Annual Report
2011-2012
MESSAGE FROM THE CHIEF

2011-2012 was a year of exciting new initiatives and a refreshed vision for the UC Davis Fire Department. I was honored to be appointed Fire Chief in February of 2012 and immediately set in motion efforts for our organization to attain international accreditation. This undertaking has resulted in several beneficial work products including a strategic plan to carry us through the year 2020, a review of the department’s administrative processes and programs, a campus risk and hazard analysis, and a standard of cover document that will help guide the deployment of our resources to match the risks in our community.

Without question, community is at the heart of all that we do here at the UCDFD. This is your fire department. We have dramatically increased our outreach efforts and are providing more ways for the campus to interact with us than ever before. We are engaging through the use of our new community outreach tricycle (Trike 34) and our website has been revamped to be more interactive, user friendly, and better represent our lines of business. We are continually innovating and exploring new programs and projects that bring the campus to our fire station and take our firefighters to events and activities that are important to our community.

Philanthropy has become a mainstay of our organization’s culture, giving back to those that give us so much. Whether it’s fundraising for the Firefighter’s Burn Institute through Fill the Boot or shaving our heads to support childhood cancer research through St. Baldrick’s, the UC Fire Family is dedicated to caring for our community during emergencies and beyond.

No matter what brings you to our beautiful campus: education, work, events or play, know that the UC Davis Fire Department is here to protect and enhance the safety and well-being of our community with pride and excellence. On behalf of the men, women, and student firefighters of the UC Davis Fire Department, we thank you for the opportunity to serve!

OUR MISSION, VISION, AND VALUES

Our Mission
Protect and enhance the safety and well-being of our community with pride and excellence.

Our Vision
Is to be a model organization through innovative delivery of services that will enhance community well-being.

We Value

Dedication to honesty and fairness, as essential to the trust of our community and customers;

Innovation in our culture and services, while respecting our deep and valued traditions;

Leadership that promotes professionalism, exceptional service, a positive work environment, and job satisfaction;

Service beyond expectations; we will be identified by the pride and professionalism exhibited in all that we do;

Respect as the pillar of cooperation, understanding, and the basis of exceptional service; we value ourselves, each other, and our community;

Integrity reflected in our honest and ethical behavior.


**SUPPORTING A VISION OF EXCELLENCE**

**UC DAVIS** is recognized as one of the nation’s top-tier public research universities. As such, the UC Davis Fire Department provides dedicated, selfless service to reduce the impacts of emergencies on instruction and research.

Our commitment to students, faculty and staff is evident in the comprehensive variety of programs and services we deliver:

- Following the highest standards in life safety, our organization delivers all-hazard emergency response to the campus and neighboring communities, including response to medical emergencies, fires, hazardous materials releases, and natural disasters.

- We engage in strategic community interactions with students, faculty and staff to reduce risk, prevent injuries, and help prepare for emergencies. Providing outreach through a number of annual events such as Fire Day on the Quad and Picnic Day are examples of the ways we try to mitigate risks through public education.

- Our nationally-recognized [Student Resident Firefighter Program](#) weaves our organization into the fabric of the University. The program teaches firefighting skills to a select group of qualified students who live and work at the campus fire station while pursuing their four year degrees. Student firefighters receive hands-on training and professional experience in all aspects of fire and emergency services. Participation improves the students’ career opportunities upon graduation, should they choose to continue in the profession.

- UC Davis is the lead agency for Yolo County’s Multi-Agency Hazardous Materials Response Team whose role is to eliminate the immediate threat of exposure from the release of biological, chemical or nuclear agents. By participating in this cooperative effort, the cost of response is shared, allowing the university and all residents of the county to receive the highest quality service at a reasonable cost. With our institution’s many research and educational laboratories, this program is essential to the well-being of the campus community and the protection of its critical infrastructure.
The UC Davis Fire Department provides unparalleled protection for our students. As a University-dedicated fire department, we provide students and their families peace of mind that their safety is our greatest priority. UCDFD crews provide regular fire and life safety talks and demonstrations to student groups at the fire station and out in the campus community during our public education and outreach events, including Safety Day on the Quad and Picnic Day.

