

THE BUGLE

Fall 2022

SAVING HISTORY, SAVING LIVES!

Volume 28, Number 4

HAVE CHILD'S BIRTHDAY PARTY AT THE MUSEUM

By Joan Oliver

November 12th was an exciting day for the Museum, Si had just turned 5 years old and his parents had arranged to have his birthday party here at the Museum. He was the first one! The party started at 10am and Si came all decked out in turnout gear to celebrate his big day. The room was ablaze in firefighter themed decorations with a digital banner extending colorful birthday wishes.

Twenty of his school mates were invited to take part in this special occasion and each was given a special fire helmet upon arrival. They were invited to play in the Kids Corner where they could dress up in turn out gear, sit in a Little Tikes fire truck, play with toys or help put out the flames in our miniature burning house.

Once everyone had arrived, they were given 20 minutes of specialized fire safety training. Some were able to try out our safety bedroom that fills with smoke. Here they could practice crawling to their escape through the bedroom window, climb



Si Posing with Parents before the Party

out onto the roof and wait safely for rescue. Others got to try out our Bullex digital fire extinguisher training system.



Birthday Guest Enjoying the Celebration

Afterwards, it was time for pizza and cupcakes in the party area. Then everyone joined in singing him "Happy Birthday" and he was allowed to open presents. When he was finished the children were able to play for a little while longer until the party was over and everyone left to go home. They all departed happy and a little exhausted after having a great time celebrating Si's birthday at the Western Reserve Fire Museum. Continued on Page 2 (Please see BIRTHDAY PARTY)

PRESIDENT'S LOG

By Jim Bell

As this issue of *The Bugle* goes to press we have learned of the tragic death of Firefighter John Tetrick of the Cleveland Division of Fire, Engine 22. Firefighter Tetrick was killed in the performance of his duties while operating at a MVA in the eastbound lanes of Interstate 90. I know I speak for all of the members of the Western Reserve Fire Museum when I say we offer our deepest sympathy and condolences to the family of Mr. Tetrick and all of the members of the Cleveland Division of Fire.

The museum needs help from the membership in finding a Director of Public Education. In general, the Director is responsible for overseeing all aspects of our public education program including teaching fire safety education, reaching out to the public to entice visitation, interacting with the local Boy Scouts council, maintaining fire safety education supplies, appearing at public events, and other duties as may be assigned. Preferably, the Director will have experience as a firefighter. This is a paid, part-time position of 20 hours per week. Please have any interested candidates contact the museum at, info@wrfmc.com or 216-664-6312.

As reported before, the museum is continuing to complete the renovation of the event space on the second floor. We have received information from the CFD Fire Inspector we need to construct a fire wall in the Fire Alarm Office to guarantee safe passage for our Continued on Page 2 (Please see LOG)

INS	IDF	THI	SIS	SUE

This newsletter is dedicated to informing the members and friends of the Western Reserve Fire Museum and Education Center of its activities and events.

Published by The Western Reserve Fire Museum and Education Center, 310 Carnegie Ave., Cleveland, Ohio 44115-2816

> Phone: (216) 664-6312 www.wrfmc.com

LOG

(Continued from Page 1)

visitors down the northwest stairwell. Additionally, we need to upgrade our fire/security system and install a professional grade audio/visual system. All of these improvements are necessary for the future of the museum. I hope our generous members will renew their membership and also make a donation to our capital campaign. I appreciate your support. The financial foundation from our members is what keeps us moving forward.

The next Board of Director's meeting will be in February 2023. This meeting will include the election of members to the Executive Committee. If anyone has an interest in joining either body, please contact me at info@wrfmc.com or 440-220-0412.

I wish everyone Happy Holidays and Best Wishes for a Great New Year!

Sincerely, Iim Bell

BIRTHDAY PARTY

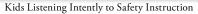
(Continued from Page 1)

The Museum is now officially open for children birthday parties. What better way to celebrate your child's birthday than to have a party at one of Cleveland's newest attractions. Parties can be scheduled for either Saturday morning at 11:00 AM or afternoon at 2:00 PM. Contact the Museum at 216-664-6312, or email at oliverj@wrfmc.com for reserving a date and pricing details. Birthday parties will be comprised of two parts. The first hour will include fire safety training and play in our Education Wing along with a tour of the Museum. The second hour will be the birthday party held in the Museum's classroom/ all-purpose room adjacent to the Education area.



