members. It was a good year for MFD firefighter safety. **Thank you RIT crews!**

HEAVY URBAN RESCUE TEAM (TF II)

Heavy Urban Rescue Team members went through extensive training in 2007. Training included a 40-hour Rope Rescue Operations level course, a 40-hour Confined Space Technician course, as well as completing a 17-hour Trench Collapse course started in 2006.

In fall 2007, members completed a 40-hour Trench Collapse Technician course, 40 hours of Rope Technician level training, as well as 80 hours of Collapse Operations and Technician level training at Volk Field.



Field Services continued

Team members learned how to use lumber and the required nail patterns for shoring floors, walls, doorways, windows, and roofs. They also learned how to use concrete cutting and breaking tools, how to use steel cutting torches of various kinds, how to use listening devices, and how to work with crane operators to move heavy concrete. MFD team members also worked with members from other Task Forces to accomplish all tasks necessary to mitigate a heavy collapse. Members spent 257 hours of training in 2007. This does not include the individual training spent on learning the new tools carried on the Heavy Rescue Squad and the Rope Rescue Trailer.



We continued our equipment acquisition in 2007 using OJA grant money. We were able to purchase a \$65,000.00 tow vehicle for our heavy equipment trailer as well as miscellaneous tools and equipment to augment our "tool box". Some of the tools and equipment purchased were incident management vests, safety cones, perimeter tape, rope rescue equipment, cold weather gear, and carpentry tools.



In 2007 we provided outreach to the Stoughton Fire Department with an awareness level presentation on our various disciplines, followed by a showing of our heavy rescue squad and its capabilities. In November our team took part in a farm safety symposium where we demonstrated a grain bin confined space rescue. After the demonstration we worked with the Stoughton Fire Department and Stoughton EMS and explained the complexities involved in a Confined Space technical rescue to the symposium attendees. This safety symposium took place at a farm outside of Stoughton.

We will continue to train throughout the coming year to ensure our team members are prepared to mitigate any collapse rescues or other types of technical rescues that may occur.

SPECIAL TEAMS

Special Teams is a subdivision under Operations and Administration and consists of the Hazardous Incident Team (HIT) and the Lake Rescue Team. In 2007 Special Teams were under the supervision of Division Chief Michael Popovich.

HAZARDOUS INCIDENT TEAM



The Hazardous Incident Team (HIT) consists of 69 members. There are 23 members staffed on each shift. Lieutenant David Peterson, assigned to the Training Division, coordinates the team's training. Fire Inspector Rich Riphon manages monitor calibration, equipment purchasing, and response reimbursements.

The MFD provides several levels of Hazardous Materials response to the community including:

- **Level I Response** - Requires the nearest engine or ladder company and the resources of the HIT leader.
- **Level II Response** - Requires the expertise and resources of the HIT Core members at Station 6 including the HIT leader.
- **Level III Response** - Requires a full team response of 14 to 19 members.

The HIT team is under contract with the State of Wisconsin, and therefore provides Level A regional response to nine counties: Dodge, Columbia, Sauk, Dane, Iowa, Grant, Lafayette, Green and Rock County. In addition to Level A service, the team also provides Level B response throughout Dane County.

2007 HIT Training

HIT team members completed 377 hours of training in 2007. Trainings included two seminars sponsored by Wisconsin Emergency Management, three sessions on hazmat containers presented by Bill Hand, and a session on HazMat IQ chemistry system presented by Cris Aguirre and Joe Gorman. Members also participated in a training session on HazMat ID with Smiths Detection.



HIT team members worked closely with the 54th Civil Support Team to better prepare for terrorism incidents involving weapons of mass destruction. The team also participated in several exercises with other agencies.

The 2008 HIT training plan is being designed based on a survey conducted in 2007.

Responses

Since the Hazardous Incident Team began operations in January 1987, a total of 613 calls have been logged. These calls include 24 Level A responses or 3.91%. In 2007, we responded to 65 incidents, a decrease of 14.5%. These incidents included:

Level

Level I responses	55	(84.6%)
Level II responses	10	(15.4%)
Level III responses	0	

Type

Fixed site incidents:	56	(86.2%)
Transportation incidents:	9	(13.8%)

Location

Responses in Madison:	51	(78.5%)
Responses outside of Madison:	14	(21.5%)

HIT Community Outreach

The HIT unit continues to realize the importance of outreach through training and participation in small and large-scale exercises. The HIT is accessible to any area department or agency for emergency consultation and response.

The HIT participated in the following 12 events in 2007 totaling over 56 hours:

- ✓ Discussion with Dodgeville Fire Chief
- ✓ Discussion with Department of Natural Resources about Roxbury pesticide event
- ✓ Tabletop exercise with Verona
- ✓ Heavy Urban Rescue Team training (HIT 5)
- ✓ Outreach with Mazomanie Fire Department
- ✓ Outreach with American Red Cross
- ✓ Outreach with Portage Fire Department
- ✓ Exercise with postal employees and Dane County Decontamination Teams at Madison's Main Post Office
- ✓ Decontamination Exercise at Lot 60 on the UW campus in conjunction with Dane County Decontamination Teams and Madison area hospitals.

LAKE RESCUE TEAM

The Lake Rescue Team consists of 50 field members. There are three instructors certified by the Professional Association of Diving Instructors (PADI). One instructor is assigned to each of our three shifts. The instructors are Jeff Mast, Ryan Stebnitz, and Mike Fuss. Lieutenant Steve Davis is the Lake Rescue Team's coordinator.



Outreach and Training

The Lake Rescue Team provided a safe environment for participants at the University of Wisconsin's Midwest Rowing Regatta, a popular two-day spring event. Members also volunteered their time for the Special Olympics annual fundraiser at Olin Park.

The PADI instructors attended a three-day course presented by Dive Rescue International. The course was hosted by the Dane County Sheriff's Office and provided instructors with the methods and skills needed to function at a water rescue scene. Instructors brought back the information and enabled other team members to sharpen their skills.

The Team conducted a drill with the Maple Bluff Fire Department, reviewing ice rescue procedures.

Members on the team conducted training totaling over 349 hours in 2007. Some of the areas covered included:

- ✓ Open Water Dives
- ✓ Search Patterns
- ✓ Night Dives
- ✓ Ice Dive
- ✓ Boat and ATV Operations
- ✓ Lake Rescue Gear inspection

Equipment

The Madison Fire Department secured grant funding to purchase a specialty All-Terrain Vehicle. The *ARGO* is equipped with tracks and chains, and eight-wheel drive. These features enable the vehicle to get through the toughest terrain including water, ice, and marshy areas.

Realizing that virtually every call for help offers different challenges, the team purchased a 14-foot long Tracker John Boat. This lightweight boat gives members another tool for ice and water rescue.

Also purchased in 2007 was a portable fire pump providing the ability to respond to fires on the water, beyond the reach of fire hydrants and fire hoses.



GRANTS

Madison Fire Department's Grants Department is a subdivision of Operations and Administration and in 2007 was under the supervision of Division Chief Michael Popovich. The following are highlights of accomplishments for the Grants Department in 2007.

2006 Task Force II, Heavy Rescue Team Office of Justice Assistance Grant

The Madison Fire Department has requested approximately \$70,000 from the Office of Justice Assistance Grant. The grant was approved and funds will be used to purchase a vehicle for personnel and equipment transportation. Partial funds will be used to support the Urban Search and Rescue Team in Madison.