We serve the student community academically by providing subject matter expertise and research support for classes and thesis projects. Additionally, we employ students throughout our department, from our student fire administrative support assistants to our student resident firefighters.

One of the most unique features of the UC Davis Fire Department is our Student Resident Firefighter program. Started in 1955, this program teaches firefighting skills to a select group of students who live and work at Fire Station 34.

The UC Davis Fire Department maintains 15 Student Resident Firefighters who, once selected, become working members of the UC Davis Fire Department.

Required to staff one 24 hour shift, four 14 hour shifts, and two training sessions per month in exchange for housing at Station 34, additional compensation is provided when the students respond to emergency calls while not on duty.

The Student Resident Firefighters are expected to represent the university and the department while on duty, and have the distinction of being a part of one of only three such programs in the country.

Creating a Safe Environment to Learn
UC Davis Fire Department firefighters are uniquely suited to respond to the many different challenges that a large, world-class educational research institution may face, and are focused on safeguarding the life’s work and innovation of our researchers.

Our commitment to students, faculty and staff is evident in the comprehensive variety of programs and services we deliver:

- Our fire department leadership is keenly aware of the university’s research mission, and have incorporated it into all facets of our operations.
- UC Davis’ Hazardous Materials Response Team is highly trained and in a constant state of readiness to eliminate the immediate threat of exposure from the release of biological, chemical or nuclear agents.

**Supporting the Research Mission**

- UCDFD personnel have received specialized training in support of a safe research environment, including electric vehicle battery safety, magnetic resonance training, and biosafety lab (BSL) procedures.
- Fire Department personnel hold regular fire drills for research facilities, and assist in evacuation planning.

The UC Davis Fire Department holds regular training exercises to ensure responder readiness for hazardous emergencies to minimize disruption to the campus community.

UCDFD personnel discuss emergency response coordination with professors and laboratory staff.

Firefighters train with BSL 3 personnel to ensure appropriate care of occupants, while safeguarding our environment from contamination.

UC Davis firefighters assist grad students Matt Jones and Kyle Gaiser with a hydropower engineering project. The students needed a consistently high level of water pressure, and the UC Davis Fire Department was more than happy to oblige!
UC DAVIS strives to support faculty and staff through Worklife and Wellness programming, which enables staff to be successful at work, school and home. At the UC Davis Fire Department, we are committed to providing you a safe workplace, fire and life safety education, and events that reach out to faculty, staff and their families.

Our commitment to UC Davis faculty and staff is evident in the comprehensive variety of programs and services we deliver:

- The campus’ Public Access AED program is managed by Fire Department administration, and is intended to deploy these life-saving devices across campus, including remote work sites like the Primate Center, Hopkins Service Center, and athletic facilities like the ARC and the campus pools.

- UCDFD personnel work closely with UC Davis Staff Development to support opportunities for staff to gain life safety training, like CPR.

- The UC Davis Fire Department participates in numerous annual events that provide outreach and safety education to UC Davis staff and their families. We host tours at the fire station, and provide opportunities for visitors to inquire about their role in fire safety.

PROTECTING UC DAVIS’ GREATEST ASSET: YOU

The UC Davis Fire Department welcomes you and your family to join us at one of our public events. We provide education to adults and children alike, on subjects like emergency evacuation and fire safety.

- UC Davis will soon see the deployment of a lifesaving smart phone application entitled PulsePoint. The PulsePoint app empowers citizens to provide life-saving assistance to victims of sudden cardiac arrest (SCA). Users are notified if someone nearby is having a cardiac emergency and that may require bystander CPR. The app also directs citizen responders to the location of the closest AED. This app is expected to launch in the UC Davis community in September 2012.
In May 2012, the UC Davis Fire Department welcomed a new Fire Division Chief of Training and Safety.

Serving in the fire service since 1984, Fire Division Chief John Heilmann started his career as a volunteer firefighter with the Kentfield Fire Protection District while attending Marin Catholic High School in Kentfield.