Child Working on Dousing the Fire







Time for the Birthday Boy to Blow Out the Candles



Celebration Time! Pizza & Cupcakes

MUSEUM NEEDS YEAR END HELP

By John Zangerle

Early this year the Museum reached out to its members to ask for financial aid to complete the dormitory project. That appeal was very successful and allowed us to complete work on the dormitory, bathrooms and storage areas on the east half of the second floor. We are now in the final stages of getting our occupancy permit. While the physical work on the room is complete, we know there is much more that needs to be done to make it the most attractive space we can for rental income. Most importantly we need to put audiovisual and speaker systems in the second floor.

We just recently purchased round tables and additional chairs and we are working on other details that go into making this a desirable rental space. Because we will have more of the public coming through the building we need to provide an enhanced security system. We have reached out for quotes from five different contractors. We have also learned that we will need to do some additional construction in the alarm office before final approvals.

We know that many of you have already contributed this year to support the second floor project, and we are grateful to you for all the work it allowed us to accomplish. For those of you who can make an additional contribution, or who have not yet made a 2022 donation, we are asking you to contribute whatever you are able to our year-end capital campaign so we can finally offer a premier downtown meeting venue that will provide a future income stream to the Museum. Contributions may be made by check or online. Please also note Elaine Straub's article on page 4 of *The Bugle* for the many ways you can support the Museum.

CLEVELAND APPOINTS NEW FIRE CHIEF

The Museum would like to congratulate Anthony P. Luke on his recent appointment to Chief of the Cleveland Division of Fire.

Chief Luke is married with two adult children and a 1984 graduate of Bedford High School. He earned an Associate's Degree from Cuyahoga Community College, a Certificate from the Public Management Academy at Cleveland State University, and studied at the National Fire Academy in the Executive Fire Officer Program.

On February 14, 1994, Chief Luke was appointed to the Cleveland Division of Fire. He began his career as a firefighter on Engine 7 and worked in various suppression and staff assignments. He was promoted to the rank of Lieutenant in 1997, to Captain in 2007, Battalion Chief in 2012, and Assistant Chief in 2017.

As Assistant Chief, Luke worked as Chief of Staff, where he implemented numerous improvements in information technology, dispatching, and communications. His last assignment was Executive Officer, the second in command in the Division of Fire, where he handled discipline, personnel, payroll, and assisted Interim Fire Chief Eric Burchak.

We look forward to working with Chief Luke in our shared goal of fire safety and prevention as well as preserving the history of the Cleveland Fire Department.



Chief Anthony P. Luke

MUSEUM HOSTS LOCAL 93 TAILGATE PARTY

JOHN ZANGERLE

We all know the Fire Museum's location makes it very convenient for Guardians games and Tom Corrigan III made the arrangements for a Local 93 tailgate party before the October 3, Guardians-Kansas City Royals game. The event was very successful with many families attending. Local 93's Joe Konys was the master chef who cooked burgers and dogs in the alley behind the Museum while the 100+ participants could socialize outside or tour the Museum. The event was blessed with cool but sunny weather. Museum volunteers showed up to provide tours and help with some children's activities. Although the Guardians were not able to bring home a win, a good time was had by all



Local 93 Celebrate Before Game

SAFETY TIPS TO ENJOY A SAFE HOLIDAY SEASON

By Joan Oliver

The holidays are upon us. It's a joyous time to spend with family and friends. The spirit of giving is in the air, but it can also present a unique set of seasonal safety hazards. Here are some tips to keep your family safe this holiday season.

Turkey Fryers

Be alert to the dangers if you're thinking of frying a turkey for the holidays. According to the Consumer Product Safety Commission there have been hundreds of turkey-fryer related fires burns and injuries as well as millions of dollars in property damage from these incidents during this time of year. The National Safety Council discourages the use of turkey fryers at home or urges people to use an oil-less fryer.

Give Safely

Toys should be fun and bring joy, not cause injuries. Thousands of children are seriously injured in toy-related incidents every year. Avoid safety hazards by following these tips:



- Toys are age-rated for safety, not for their intellect and physical ability. Be sure to choose toys in the correct age range.
- Choose toys for children under 3 that do not have small parts which could cause choking hazards.
- For children under 10, avoid toys that must be plugged into an electrical outlet.
- Be cautious about toys that have button batteries or magnets as they can be harmful or fatal if swallowed.
- When giving scooters and other riding toys, think about giving the appropriate safety gear too. It should be worn at all times and sized to fit.