The Assistance to Firefighters Grant (AFG) Program

The AFG is a program of the Federal Emergency Management Agency (FEMA). These grants are awarded to fire departments to enhance their ability to protect the public and fire service personnel from fire and related hazards. Three types of grants are available: Assistance to Firefighters Grant (AFG), Fire Prevention and Safety (FP&S), and Staffing for Adequate Fire and Emergency Response (SAFER). In 2005 the Madison Fire Department was successful in receiving a Grant award of \$295,750. This includes City matching funds of \$59,150. In 2006 the work was completed to include fire detection and alarm systems at five Fire Stations. Also purchased and delivered were a Self Contained Breathing Apparatus air compressor and a Fire Apparatus/Ambulance Drivers' Training Simulator.

2006 Staffing for Adequate Fire and Emergency Response

The Madison Fire Department requested \$1.8 million dollars for eighteen firefighter positions. Due to the extremely competitive nature of this award, we were not successful in securing funding. The Department will continue to apply for this grant if it is available in the future.

2006 Assistance to Firefighters Grant Program

The application for the 2006 Assistance to Firefighters Grant Program was submitted in 2006, however we did not receive notification of award until March of 2007. The Department was able to purchase six thermal imaging cameras and installed sprinkler systems at Fire Stations #1, 5, and 6 with the funds from this grant. The total amount awarded was \$ 277,000, which includes the City's 20% matching funds.

2006 Fire Prevention and Safety Grant

The Department applied for funding in the amount of \$101,448 to provide training and equipment for members of the community in the event of an emergency. Citizens trained in emergency preparedness would then carry the awareness message to others in the city. The Department did not receive funding for this grant but will continue to apply if it is available in the future.

2007 Educational Grant

The Department was awarded the Warren E. Isman Educational Grant from the National Fire Protection Association. The \$5000 award will enable several members of the Hazardous Incident Team to attend the Hot Zone hazardous materials conference in Houston TX.

2007 Assistance to Firefighters Grant Program

The Madison Fire Department applied for the 2007 AFG Program and received notice of award in February 2008. The total amount awarded was \$213,097. This grant request was for additional station sprinkler systems, a thermal imaging camera, a station air compressor, and a firefighter accountability/incident command system to better promote first responder safety and survival.

2007 Staffing for Adequate Fire and Emergency Response

As the city continues to grow, and the need for resources increases, so do the needs for added fire department personnel. The Department applied for this grant 2007 and is awaiting notification. Six firefighter positions have been requested.

2007 Fire Prevention and Safety Grant

This community education grant was submitted at the end of 2007. A "hazard house" with modules related to fire safety, falls prevention, winter risks, weather conditions, and emergency preparedness was requested. We are waiting for notification.

PERSONNEL, PLANNING & TRAINING

Personnel, Planning & Training Division oversees Hiring & Promotions as well as Training & Safety and in 2007 was under the supervision of Assistant Chief James Keiken.

With the settlement of issues related to the Fair Labor Standards Act (FLSA), the City and MFD have significantly improved practices and procedures pertaining to hours of work. These collaborative improvements with IAFF Local 311 assure the future success of the Creative Staffing Program.

Shift transfers, station assignments, and vacation selections were completed in November 2007. A Chief's Aide position became available due to a promotion and a new person was selected to fill the position on the A-Shift.

We continue to improve and develop new components for CityScope, our Fire and EMS reporting system. We have created an EMS Quality Assurance component that will allow Paramedic IIs and the Medical Director to review cases more efficiently. We have also worked to provide a data export to the Wisconsin WEMSI system.

MFD and City Information Technology developed a number of Department forms (building and vehicle work orders, accident forms, community education forms, etc.) in anticipation of implementing the new document archiving system Docfinity. The Docfinity system allows information from the forms to be placed directly into a database and allows the creator of the form to forward a copy via the Outlook email system.

In 2007, MFD began using the new program Fireview. Fireview is a mapping and data analysis system. This system is linked directly to both the City GIS mapping system and our reporting system. It allows the Department to complete in-depth analysis of our current and future deployment of resources.

With the loss of the Blackboard Learning Management System in January of 2007, MFD began extensive research for a new, dependable on-line learning system. We selected the Moodle Course Management System and after purchasing/personalizing the system renamed it "iTrain" (Internet Training Resource and Information Network). MFD worked with an outside consultant to purchase and put into service our own "Moodle Server". This server will provide the foundation infrastructure to the system. This system is available both internally and externally on the internet. Its open source license and modular design gives the opportunity to develop additional functions. Students are able to view training videos, various media, and documents whenever needed. In addition, it provides accurate tracking of student activity as well as testing information.

MFD is in the process of developing additional programs to allow all ALS agencies to share online training. In order to participate in this online sharing, they will equally develop training content to share with MFD and all other ALS agencies. MFD will archive all PM/AM paramedic retraining sessions on the iTrain system allowing easy access for paramedics. MFD Training Division is currently learning basic techniques in using iTrain and will deploy a number of new programs in 2008.

In 2007 MFD began working with the Green Bay Fire Department. We began sharing the Mobility and Mortality sessions presented by the Medical Director through our video conferencing system. We are exploring other opportunities to share training with other departments via video conferencing and/or the iTrain system.

Special event preparations once again took a considerable amount of time in 2007. However, MFD made significant improvements to the Operations Center located in Parkinson Hall and we now have the ability to quickly bring the Operations Center up and provide data access and information to the event Incident Commander. We also placed video feeds in all second floor offices which allows the expansion of the IMS system when necessary.

The open lines of communication between IAFF Local 311 and Management staff continue to address issues and concerns as they develop. This communication allows both management and labor to focus on the Department's future and prevent problems in our day-to-day operations.

HIRING & PROMOTIONS

Hiring and Promotions is a subdivision under Personnel and Planning Division and is responsible for conducting the hiring process as well as all internal promotional processes. In 2007 Hiring and Promotions was under the supervision of Division Chief Gregg Knudtson. The City of Madison Fire Department conducted a Fire Lieutenant process and an entry level Firefighter process in 2007. The following is the result of these and previously administered promotional processes.

New Hires:

- Dr. Darren Bean (Medical Director) 1/7/07
- William Sullivan (Fire Protection Engineer) 4/9/07
- Robert Luling (Fire Code Enforcement Officer I) 4/9/07
- Ann Blackdeer (Administrative Clerk I) 5/6/07
- Jacob Conner (Firefighter Recruit) 10/22/07
- David Doyle (Firefighter Recruit) 10/22/07
- Raena Glauvitz (Firefighter Recruit) 10/22/07
- Carri Holloway (Firefighter Recruit) 10/22/07
- Shane Lettman (Firefighter Recruit) 10/22/07
- Sean McGinnis (Firefighter recruit) 10/22/07
- Chad Powell (Firefighter recruit) 10/22/07
- Joseph Schutz (Firefighter recruit) 10/22/7
- Jered Tennant (Firefighter Recruit) 10/22/07
- Samuel Yackel (Firefighter Recruit) 10/22/07
- William Yackel (Firefighter Recruit) 10/22/07

Reclassifications:

- Community Education Specialist I Eric Dahl to Community Education Specialist II
- Training Officer I Jennifer Román to Training Officer II
- Apparatus Engineer Timothy Mrowiec to Apparatus Engineer II
- Apparatus Engineer Richard Otis to Apparatus Engineer II
- Lieutenant Thomas Adler Fire Investigator I to Fire Investigator II

Reassignments:

- Firefighter Chris Hammes to Firefighter Paramedic 1/14/07
- Firefighter Paul Poker to Firefighter Paramedic 1/14/07
- Fire Investigator James Roberts to Firefighter Station #7 B-shift 5/6/07
- Training Officer David Orange to Fire Station 11 B-shift 8/26/07
- Training Officer Lisa Van Buskirk to Fire Station #8 C-shift 8/26/07
- Lieutenant David Peterson 6B to Training Division 10/7/07
- Apparatus Engineer Thomas Reiter 6C to Training Division 10/7/07
- Apparatus Engineer Paul Ripp 3A to Training Division 10/7/07 (temporary assignment)
- Apparatus Engineer Robert Koltes 5A to Training Division 10/7/07 (temporary assignment)

Promotions:

- Apparatus Engineer Frank Jonczyk to Lieutenant 1/7/07
- Firefighter Thomas Kinney to Apparatus Engineer 1/7/07
- Apparatus Engineer Paul Komark to Lieutenant 1/7/07
- Firefighter Todd Sailor to Apparatus Engineer 1/7/07
- Firefighter Daniel Storley to Apparatus Engineer 1/7/07
- Firefighter Paramedic Ronald Blumer to Apparatus Engineer 1/28/07
- Apparatus Engineer Clayton Christenson to Lieutenant 1/28/07
- Apparatus Engineer Christopher Ernst to Lieutenant 1/28/07
- Apparatus Engineer Douglas Freese to Lieutenant 1/28/07
- Firefighter Robert Koltes to Apparatus Engineer 1/28/07
- Firefighter James Lombardi to Apparatus Engineer 1/28/07
- Firefighter Paul Mason to Apparatus Engineer 1/28/07
- Apparatus Engineer Michael Mueller to Lieutenant 1/8/07
- Apparatus Engineer James Ahn to Lieutenant 2/28/07
- Firefighter Adam Bauer to Apparatus Engineer 2/28/07
- Lieutenant Arthur Price to Division Chief 2/8/07
- Firefighter James Stelter to Apparatus Engineer 4/1/07

Retirements:

- Dr. Marvin Birnbaum, Medical Director 1/1/07
- Lieutenant Bradley Campbell 1/3/07
- Apparatus Engineer Bruce Hill 1/3/07
- Lieutenant Jerald James 1/4/07
- Lieutenant Michael Meixner 1/26/07
- Lieutenant Michael Stich 1/26/07
- Lieutenant Stephen Toltzien 1/27/07
- Division Chief Marcia Holtz 2/10/07
- Apparatus Engineer Larry Acker 4/1/07

Resignations:

- Sheena Albright (Firefighter Recruit) 5/26/07

THE FOLLOWING DETAILS THE NUMBER OF EMPLOYEES FOR EACH CLASSIFIED POSTIONS AS OF 12/31/2007

Commissioned Employees

<u>Title</u>	<u>Actual Occupied Positions</u>
Fire Chief	1
Assistant Chief	3
Division Chief	6
Captain	1
Training Officer I	1
Training Officer II	3
Training Officer III	2
Fire Inspector	1
Lieutenant	50
Apparatus Engineer	48
Firefighter/Paramedic	42
Firefighter/Paramedic II	18
Firefighter	129
Total Commissioned:	305

Civilian Employees

<u>Title</u>	<u>Actual Occupied Positions</u>
Administrative Services Manager	1
Administrative Assistant	1
Program Assistant II	1
Administrative Clerk I	3
Code Enforcement Officer I	1
Code Enforcement Officer II	0
Code Enforcement Officer III	7
Code Enforcement Officer IV	1
Community Education Specialist I	0
Community Education Specialist II	2
Community Education Specialist III	1
Fire Protection Engineer	1
Fire Marshal	1
Total Non-Commissioned	20

TRAINING & SAFETY

Training & Safety is a subdivision under the Personnel & Planning Division and is responsible for planning, coordinating, and directing all training activities for the Department. In 2007, the Training & Safety subdivision was under the supervision of Division Chief Ronald Schwenn.



The Training Division underwent more staff changes in 2007. Training Officer Scott Larson and Training Officer Lisa VanBuskirk were reassigned to the field while Lieutenant David Peterson and Training Officer Tom Reiter joined the Division. Training Officer Patrick Tomko and Training Officer Jennifer Román are also still assigned to the Training Division. We continued to provide training for Training Officers, EMT Instructors, Fire Service Instructors, computer and technology coursework, and Instructor Conferences, etc.



The Training Division had the pleasure of coordinating another recruit class in 2007: Group 27. The Division continued the Fire Department's relationship with Madison Area Technical College (MATC). Members of Recruit Group 27 were enrolled as MATC students during their recruit academy. This allowed them to attain State of Wisconsin certification for parts of their recruit academy course work which included Firefighter I, Firefighter II, Entry Level Driver Operator, Haz Mat Ops, Haz Mat Tech, and EMT.

EMT-Basic continuing education was delivered with assistance from MATC. We contracted with MATC to provide one EMT instructor. This instructor delivered continuing education content one day per week during the school year. The Training Division has also continued its partnership with the Dane County Airport Fire Department. We continue to be responsible for oversight and delivery of their EMT instruction.

The Training Division worked with the MFD Medical Director, Dr. Darren Bean, to develop and deliver content to support the roll out of a new CPR technique – Cardio Cerebral Resuscitation (CCR). The Training Division continues to provide some CPR/AED training to a few outside entities (such as Monona Terrace). We also continue to provide oversight for the City of Madison Fire Department and City of Madison Police Department CPR/AED instructors. The division provides Paramedic II training and oversight to ensure that effective, quality training has been provided to the other MFD field personnel.

The Training Division was involved in numerous projects and had many accomplishments in 2007. We delivered and/or coordinated the delivery of content in the following areas:

- 1) EMT Continuing Education
- 2) Apparatus Engineer Continuing Education, including driving simulator training
- 3) Hazardous Materials Continuing Education
- 4) Phase I (Flashover observation) training
- 5) Positive Pressure Ventilation Training
- 6) New Pierce Engine training
- 7) 2 ½" High Rise Hose Kit deployment training at Ogg Hall
- 8) Supported RIT training on firefighter self rescue/MAYDAY procedures

EMS & SUPPORT SERVICES

EMS & Support Services, under the supervision of Assistant Chief Paul T. Bloom, is responsible for overseeing the Emergency Medical Services (EMS) as well as the Health/Wellness Division. Assistant Chief Paul Bloom provides leadership on station construction, repair and renovation, vehicle purchases, maintenance of vehicles, and equipment specifications. Support Services is also responsible for the Vehicle and Equipment Committee and the Uniform/Clothing Committee.

Fire Department Vehicles

In 2007 Madison Fire Department replaced one of its reserve ladders with a new Pierce Ladder, which is now placed in Station 2. IAFF Local 311 assisted in making changes on this ladder to improve and ease operations. Pierce Manufacturing has been a great platform for MFD to work with.



MFD continues to have scheduled remounts of the City's ambulances. Remount is the replacement of the truck chassis while reusing the patient compartment known as the box or module. MFD had two Braun remounts and purchased a new ambulance in 2007. The intent of purchasing a new ambulance was for the MFD to always have ten rescues available while we have our remounts being done at North Central Ambulance. One of the unique features of a Braun Ambulance is their **Lifetime, Transferable Module Structural Warranty**. As long as the vehicle is used as an ambulance, Braun warrants the structural integrity of the module. The warranty applies to remounting as well as new purchases. This warranty is transferable if MFD should decide to sell the vehicle.



In 2007, MFD also purchased a Freightliner M2 Highroof crew cab with a custom made Bradford built utility box. The purpose of purchasing this 5th wheel trailer was to tow the current MFD HURT trailer. The Freightliner is capable of towing up to 2100 pounds.