Chief Heilmann attended Chabot College and San Jose State University where he participated in intercollegiate athletics and earned a Bachelor’s Degree in Sociology. After graduating from college he joined the Marinwood Community Service District as a Cadet Firefighter.

In January of 1998, John was hired as a Firefighter by the West Sacramento Fire Department. He was promoted to the position of Engineer in 2001 and Captain in 2003 where he served for five years. In 2008, he was promoted to the rank of Fire Division Chief of the Training Division.

John joined the UC Davis Fire Department in May of 2012 as Fire Division Chief of the Training and Safety Division. He provides leadership, management and coordination of the department's training, professional development and safety programs.

Chief Heilmann is also responsible for these programmatic areas for the cities of West Sacramento and Davis Fire Departments through an inter-local agreement between the three agencies meant to standardize operations and training to create a more effective and efficient response force throughout the greater regional community.

Our Newest Firefighters

In June of 2012, three of our department’s newest career firefighters passed their probationary period. They have spent the last year learning the ropes of the organization through training, public outreach, and integration into the campus community.
The West Valley Regional Fire Training Consortium was created in 2012 in response to reduced availability of training resources and staff reductions in fire training divisions throughout Yolo County. The vision of the consortium is to create and operate a model regional all-risk training and education program.

With the UC Davis Fire Department leading the effort to form regional partnerships, the West Sacramento and Davis fire departments became charter members of the consortium in July 2012 followed shortly thereafter by the Woodland Fire Department. The consortium will be overseen by an advisory board formed of participating regional fire chiefs to be implemented by a dedicated Fire Division Chief of Training and Safety, with the assistance of a Fire Captain of Training and Safety.

In addition to the advisory board, the organization will be guided by the recommendations provided by the West Valley Regional Fire Training Committee on issues related to training and education programs. The committee is responsible for developing standardized curriculum, programs, SOGs, and evolutions for region-wide adoption. It will also review illness and injury reports to implement preventative training.

**Benefits of the consortium include:**

- Regionalization and standardization of training ensures the fire service can take advantage of the closest available unit regardless of jurisdiction and speed up the response.

- Training everyone on the basics and special operations using agreed upon, universally adopted strategies and tactics under a common command system leverages resources and increases the capacity of first responders and special teams.

- Through regionalizing training, any emergency is handled more seamlessly thus increasing the fluidity of the operation.

- Regionalized training where the departments train and act as one, will create synergies and opportunities for greater safety, operational effectiveness, and cost efficiencies...

- The West Valley Regional Fire Training Consortium designs, coordinates, delivers and finds funding solutions for cost-effective fire service training provided equitably to all the participating agencies.

- The regional fire service training system uses trained instructors to deliver the necessary training at cost-effective regional training facilities of all types or via multimedia communications to fire stations.
In the spirit of the campus’ commitment to sustainability, the UC Davis Fire Department has begun the process of “greening” the command vehicle fleet. In 2010, the UC Davis fleet (campus-wide) was ranked fourth in North America in the Government Green Fleet Awards. With the transition of UCDFD command vehicles from traditional gasoline engines to greener fuel sources, we hope to contribute to the University’s prestigious ranking.

In 2012, the UC Davis Fire Department transitioned the Chief’s command vehicle from a Dodge Durango to a Volkswagen Jetta TDI, which runs on clean biodiesel, improving the miles per gallon from 13 to more than 40.

With the addition of Fire Division Chief John Heilmann, the department has replaced a second Dodge Durango with a Chevrolet Silverado truck, which runs on compressed natural gas (CNG). This change reduces our fuel cost for the vehicle from nearly $4 per gallon to less than $1.

According to the U.S. Department of Energy, 87 percent of the CNG used in the U.S. is domestically produced, reducing our dependence on foreign petroleum. Additionally, CNG produces 60-90 percent less smog-producing pollution, and 30-40 fewer greenhouse gas emissions.
OUTREACH AND INTERACTION

The UC Davis Fire Department now serves the community both on campus and on the internet. Through community-centered initiatives and new interactive opportunities, our department is now more accessible than ever to the campus community.