OPEN HOUSE CELEBRATES 100TH ANNIVERSARY OF FIRE PREVENTION WEEK

By Joan Oliver

This year the Museum held its Fire Prevention Week Open House on Saturday, October 15th. Unfortunately, the weather was a little on the cool side so we had to move everything inside, but that didn't stop people from coming down to take part in the festivities which began at 10:00am and ran through 2:00pm.

This year marked the 100th anniversary of Fire Prevention Week and the campaign was "Fire won't wait. Plan your Escape". It focused on educating everyone about simple but important actions they can take to keep themselves and those around them safe from home fires.



Bob Shimits Greets Visitors

Since homes burn faster than ever today, a person may have as little as two minutes or less to safely escape a home fire from the time the smoke alarm sounds. Their ability to get out of a house during a fire depends greatly on early warning signals from smoke alarms and advanced planning.

Visitors had fun touring the Museum,

partaking of delicious treats (hot dogs, popcorn, ice cream and & beverages), receiving education on fire safety, and the little ones had fun dressing up and playing in the children's area. The Museum would like to thank all the volunteers that came down to work the event. Bob



Docent Larry Gordon Conducts Tour

Shimits for bringing his Model T; Larry Gordon, Stan Socha, Frank Novak & Danny Hayden for serving as docents and giving tours; Debbie Hubbard and Pat Zangerle for working the refreshment table and Jim Bell for working the education area and presenting fire safety lectures. We would also like to thank all those who came down and participated to make the event a success.



Child Sees How Fast Model T Can Go

PLEASE CONSIDER DONATING TO THE FIRE MUSEUM

ELAINE STRAUB

As you plan year-end charitable giving or contemplate estate planning, please remember the Fire Museum. Consider honoring deceased or living family members for special occasions. Commemorative naming opportunities are available, as well as supporting individual programs or activities. Some ways to give.

- · Cash, checks or credit cards are the simplest ways. Donations can be made through donor advised funds or family foundations.
- Stocks, bonds or mutual funds. Donate appreciated publicly traded securities owned for at least one year. Capital gains would not be due on the appreciated value for securities directly donated.
- IRA's. For individuals over age 70-1/2, a tax-free direct transfer from an IRA up to \$100,000 each calendar year is permitted.
- Life Insurance. Life insurance naming the Fire Museum as the beneficiary results in a substantial gift with a relatively modest outlay.
- Bequest. Naming the Fire Museum in a Will enables a donor to leave a lasting legacy.
- Corporate Matching Gift Programs. Some employers offer charitable matching gift programs which can increase the size of a gift.
- Purchase a Paver. The Fire Museum's main entrance showcases engraved paving stones. The pavers are moving tributes to family members or fallen fire fighters and are quite beautiful.
- · Volunteer your Time. There are many opportunities based on your time commitment and skills.

Other charitable giving strategies are possible. Please contact the Fire Museum at 216-664-6312. They will put you in contact with the appropriate individual to discuss your gift.

Thank you for giving generously. Your gift will make an impact! It will help the Fire Museum achieve its vision of preserving fire history, honoring the fallen and teaching fire education. Through its innovative programming and community outreach, the Fire Museum works to save lives and inspire our youth to study science, technology, math and engineering.

THE ALARM OFFICE DISPATCHING "BIBLE" PRINCIPLE DISPATCHING TOOL... 1930-1994

By Paul Nelson



1930 Photo

The last issue of *The Bugle* reported on the discovery of the old Alarm Office "Bible." Thanks to CFD for arranging its return to the Fire Museum for future display in a restored Alarm Office.

The Bible was the main dispatching tool for incoming emergency telephone calls for 64 years. Its assembled information gave the Dispatcher the necessary steps to take just as the Computer Aided Dispatch (CAD) system does today.



1939 Photo

The Alarm Office at Station 28 went into service in August 1926. Office personnel began to assemble material for the Bible that was completed by 1930. New street alarm boxes had been installed with 4-digit numbers and a new series of running cards had been implemented with response to five alarms. On receipt of an alarm from a street box, the Operator would transmit the box number over the Gamewell telegraph alarm system to all fire stations. Men on duty at the watch desk there would pull the running card to see if their station responded to the location of the street box number.