Fleet Services, which is overseen by Bill Vandebrook, has been a tremendous resource for the City of Madison Fire Department. Fleet Services assists MFD with preventative maintenance schedules, ordering parts, repairing fire department equipment, purchasing new vehicles, and repairing fire department apparatus. MFD greatly appreciates Fleet Services' assistance and we look forward to a continuous working relationship.

Station Construction, Repair and Renovation

Station improvements continue to be a challenge due to limited funding. In 2007 MFD was able to make some improvements to the living quarters and other specific areas within the stations. One of the improvements made was the epoxy coating on the apparatus floors to make them more sustainable. MFD was also able to improve lighting to meet energy requirements of the City of Madison. We installed fire sprinkler systems and kitchen hood fire suppression systems in some of the stations. MFD was able to remodel some of the bathroom areas making them more private. Older flooring was replaced with a product that is more user friendly to maintain. Some kitchens had their cabinets updated and others had their old stoves replaced. Commercial washing machines for turnout gear were installed and interior walls of some of the stations were painted.

EMS & Support Services continued

MFD was also able to install solar water-heating systems in several fire stations to support hot water demands. This system generates 10.49 Mwh (or 358 therms) of heat per year, which represents 3.28 tons of CO₂ emissions. Solar energy heats the water, which is then pumped to the storage tanks (solar loop). There, the hot solar-loop-water goes through a heat exchanger and heats the water in the tank. This pre-heated water will flow into the gas water-heater. The \$15,997 cost for the system was partially offset by a \$3,376 grant from Focus on Energy. With projected energy savings, the system is expected to pay for itself in just over 10 years. The system was installed at a discount by *Seventh Generation*, and its energy output is being monitored with a BTU-meter provided by MGE.

"This is just the latest way that Madison city government is doing its part to reduce our contribution to global warming. In combination with similar initiatives such as our purchase of hybrid diesel-electric Metro buses, we are making a sustained commitment to protecting our air quality and reducing our dependence on non-renewable energy sources."—Mayor Dave Cieslewicz

Much time was spent in 2007 working with the City of Madison architects, City of Madison Engineering Department and Plunkett Raysich Architects on the design of Fire Station 12, which is scheduled to be built in 2008. Plunkett Raysich utilizes a process based on the Leadership in Energy and Environmental Design (LEED) Green Building Rating System™. This rating system encourages and accelerates global adoption of sustainable green building and development practices through the creation and implementation of universally understood and accepted tools and performance criteria. Their process emphasizes state of the art strategies in six categories: sustainable site development, water savings, energy efficiency, materials selection, indoor environmental quality and facility operations. By evaluating and weighing options in a variety of areas, this process promotes a total building design approach which follows the directives of the City of Madison Green Building Committee.



Equipment

Equipment purchasing is an ongoing process for MFD because of new, innovative products as well as revisions in the NFPA standards. In 2007 MFD purchased a new extrication tool from Holmatro. This tool incorporates Core Technology. CORE Technology™ is a hydraulic system that employs Coaxial Rescue Equipment hose, couplers, pumps and tools. The basis of this system is a revolutionary fluid path technology. This coaxial hose design consists of a high pressure, surrounded and protected by the low-pressure return. What makes the coaxial hydraulic hose possible is the patented CORE Technology™ coupler. These couplers have a built-in, automatic return valve that eliminates the need for a dump valve on the pump. MFD will continue to evaluate Holmatro's advantages throughout 2008.

EMS & Support Services continued

MFD did an evaluation of a new electric PPV fan for our engines and because of the results purchased the RamFan EV600. The RamFam EV600 Electric PPV Turbo Blowers have a variable speed system that allows continuous airflow adjustment from 1,000 CFM to 11,000 CFM. A major advantage of this system is that lower start-up power is required. Unlike rheostat-based units, the IntelliSense™ speed controller uses AC to DC conversion and limits the current in-rush upon start up. This technology allows speed control that runs on GFCI circuits and generators as small as 2kW. 115V version is compatible with 20 amp GFCI circuits. This fan also has a smaller footprint than the box fan that MFD was using.

MFD also evaluated new turnout gear and decided that staying with Morning Pride was the best option. We decided to purchase gear made with different materials that would give better protection and wear longer. Those materials are an outer shell of PBI/Kevlar® Matrix ripstop weave: 400Denier Kevlar, Thermal Liner Caldura SL2, and a moisture barrier of crosstech bi-component (PTFE) on 3.2 Nomex III. PBI Matrix products are an engineered blend of PBI and Kevlar® with the addition of Kevlar® cables into the weaving of the cloth. The biggest advantage of the addition of these cables is an improvement in fabric strength after ultraviolet light exposure for undyed bronze cloth. The Gemini Matrix uses a 400 denier Kevlar® cable and the SCT Matrix uses a heavier 600 denier Kevlar® cable. Both materials are visually distinguishable from traditional PBI, and to a lesser extent, from each other.

MFD began purchasing the new Motorola XTS 5000 series of radios in 2007 in hopes of moving into the digital age of radio communications. The most interoperable radio of its class, the Motorola XTS 5000 radio is an incredibly versatile Public Safety portable designed for mission-critical APCO Project 25 users. Because of the cost of equipment, this will probably be a five-year (or more) project. In addition to the cost, updating has to be done within the County of Dane. The intent is to have radios in place that are analog but can go digital at the flip of a switch without having to do any reprogramming. As part of the project, MFD radios have been reprogrammed to meet certain MFD needs and to make their use more effective and user-friendly.

As we reflect back on all that was accomplished in 2007, we look forward to exceeding our goals in 2008.

LOGISTICS & MEDICAL AFFAIRS

Logistics and Medical Affairs is a subdivision under EMS & Support Services and is responsible for overseeing the day-to-day operations of the ambulance service. In 2007, Logistics and Medical Affairs was under the supervision of Division Chief Jeffrey Duppler.

One of the changes that came with the hiring of our new Medical Director, Dr. Darren Bean, was the approval to have one set of operating protocols for all five Advance Life Support (ALS) Agencies in Dane County. The five ALS agencies include the Madison Fire Department, Fitch-Rona EMS, Middleton EMS, Sun Prairie EMS, and Town of Madison Fire Department. In the past, each ALS service has had its own set of protocols and varied from each other. This is a huge step forward in how we deliver emergency care to all patients. MFD Training Division and MFD Paramedic IIs will be assisting with the implementation of these new protocols. The goal is to have these protocols in place by the second quarter of 2008.



*Dr. Darren Bean ,
Medical Director*

Also new in 2007 were bi-monthly meetings for the MFD Paramedics which are held via video conferencing. These meetings are open discussions with on-duty Paramedics on pre-scheduled topics. However, if an interesting case has occurred, the attending Paramedics may present the case for discussion. Patients' names and personal data are omitted in accordance with HIPPA compliance.

Another improvement that started in 2006 was our incident reporting system. We have made a number of changes to this system and are now able to gather data more efficiently. One of the improvements made was adding an Omni Drive, which is a data card reader. This device allows us to take 12 lead electrocardiograms from the heart monitor used on a patient and capture that information on a data card. That card is then "read" by the Omni Drive and downloaded into our system. This enables us to include it in the patient's hospital records. These devices have been installed in all of the fire stations as well as the area hospitals. We are continually looking to make improvements to our reporting system in order to lessen the amount of time Paramedics spend completing reports and to have a greater capability of collecting pertinent data.