On receipt of an emergency telephone call to the Alarm Office, the Bible came into play. It was a multi-volume, loose leaf document that listed every street in the City. Each street listed had a range of street addresses that indicated the first due engine and ladder to that location and the number of the nearest street box that would be transmitted over the system should the call indicate a fire. The Telephone Operator would call out the address and type of incident to the Dispatcher standing near the switchboard. The Bible was mounted on an elevated stand. One of the room's schoolhouse lights had an extension that allowed the light to be positioned just above the Bible. The Dispatcher would call out the first due companies to respond. The Telephone Operator would then call that firehouse to get those companies moving. The Dispatcher would also call out the alarm box number to be transmitted. The Operator at the transmitter stand sent out the signal that would start the remaining companies per the running card.



1960 Photo

The Bible would be moved as the equipment in the Alarm Office changed. In 1956 a new dispatch console was installed. It replaced the original transmitter wheels with dials that would transmit box numbers. It also controlled a new status map and was the primary location for radio broadcasts. The overall dispatch procedure remained unchanged. As many of the Operators gained longevity at the Alarm Office, they would often know the first due and box number before it was verified by the Bible. Changes were manually made to the pages of the Bible as streets changed, companies changed and street boxes changed. The photo to the left also shows the "Lazy Susan." The rotating table had three typewriters. To fulfil the requirement of original record copies (rather than carbon copies), the Dispatcher had to type the same information on each typewriter.

In 1963 the old switchboard was replaced by a new switchboard installed in the center of the room. The Bible then moved to a spot on the backside of the switchboard opposite the dispatcher's console. It would remain there until the new CAD system was installed. The photo to the right shows the two primary dispatch tools...the Bible and a set of running cards for all street alarm boxes. The Operator is seen checking a card in the drawer. In the far left corner the automatic recording device can been seen. It recorded all incoming telephone calls and all radio transmissions. A bit of trivia. In 1864 Cleveland was one of the first cities in the US to have a fire alarm telegraph system with street alarm boxes (Boston was the first in 1855). The telegraph system in Cleveland was discontinued in 1999. Boston's system is still in use.



1970 Photo



Dispatch changed dramatically on October 11, 1994 when the new Motorola Centracon II CAD system was fully operational. All the telegraph equipment was removed except for the circuit boards (still in place today). The room was encapsulated for climate control purposes with a drop ceiling to the top of the circuit board panels. Walls were created abutting the circuit boards and doors to the room installed. The Bible was retired. It moved along with other equipment to the new 9-1-1 Center on Payne Ave. and again to the current 9-1-1 Center on Chester Ave. It finally wound up back at 310 Carnegie, its birthplace 92 years later. A significant piece of CFD history has been preserved. The photo to the left shows Danny Hayden (retired CFD and a current Museum Director) at a CAD station on the day the Alarm Office in Station 28 closed, September 25, 2002.

CANTON FIRE DEPARTMENT CELEBRATES 200TH ANNIVERSARY

By John Zangerle

It is not often you hear about a fire department celebrating its 200th anniversary in our area, but this last July Canton, Ohio Fire Department held a parade to celebrate its 200th anniversary. In the early 1800's Canton residents fought fires with leather buckets and bucket brigades. When the city was incorporated in January of 1822, trustees decided a fire service was needed and appointed a "fire master" in July, 1822, and authorized the formation of the first fire company. Canton's first fire engine, a hand drawn pumper, was contracted with J.W.. Lathrop for the sum of \$270.00. As with most early hand pumpers, it was stored in a shed and pulled to the fire



1937 Ahren Fox IT 750gpm One of 3 Sold to Canton

by the volunteers. Citizens would then form a bucket brigade and pour water into the tank of the engine. By the time of the Civil War, Canton had at least eight separate hose companies in operation.

As in many cities a catastrophic fire in 1868 in the Cassily block destroyed a number of businesses and within three weeks the city authorized the purchase of a horse drawn Amoskeag steam fire engine. The Amoskeag was delivered by rail in May of 1868. The city did not have a set of horses stabled in the station at all times, since the fire horses were also used by the street department. This started the era of horse drawn fire apparatus.

The next significant development was in 1869 when Canton established a fire alarm telegraph system. Canton reorganized its

fire department and hired its first paid chief in 1876. Paid firefighters were not hired until 1883. Prior to this the firefighters were all volunteers referred to as "minute men" who would leave their homes or work to fight the fires.



1925 Seagrave Canton Hose No. 1 owned by Tim Elder

Canton was one of the earliest municipal departments to convert to motorized fire apparatus. In 1912 the department purchased a Robinson combination hose and chemical wagon. Four years later, the entire department had become motorized. In 1937 the department started modernizing its motorized apparatus and ordered three identical Ahrens-Fox IT piston pumpers with the requirement that they be powered by Hercules motors. The Hercules Motor Company was a major Canton business. Two of these engines survive today with a restored engine still owned by the Canton Fire Department.

To celebrate its anniversary a parade was held Sunday, July 24, in downtown Canton. Canton's 1925 Seagrave hose and chemical wagon owned by member Tim Elder and the 1937 Ahrens-Fox owned by the city led the parade along with Canton's current apparatus. Several other area departments and marching bands participated in the parade which concluded with fire department demonstrations and a band concert. Congratulations to the Canton Fire Department on reaching this milestone in its history.

DALMATIAN DAY 2022 DOG GONE FUN

By JIM BELL

For the second year the museum hosted Dalmatian Day. On Saturday September 24th the front plaza of the museum was the scene of 20+ wiggly, happy Dalmatians. In partnership with the Western Reserve Dalmatian Club, museum members, staff and guests got to enjoy some time together and celebrate all things with four paws and spots. The museum even had a doggie splash pool set up where our furry friends could cool off and get a drink of water. At the conclusion of the public time the human members of WRDC retired to the museum classroom for their monthly meeting. As the dogs and owners were packing up to leave, many owners expressed they had a lot of fun and were looking forward to their next visit in 2023.



Dalmatian Club Members Pose for Picture

NEW EXHIBIT BEING PLANNED

By John Zangerle

The Fire Museum has been very active in rotating our main exhibit. The exhibit committee decided that the current exhibit merits a longer display and will continue to be displayed next year. In the meantime, we are very excited about our plans for the next exhibit which will feature Ohio manufactured fire apparatus and fire equipment. Initially the names of Ahrens-Fox and Seagrave come to mind, but there were many more manufacturers going back at least to the steam era. Of course, Sutphen is a major manufacturer in the current market place. There were also a large number of equipment manufacturers including Akron Brass which is still a major producer of nozzles and fittings. We have a great deal to work with and we are anxious to hear from anyone who has Ohio made items they would be willing to loan the Museum for this exhibit. We welcome input from our members.

CALENDAR OF EVENTS

- Thursday, February 2 Saturday, February 4, 2023 Phoenix, AZ. SPAAMFAA National Winter Convention is being hosted in partnership with the Hall of Flame. Host Hotel Residence Inn Tempe Downtown/University, 510 South Forest Ave, Temple AZ. Registration deadline January 6, 2023. For more information visit https://spaamfaawinter2023.com.
- Saturday, March 4, 2023 Cleveland, OH. Annual Firematic Flea Market, held at Cleveland Fire Training Academy, 3101 Lakeside Ave, Cleveland, OH. 8am 1pm. Admission \$5.00 with children 12 and under free. For more information visit the Museum website at www.wrfmc.com.
- Saturday, April 22 Sunday, April 23, 2023 Allentown, PA. 2023 Spring Melt Fire Memorabilia Auction and Market. Location Agri-Plex at Allentown Fairgrounds, 302 N. 17th Street, Allentown, PA 18104. Nations premier and largest fire memorabilia auction and marketplace, over 250 vendors. For more information visit https://unionhistoricalfiresociety.com/spring-melt-2023.
- Sunday May 13, 2023 Goodells, MI. 2023 Great Lakes Goodells Internation Swap and Sell. Location Goodells County Park, 8201 Lapeer Road, Goodells, MI 48027. For more information visit http://www.gliafaa.org.

ANNUAL FLEA MARKET SLATED FOR MARCH

By Joan Oliver

The Museum is pleased to announce that we will again hold our annual Flea Market the first Saturday in March on March 4, 2022, at the Cleveland Fire Training Academy, 3101 Lakeside Ave., Cleveland. This is always a welcome sign that spring is on the way and a time to buy and sell fire related items and to catch up with old friends. Clean out your garage or basement over the winter and take a table at the Flea Market or just come down to browse around and find that special item you've been searching for. More detailed information will be posted on our Facebook page and our website. Steve Hiltebrant and Bob Shimits have once again agreed to chair the event. We look forward to seeing you there.