In 2006 the City of Madison approved the reclassification of nine firefighters to firefighter/paramedics. Because of staffing level constraints, we were only able to send six firefighters to Paramedic training in September 2007. The six firefighters are Brian Blaskowski, Terry McDaniel, Jeffrey Ezzell, Matthew Powers, Brendan Reilly and James Tokarski. They are scheduled to complete their training and National Registry testing in April 2008. They will be a welcome addition to our Paramedic Roster. Our goal is to send an additional six firefighters to Paramedic training in Fall 2008. These additional six positions will fill the new nine approved positions and also fill the attrition due to promotions and retirements within the Department.

Over the past few years we have had a steady increase in our call volume. Because of this increase in transports we have seen more equipment wear. We have experienced a number of continual mechanical failures and performance issues with our current Ferno stretchers. Due to a lack of serviceability by the vendor, the decision was made to look into an alternative unit that would fit our needs. After looking at a number of comparisons, our Department chose to replace all of our units with the Stryker Brand stretcher. The warranty and preventative maintenance agreement on these stretchers will better meet our needs.

Logistics & Medical Affairs continued

In 2007 MFD purchased a new ambulance and also had two ambulances reconditioned and remounted on new chassis. In 2007 the Madison Fire Department's 7 ALS units experienced a 9.5% increase in Emergency Medical Calls (EMS). With this amount of time on the road, the miles and maintenance issues on the ambulances add up quickly. By working with Fleet Services and cycling our units in for remounts, we kept our repair costs down and our out-of-service time to a minimum. We were also able to purchase in 2007 a twenty-foot enclosed trailer that may be towed to the scene of a Mass Casualty Incident. Funding for this unit came from the Metropolitan Medical Response System. It contains both basic life support (BLS) kits as well as advanced life support (ALS) kits. It also contains airway kits, oxygen equipment, backboards, immobilization devices, trauma supplies, infection control equipment, and other triage equipment needed to assist in the mitigation of a large incident. The Mass Casualty Response Unit (MCR) is currently housed at Fire Station 7 on the City's west side and is available to respond to major incidents.

Another new team was developed within the Madison Fire Department in 2007 called the Tactical Emergency Medical Service Team (TEMS). The TEMS team is made up of ten Firefighter/Paramedics that have received additional specialized training by the Madison Police Department. These Paramedics have the training and capability to respond with the Madison Police Department's Emergency Response Team (ERT) for high risk situations. By training directly with the ERT team members, the TEMS Paramedics have a clear understanding of the ERT's capabilities, terminology and gear, but more importantly have learned how to safely interact with patients during an incident. The two teams have fostered a relationship of trust and knowledge, with the understanding that they are there to protect and care for each other.



Each year as our number of responses increase, we look for innovative ways to keep up with the ever-increasing demand on our Department. Funding is always an obstacle. We continue to search for available grant monies in order to purchase equipment that will benefit our Department, our City, and the citizens we serve.

As 2007 comes to a close, and 2008 begins, the Madison Fire Department remains committed to the continual improvement of our services for all of our residents and visitors.

HEALTH & WELLNESS

The MFD Health and Wellness Department is a subdivision of EMS & Support Services and in 2007 was under the supervision of Division Chief Arthur Price. The Health and Wellness committee consisted of Firefighter/Paramedic Wendy Krugman, Firefighter/Paramedic Linnea Anderson, Division Chief Art Price, Division Chief Ernesto Martinez, Firefighter/Paramedic Steve Melde, Lieutenant Rich Polenska, Training Officer Patrick Tomko, Firefighter Lisa VanBuskirk, and Firefighter Michael Flores.

The committee continued working on issues pertaining to the health and well-being of all members of the Madison Fire Department using the Fire Service Joint Labor Management Wellness-Fitness Initiative (WFI) as a guide for discussion.

Medical

Medical exams for MFD commissioned personnel were completed with Dean Health at their Fish Hatchery Road facility in Fall 2007. All medical services provided by Dean Health are based on NFPA 1582 Standard on Comprehensive Occupational Medical Program for Fire Departments. Local 311 Vice President Kevin Sherry acted as liaison between MFD firefighters and Dean Health Systems and all interactions went smoothly.

Dean Health also conducted the pre-employment medical exams for the recruits of Academy Group 27. This medical exam is the most thorough process of all the medical services provided by Dean Health and is conducted over two days for each of the candidates.

Flu vaccinations were offered to both the commissioned and civilian personnel of the MFD again this year. Approximately 160 MFD personnel obtained a flu shot in 2007.

Fitness

The Fitness Committee continued its Recruit Academy Fitness Program with Group 27. During the first week of the academy, the Training Officers conducted a fitness assessment (pushups, sit-ups, stretch & reach, and lap running). The Training Officers then used this information to develop a program specifically tailored to the strengths and weaknesses of the recruits as a group.



Members of the Health & Wellness Committee are studying the benefits of the program, not only in terms of the fitness level of the recruits, but also in terms of stress relief, injury prevention, flexibility, and team building.



In 2007 we were able to purchase a replacement treadmill for Station #1 and spinning bikes for Stations #4 and #7. We were also able to purchase additional weights, dumbbells, bars and BOSU® balance trainers for all fire stations.

Health & Wellness continued

Peer Fitness Trainers

The latest Labor Agreement created the position of Peer Fitness Trainer. The peer fitness trainers will assist the fitness efforts of their colleagues, develop personalized fitness programs, offer workout advice and answer fitness-related questions.

The Labor Agreement calls for ten such positions that will receive compensation. The Health & Wellness Committee will develop proposals for a job description and implementation of the program in 2008. The following selected personnel are now certified peer fitness trainers; Firefighter/Paramedic Linnea Anderson, Firefighter Laura Graf, Firefighter/Paramedic Steve Tennant, Firefighter/Paramedic Kara Nelson, Firefighter Robert Verhelst, Lieutenant Laura Laurenzi, Firefighter/Paramedic Wendy Krugman, Firefighter/Paramedic Terence Ritter, Firefighter Steven Redmond, and Firefighter/Paramedic John Roland. We also have some certified alternates who volunteer their knowledge and skills. Firefighter Chick Lillis, Firefighter Lisa Van Buskirk, Firefighter Karla Kalepp, Apparatus Engineer Kimberly Mathews and Training Officer Jennifer Román will be leading the fitness effort with the recruit classes.

Behavioral/Nutrition

Critical Incident Stress Management (CISM) - The Health & Wellness Committee conducted preliminary research on models of Critical Incident Stress Management. A goal for the committee in 2008 is to identify or develop a program to update the CISM program for the MFD.

The Health & Wellness Committee identified and purchased cookbooks for each of the stations. The cookbooks were published by the American Heart Association and provide recipes for heart-healthy eating.



ARSON INVESTIGATION

The City of Madison Fire Department has three full-time fire/arson investigators who respond to investigate the origin, cause, and circumstances surrounding fires & explosions in the City of Madison, mandated by WI S.S. 165.55 (1) and Madison City Ordinance 6.16. Each member of the team is a highly-skilled, aggressive investigator who actively pursues people who engage in the act of arson. The investigators spend numerous hours identifying products believed to be the cause of fires.

In 2007 the Fire/Arson Investigation Unit was staffed by Captain Bradley Olson, IAAI-CFI, Unit Supervisor, Lieutenant Tom Adler, and Investigator Pete Trilling. Each investigator rotates on-call duty once every three weeks and is responsible to respond to fires and explosions which require a more in-depth investigation as determined by the Incident Commander.

The MFD Fire/Arson Investigation Unit maintains a close working relationship with the City of Madison Police Department, the Dane County District Attorney's Office, WI State Fire Marshal's Office, Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF), and other local law enforcement and fire departments within Dane County to combat the efforts of arsonists.

MFD Investigators conducted a total of 139 investigations in 2007, of which 42 were identified as intentionally set fires. In conjunction with these fires, 17 people were arrested and charged with an arson-related crime through the Dane County District Attorney's Office.



123 N Bedford St



1110 E Gorham St

The most expensive and devastating arson fire to occur in the City of Madison's history was the St. Raphael's Cathedral Church fire which occurred on March 14, 2005. This case was finally closed in 2007 with the successful prosecution of William Connell. Mr. Connell received a total of 15 years in prison with an additional 15 years of extended supervision. This case required the use of many agencies to complete this investigation, including Madison Police, Dane Co. Sheriff's Office, WI Division of Criminal Justice - State Fire Marshal's Office, Bureau of Alcohol Tobacco Firearms & Explosives, Dane County District Attorney's Office, and other technical experts over the past two years.

In 2007, five people were fatally injured in residential structure fires. MFD Investigators identified some common dominators: no working smoke detectors, discarded smoking materials, use of home oxygen, and the consumption of alcohol.

Arson Investigation continued

In 2007, MFD investigated several large dollar loss fires which are listed below.

Date	Address	Dollar Loss	Cause
01/04/07	1401 University Ave	\$150,000	Arson with arrest
04/20/07	1741 Commercial Ave	\$3,000,000	Undetermined
04/28/07	1110 E. Gorham St	\$150,000	Undetermined
05/06/07	301 N. Hamilton St	\$500,000	Charcoal Grill
06/15/07	4806 E. Broadway	\$200,000	Accidental
07/14/07	1218 McKenna Blvd	\$3,500,000	Discarded Smoking Materials
08/10/07	13 Burning Wood Ct	\$150,000	Undetermined
11/10/07	505 N Carroll St	\$700,000	Active
12/10/07	113 N Whitney Wy	\$350,000	Arson with arrest
12/13/07	5709 Milwaukee St	\$300,000	Accidental
12/26/07	4717 Hammersley Rd	\$750,000	Active

The Madison Fire Department Fire/Arson Investigation Unit Investigators are committed to aggressively investigate fires with the objective to provide a more fire-safe community.



1218 McKenna Blvd



113 N Whitney Way



1741 Commercial Ave

FIRE PREVENTION DIVISION

As a result of a long-standing fire prevention program, the City of Madison has enjoyed a safe community with relatively low numbers of fire fatalities for a city of its size. In recent years, as the City continues to grow in population and diversity, the challenge has become to reach out to specific high-risk populations, meet the expectations of the development community, and serve the community as problem solvers. In 2007, the City of Madison Division of Fire Prevention did this on many levels.

The Fire Prevention Division supports Madison Measures in many ways. With comprehensive code enforcement, inspection, plan review and education programs, the Department utilizes many tools to confine fire to the room of origin. Often fire sprinkler systems confine and stop fires. Detection systems alert occupants and may automatically initiate a fire response to get the firefighters on location before flashover or extension into other building areas. Occupants who understand fire-safe behaviors and take the correct steps when they detect a fire also help the Department meet this measure. Response times to fire and emergency medical calls may be improved with the completion of traffic signal pre-emption at 68 controlled intersections throughout the City of Madison. The division facilitated the pre-emption project.

FIRE CODE ENFORCEMENT 2007

The Code Enforcement Unit continues to support the Neighborhood Resource Teams with 11 staff members participating on the 5 teams in 2007. Leslie Giguere and Jerry McMullen were team leaders for the East and Central Teams, respectively.

Fire Code Enforcement performed 228 tavern occupancy or capacity inspections, which included inspections of outdoor beer gardens. In performing capacity checks, Code Enforcement staff addressed overcrowding, and ensured exits were clear, unobstructed, and accessible.



In 2007 the Common Council passed a major revision to MGO 34. Many of the changes dealt with fire protection systems and special hazards. The revisions simplified some requirements and clarified others to make the fire protection submittal process less complicated. In addition, the new language authorizes the Fire Chief to abate imminent hazards and bill the owner for the mitigation services.

An additional Fire Code Enforcement Officer position was staffed, the first new position in over 10 years. Robert Luling was hired to fill the new position. The addition of this new position allows Fire Code Enforcement staff to cover the growing city more effectively. With arrival of the new Inspector, inspection territories were re-aligned to improve efficiencies.

Madison Fire Department performed over 32,000 Fire Inspection Activities in 2007. The following chart is the amount of revenue generated by Fire Prevention to the City in 2007.

2 % Dues	\$ 630,432.66
Plan Review	\$ 315,956.00
Tank Contract	\$ 45,344.50
Licenses (Permits)	\$ 133,501.00
Re-Inspection Fees	\$ 11,950.00
Total	\$1,137,184.16

Fire Prevention continued

COMMUNITY EDUCATION UNIT

The Community Education Unit continues to develop and refine existing curriculum to reach audiences who are less likely to hear and understand fire safety messages. Members of this unit continue to partner with like-minded community organizations, building on those connections to leverage community support for safety initiatives.

"The Madison Business & Education Partnership, Inc., has come to rely on the Madison Fire Department to showcase careers in the public sector and build community awareness through the School Makes A Difference program. Annually, over 1,700 eighth grade students in Madison and Edgewood schools hear Fire Department speakers."—Gabrielle Banick, Ph.D., MMSD Coordinator, Career & Technical Education/Executive Director, Business & Education Partnership, Inc.



The collaboration with Madison School and Community Recreation (MSCR), Safe Community Coalition, and a coalition of other organizations dedicated to health and safety continues to result in the highly successful Safety Town program. Since the City of Madison Fire Department initiated the program in 2004, enrollment has grown each year.

Safety Saturday moved to another location on the Capitol Square due to construction this year, but still attracted thousands to its interactive exhibits highlighting messages of safety and prevention. This year, the Department arranged to bring the Dane County Chief's Fire Safety House to illustrate emergency preparedness concepts.



In 2007, Community Education Officers wrote grants and scholarship letters to attend national conferences in Boston and Washington D.C., bringing home new curriculum designed to teach fire safety to audiences with special needs, and fire and falls prevention for older adults.

The new curriculum brought new audiences. The Department was approached by a human services agency to train their staff on fire safety for adults with developmental disabilities. New curriculum for emergency preparedness was presented at a citywide retreat for representatives of neighborhood associations, along with partners in People Responding to Emergencies Program (PREP), UW-EMS, and American Red Cross – Badger Chapter. There, listeners learned about emergency preparedness steps toward healthier and more resilient neighborhoods. The day resulted in additional requests for outreach to individual neighborhood associations.

South Madison Rotary also awarded a grant to the Unit in the amount of \$1,500 to purchase smoke alarms for the hearing-impaired. To date 6 alarms have been donated to City residents.

The Department remains a leader in car seat safety, hosting two car seat checks each month at City fire stations, and maintaining Child Passenger Safety Certification for four of the Unit employees to conduct the checks. Approximately 25 families are served at each check.

Fire Prevention continued



In October, 7,000 students from grades K-3 tried out the popular fire safety obstacle course, with enthusiastic responses from both students and their teachers:

"I've attended your education programs for years with my students and I'm always impressed by how professional and well prepared you are. The program gets a little better every year."—Sara Golbach, Thoreau Teacher

"Thank you for coming to our school. My favorite part was rolling off the cot, opening the door & crawling out the window. Now I know I'm under 80 pounds and 57 inches and I need a booster seat. Now that I'm going to get a booster seat I feel a lot safer. I learned many things about safety and fires."—Serena, Thoreau student

Federal grant money was made available to the Community Education Unit during the 4th quarter of 2007. After some research, the Unit purchased a 911 simulator, and a fire extinguisher simulator for teaching and training purposes.