CFD TRIVIA

By Paul Nelson

Q: When did CFD first use radios?

A: In 1930, with listen-only receivers on the Police radio system.

Communication between fire units once they left quarters and the Alarm Office was by means of the telegraph key in the fire alarm street box. A series of numeric signals conveyed instructions and reports. In 1930 that began to change. On March 4, 1930 two listen-only radio receivers were installed on the fireboats tuned to the Police radio (2468Kc, call sign WRBH). Alarm Office personnel would telephone Police Dispatch with information to be relayed to the fire boats. In 1931 receivers were added to the Chief, Assistant Chiefs, Battalion 2-3-9-10-12 and 13, and Ladder 1-3-6 and 11. Alarm Operators would telephone Police Dispatch on all box alarms and special incidents that were repeated over the Police Radio.



Left photo shows radio desk in middle of the room opposite the telephone switchboard. It remained there until the new dispatch console was installed in 1956.

Right photo shows the dispatch console c. 1975 with the radio controls at the left end of the console. That configuration remained until 1994. The new Computer Assisted Dispatch configuration became operational on October 11th.



On April 14, 1945 Cleveland Police activated a new FM radio System (33.10MHz). CFD was given a remote transmitter and new radios began to be installed on CFD units. To avoid confusion CFD cars were assigned "800" designations. Fire suppression units were known by their actual designations. On May 21, 1946 CFD activated their own Motorola FM radio system (33.90 MHz; 33.58MHz return) and existing Police radios were reprogrammed to the new frequency. Call sign was WFDC. On March 1, 1949 FCC changed the call sign to KQA-216 and the iconic radio broadcast "KQA-216 to the Fire Department" was born. By 1950 all CFD units were radio-equipped. The long, spring-loaded antenna was mounted on the fender of the open-cab apparatus.

In 1960 hi-band frequency radios were added (153.95MHz, 153,83MHz walkie-talkies). By 1970 a new GE radio system was installed. Primary radio operations changed to an 800MHz digital trunked system that became fully operational on May 22, 1996. The new call sign was KNGK-825. That was a mouthful! Radio broadcasts became "Dispatch to the Fire Department." The low band and hi band licenses were renewed through 2003. Those two systems went dark when the Alarm Office closed on September 25, 2002 and fire dispatch moved the new 9-1-1 Center in the Police 3rd District building on Payne Avenue. Only the 800 MHz digital radio system remains today and has recently been upgraded.



Western Reserve Fire Museum at Cleveland, Inc.

310 Carnegie Avenue, Cleveland, Ohio 44115-2816

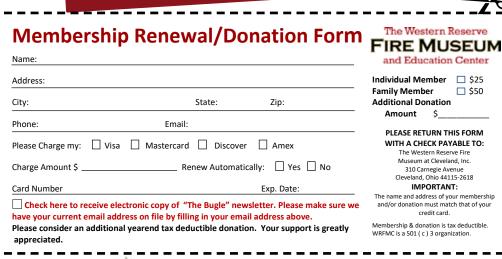
Non-Profit Org. **US** Postage **PAID** Cleveland, OH Permit No. 1418



Don't Throw That Away

The Fire Museum is looking for fire related photos, articles, artifacts from Cleveland and all of the Lands of the Western Reserve as we preserve area fire history.

Thank you for your continued support



MERRY CHRISTMAS AND

HAPPY NEW YEAR TO ALL

your year end contributions

ease remember us when making

*Raymond M. Kotecki *Daniel Martone Dean Murad Patricia Poole, Esq. Elaine M. Straub Angela Timperio * John A. Zangerle, Esq. *Roy P. Ziganti, Jr. * Members of Executive Committee

Fire Museum Officials:

Joan Oliver, Administrator Vebsite: www.wrfmc.com

The Bugle is a publication of the Western Reserve Fire Museum and Education Center. The entire contents © by Western Reserve Fire Museum at Cleveland, Inc.

The Bugle Staff:

Joan Oliver, Editor John Zangerle Layout by Paul Nelson X2Media

Fire Museum Directors:

- * James Bell, President Duane F. Bishop, Jr. Johnny Brewington James F. Byrne
- *Andrew Czarzasty, Esq.
- Bryan Draga *Dan Hayden
- Anjay Khandelwal, MD
- Honorable Timothy J. McGinty
- Paul Nelson, Historian