The 911 simulator will be used predominantly in the schools and on loan to the Communications Center staff for their presentations. The fire extinguisher simulator will be used in businesses and other organizations as a training aid.

2007 Results by the Numbers:

- Increased use of local media outlets for public safety messages.
- 681 car seats inspected at City of Madison fire stations.
- Presentations reaching 11,700 children and 4,158 adults.
- 344 students enrolled in Safety Town.
- More than 1,100 visitors to City of Madison fire stations
- Outreach to community at large through free public events:
 - Safety Saturday
 - Safety Day at the Children's Museum
 - BGCDC Backpack Giveaway

In October 2007, the Community Education Division was honored to receive the 2007 Fire Safety Education Award from the Wisconsin Alliance for Fire Safety. The Department received a plaque at an awards luncheon in Milwaukee.

FIRE PROTECTION ENGINEERING UNIT

Bill Sullivan was hired as the new Fire Protection engineer in April. Bill was formerly a fire protection contractor and design consultant. His past experiences provide the City of Madison Fire Department with an understanding of the design professional's perspective, which fits in with the Department's commitment to customer service and will improve the communication and ability to meet the goals of the project and the needs of the Department. Bill has quickly established a positive relationship with the development community.

Fire Prevention continued

The Fire Protection Engineering Unit was privileged to have Oklahoma State University student Jon Lund as a summer intern. Jon developed and presented a well-attended seminar on the plan submittal process for MFD. Since the seminar, there were noticeable improvements, with average administrative holds dropped from 6.3 to 5.6 per month. Our most frequent submitter had 13 administrative holds prior to July's seminar with only 3 plans after attending the seminar. Jon also developed and published the first two editions of a quarterly newsletter aimed to educate designers on topics to address during design instead of waiting for MFD Inspectors to find the problems after installation. The newsletter has been well received by the design community. Several designers have suggested topics to be covered in future newsletters.

The Unit made some changes in how we support the development community. Participation in the Development Assistance Team meetings has improved communications and reduced problems. Our service philosophy of working as problem solvers has proven to benefit developers by eliminating delays and removing barriers.

We would like to thank the University of Wisconsin, Monona Plumbing and Fire Protection, and Boldt Construction for allowing and assisting our Engineering Unit, Training Division, and Engine 4 to conduct flow testing at the new Microbial building. This allowed us to: 1) evaluate the operations of pressure reducing valves and 2) quantify the additional flows available when using 150 feet of 2 ½" hose in lieu of the 50 feet of 2 ½" hose and 100 feet of 1 ¾" the Department currently uses for standpipe operations.

Engineering continued to see an increase in plan review and plan review revenue in 2007.

Fire Protection System Plan Review	767
New Constructions Inspections	2459
Project Development Reviews	245
Net Revenue	\$ 315,956.00

EMERGENCY MANAGEMENT

The development of the city's emergency management plan continues. Plans for Continuity of Operations and Pandemic were completed. The current focus is a general framework for emergency operations to include mitigation, planning, response and recovery. The annual practice of setting up, staffing, and supporting operations for a planned event such as Halloween operations is a good exercise for support agencies and staff. In cooperation with other city agencies the following tasks were completed:

- ✓ Emergency Operation Center – The hardware required to set-up and operate an EOC was acquired and put in place. An activation plan was developed. The EOC can be operational within 45 minutes of arrival by staff.
- ✓ Continuity Of Operation Plan developed
- ✓ Pandemic Plan developed
- ✓ Perimeter access and security system drafted
- ✓ EOC credentials implemented

FINANCE

2007 OPERATING BUDGET

The City Comptroller's Office has completed closing their books for 2007. This report includes expenditures and encumbrances as of May 5, 2008.

The Department received eight employee retirements and one resignation in 2007. Vacancies can impact budget salary savings and overtime expenses.

Following is a summary chart of the current status of the 2007 Operating budget:

	Adopted Budget	TOTAL Expenses with Encumbrances	Balance
Permanent & Premium Salaries	\$ 21,300,284	\$21,041,219	\$ 259,065
Hourly Wages	0	484	(484)
Overtime Salaries	1,460,004	1,522,287	(62,283)
Benefits	9,430,959	9,519,233	(88,274)
Purchased Services	1,353,781	1,199,144	154,637
Materials & Supplies	906,692	897,306	9,386
Inter-Agency Charges	2,639,112	2,788,235	(149,123)
Capital Assets	5,000	5,847	(847)
Revenue	(1,291,167)	(1,233,995)	(57,172)
Net Budget	\$35,804,665	\$35,739,760	\$ 64,905

2007 CAPITAL BUDGET

The Department has a Capital Budget that includes large projects for which funds must be borrowed. Borrowed funding was approved for a total of \$1,297,686 covering the following projects:

- 1) New Far West Fire Station (\$319,759) - Funding for design/engineering services, with plans to construct and furnish the station in 2008.
- 2) Increase Ambulance Fleet (\$158,566) - Funding for a new ambulance. This was in addition to the Fleet Services contribution of \$99,700.
- 3) General Building Improvements (\$250,000) - General Building projects for ongoing maintenance of buildings.
- 4) Fire Equipment (\$108,900) - Funding to replace fire equipment such as hoses, self-contained breathing apparatus, extrication tools and other equipment.
- 5) Communications Equipment (\$98,000) - Replacement of portable radios, purchase of radios for new personnel, P25 radio upgrade and completion of the station alerting backup system.
- 6) New Far East Fire Station (\$300,000) - Reauthorization of funding for the purchase of land.
- 7) FEMA Grant- (\$312,306) - The grant amount was \$249,845 and the approved borrowed amount was \$62,461. Approved items were sprinkler systems for three fire stations, six thermal imaging cameras, and fire prevention education items.

METROPOLITAN MEDICAL RESPONSE SYSTEM (MMRS)

The City received a Homeland Security Grant, administered by the Wisconsin Office of Justice Assistance for \$232,330. This grant is the preparation for response to Weapons of Mass Destruction (WMD) and mass casualty incidents. This grant did not require any matching funds. The funding is for the entire Metropolitan area. All purchasing projects are approved by a Steering Committee of public officials and medical representatives in our community.

The grant covers these areas:

- Continued work from the public health and medical community to develop plans and procedures for prophylaxis administration.
- Work with health care providers on a system to provide rapid triage, treatment, transport, and tracking of patients.
- Pharmaceutical supply management with emphasis on rotation and shelf-life extension.
- Training with NIMS and NIMS compliance as a focus area that includes health care providers such as nursing homes.
- Exercises to be conducted with public/private cooperation. The intent is coordination of exercises with local and State agencies and to combine funding resources.
- Improve patient tracking capabilities established through HRSA funding to effectively track patients from the scene of a mass casualty incident through discharge from a healthcare facility.
- Integrate and maximize communications capability within the medical community.
- Expand regional collaboration to incorporate 11 additional counties.
- Work on the development of plans to integrate the institutional long-term care industry in Dane County with the State Evacuation policy.
- Incorporate the Mental Health Team into the Medical Reserve corps.

FIRE TURNS GREEN

The Fire Department has been actively involved in its own department green initiatives for several years. We are now working with City-wide teams on these efforts.

- 1) Madison Fire Department participated in the review and selection team for a vendor of green building cleaning and paper products.
- 2) Madison Fire Department purchases 100% recycled white copy/print paper.
- 3) Fire Administration now has three multi-function machines that copy, fax, and scan. This change reduced the number of independent printers and scanners that could end up in the landfill.
- 4) Station furnishings and equipment have been purchased for several years that have a longer life or allow for refurbishment. Examples are:
 - Chairs with heavy-duty frames that allow for cushion and glide replacement. This eliminates replacing an entire chair.
 - Commercial recliners that have a longer life cycle than residential recliners.
 - Office furniture that meets green guidelines.
 - Restaurant cookware and dinnerware for the stations which has a longer life cycle.

ADMINISTRATIVE SUPPORT

2007 brought much-needed additions and improvements to the Reception area of Fire Administration. In late 2006, Mayor Dave Cieslewicz authorized the hiring of an additional Administrative Clerk for Fire Administration, and Ann Blackdeer joined the MFD team in May 2007. With this third person in place, the unit then underwent restructuring to divide the workload more evenly and efficiently. First off, the positions were changed to fall under the supervision of Program Assistant Velma Avalos.

Next came a thorough review of duties and responsibilities. Although all three Admin Clerks share responsibility for general reception duties such as phone answering, mail sorting, greeting and helping customers at the counter, and assisting MFD personnel, some of the more specialized duties were assigned to a particular clerk, and each clerk provides clerical support to specific members of the Management team.

In addition to supervising the Administrative Clerks, Velma Avalos provides administrative support to Fire Chief Debra Amesqua. She is also assigned to Personnel, Planning & Training as well as Hiring & Promotions. She works with Assistant James Keiken, Division Chief Gregg Knudtson, and Division Chief Ronald Schwenn. Her duties include purchasing and accounting for these units, assisting in the hiring process, review and monitoring of training budget expenditures as well as processing training requests and making travel arrangements.

Denise DeSerio is assigned to EMS and Support Services, Logistics and Medical Affairs, and Health and Wellness/Technology. She works with Assistant Chief Paul Bloom, Division Chief Jeff Duppler, Division Chief Art Price, and Medical Director Dr. Darren Bean. Her duties include purchasing and accounting for the EMS division and Health and Wellness unit, processing requests for EMS reports, as well as credit card reconciliation for the Department.

Heidi Dewsnap is assigned to Operations and Administration, Field Services, Special Teams, Grants, and Investigation. She works with Assistant Chief Michael Dirienzo, Division Chief Ernesto Martinez, Division Chief Michael Popovich, and Captain Bradley Olson in Investigation. Her duties include purchasing and accounting for these units, entering fire personnel injury data in CityScape, compiling Cost Recovery reports for Hazmat, processing Worker's Comp claims and firefighter clothing requests, as well as providing backup for payroll and plan review.

Ann Blackdeer is assigned to Fire Prevention and Emergency Management. She works with Fire Marshal Ed Ruckriegel, Fire Protection Engineer Bill Sullivan, and the Fire Inspectors and Community Education Officers. Her duties include processing incoming & outgoing (approved) plan submittals for the Fire Protection Plan Review program, purchasing and accounting for the Prevention Division as a whole, as well as providing clerical support for the City's Emergency Management Team.

These changes have worked well for all involved and have helped the Admin Support Staff keep pace with an ever-growing workload.



From left to right, Heidi Dewsnap, Velma Avalos, Denise DeSerio and Ann Blackdeer

2007 RETIREES



*Bradley J. Campbell, Lieutenant
Start Date: 8/5/1974
Retire Date: 1/3/2007*



*Bruce A. Hill, Apparatus Engineer
Start Date: 3/1/1982
Retire Date: 1/3/2007*



*Jerold James, Lieutenant
Start Date: 2/4/1980
Retire Date: 1/4/2007*



*Michael Meixner, Lieutenant
Start Date: 3/25/1985
Retire Date: 1/25/2007*



*Michael K. Stich, Lieutenant
Start Date: 11/29/1987
Retire Date: 1/25/2007*



*Stephen P. Toltzien, Lieutenant
Start Date: 8/5/1974
Retire Date: 1/27/2007*



*Marcia S. Holtz, Division Chief
Start Date: 10/13/1978
Retire Date: 2/10/2007*



*Larry Acker, Apparatus Engineer
Start Date: 8/5/1974
Retire Date: 4/1/2007*

IN MEMORIAM

EDWARD J BOKINA

APPOINTED 9/16/1941
RETIRED 7/6/1969
DIED 12/19/2007

GARY BORCHARDT

APPOINTED 3/19/1967
RETIRED 12/9/1996
DIED 7/23/2007

RAYMOND H DISCH

APPOINTED 8/1/1957
RETIRED 1/30/1993
DIED 3/11/2007

JAMES HEISIG

APPOINTED 2/4/1980
RETIRED 2/29/1992
DIED 10/20/2007

DONALD A HUGGINS

APPOINTED 2/1/1951
RETIRED 3/28/1981
DIED 2/3/2007

HAROLD PALTZ

APPOINTED 2/1/1947
RETIRED 1/16/1983
DIED 3/31/2007

DARREN B BEAN

APPOINTED 1/01/2007
RETIRED
DIED 5/10/2008

Remembering Dr. Darren Bean

City of Madison Fire Department Medical Director – January 1, 2007 – May 10, 2008

It's difficult to underestimate the impact Darren had on all of us during his all-too-brief tenure with the Department.

I'll never forget him coming into my office and telling me that "within six months" we would be able to get agreement on county-wide shared ALS protocols, and county-wide agreement to adopt CCR.

"We can do this," he said.

I didn't have the heart to tell him that in government... setting up meetings can take six months...never mind getting agreement.

Six months later...we had agreement. It wasn't a simple change... it was a true paradigm shift. It wouldn't have happened without Darren's vision and leadership. And without it, we wouldn't be saving as many lives as we are now.

Darren moved things forward like all great teachers do...not simply by the power of his words, but by listening and understanding. He won your heart. You followed him not because he told you where to go... but because he enlisted you to help him find the way.

Now, we must find our way without him. It is left to us, the living, to give voice to who he was...what he did...why he mattered so much.

It is also up to us to continue his work so that all the good he did becomes the basis for better things to come.

That is, after all, what a legacy means: it is created by what we do while we live... rather than being a consequence of our passing. The German philosopher Goethe said it nicely: "Choose well. Your choice is brief, and yet endless."

Darren chose well.

He had a keen sense that to make a difference in people's lives we must cultivate a sense of shared community. He looked to the future while respecting the past. He tackled complex problems with an amazing combination of thought and action.

He was, as one colleague said, "a bright star" in emergency medicine because he knew and understood the field inside and out. But on top of that, he was able to do what many wonderful and knowledgeable people just can't seem to ever do: ***Darren made things happen.***

Even as we mourn Darren's death, we realize he taught us how to live

...with an open-ness to all the world offers
...with a deep and abiding love for our families
and our children
...with tenderness and devotion to those we
know as soulmates
...with joy for the wonder of life itself
...with respect for those we work with
...with understanding for the shared humanity
that unites us all
...and with a clear vision of how we can use our
talents to ease suffering, end pain and make
life better for our fellow human beings.

We have much yet to learn from Darren's life. He touched and changed everyone in the Madison Fire Department who knew him. His pure and playful delight at being a part of the Fire Department family was plain to see every time he worked with us. I'm told he thought of us as a special place, where he could dream and test and explore. Of course, he did more than that.

His discoveries and his passion for finding better ways to do difficult things will continue to save people... people he will never meet. And as much as we wish he were still working alongside us, we will have to content ourselves with carrying on his astonishing body of work and remembering him whenever a heart that had stopped beating starts anew – not just because of ***what*** Darren Bean taught us, but because of ***how*** he taught us.

It is that special sense of energy, wonder and joy that we now miss so greatly and are challenged to rediscover in the days ahead.



NOTES

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