Trike 34

How do you have more meaningful interactions with the people you serve? Get out of a fire truck and onto a tricycle! Outfitted with storage for public education materials and adorned with our social media information, Trike 34 was retrofitted by station personnel to match existing apparatus. The tricycle is used for community outreach, and can be seen at campus events such as football games, Picnic Day, and Decision Day for incoming students and their families.

Social Media

The UC Davis Fire Department is now using social media to reach out to students, faculty, staff, visitors, and the greater community. Used to distribute relevant information on training, safety, and daily happenings at the department, our social media accounts provide another avenue through which we can serve the campus community.

- Facebook
- Twitter
- YouTube

New Website

The new UC Davis Fire Department website offers visitors a user friendly website that is easy to navigate and locate information. Additions include links to our social media pages, information on our Division of Training and Safety, and current news relative to the department.

Damian Chapman, the Director of Budget and Planning for UC Davis’ Administrative and Resource Management, takes Trike 34 out for a test drive on campus.
GIVING BACK

SEEING PINK — OCTOBER 2011

UC Davis Fire donned pink UCDFD t-shirts for the month of October to bring awareness to National Breast Cancer Awareness Month and raise money for breast cancer research. Through the sale of the pink shirts UC Davis Fire Raised more than $1300.00 for the Susan G. Komen Foundation.

PEDALING FOR A CAUSE — MAY 2012

UC Davis Fire Department served as a rest stop on the final day of the 330-mile Nor Cal AIDS Cycle. From campus, the cyclists made their way to the rides end at the state capitol. Three members of the campus Fire Department participated in the four-day fundraiser: Captain Shawn Cullen and Firefighter Ben Rizzo, as cyclists; and Meghan Scannell, executive assistant to the chief, as a crew member. On-duty personnel ran the rest stop at Station 34, about midway through the last day of the ride, which took cyclists from Woodland to Winters to Davis and then Sacramento. The ride brought in more than $300,000 in donations for 10 Sacramento and Northern California HIV/AIDS service organizations.

9/11 MEMORIAL STAIR CLimb

SEPTEMBER 2011

Ten members of the campus Fire Department took to the stairs in the west entry parking garage the morning of Sept. 9 to pay tribute to the 343 New York City firefighters who lost their lives in the terrorist attack on the World Trade Center 10 years ago. Wearing all their emergency gear, the

Whether financial or symbolic, being a member of our fire department means being active in giving back to a community and region that has given us so much.
UC Davis firefighters started climbing at 6:30 a.m., up and down, up and down, until 9 a.m. -- symbolizing the New York firefighters' heroic climb on Sept. 11, 2001.

**Fill the Boot for Burns**

**February 2012**

Members of IAFF Local 4437 at the UC Davis Fire Department are all smiles after their Fill the Boot for Burns fundraiser last Friday (Feb. 17) at the intersection of La Rue Road and Hutchinson Drive.

In just seven hours, the firefighters collected $3,503, far exceeding the Local 4437’s expectations. "Your enthusiastic generosity was inspiring, and reaffirmed our desire to tirelessly serve this community," Local 4437 wrote in a thank you letter. All of the money goes to the Sacramento-based Firefighters Burn Institute, a nonprofit organization founded in 1973 for the purpose of establishing a local burn treatment facility; providing recovery programs for burn survivors; providing fire and burn prevention through public education; funding education for burn team professionals, firefighters and burn survivors; and supporting burn treatment and rehabilitation research.

**Conquer Kids’ Cancer**

**March 2012**

Members of the UC Davis Fire Department raised more than $4000 for the St. Baldrick’s Foundation, a childhood cancer charity that works closely with the UC Davis Children’s Hospital in Sacramento. In addition to fundraising, firefighters, administrative assistants, and Chief Trauernicht committed to shave their heads in solidarity. The UC Davis community was invited to the station for the event.

Engineer Nathan Potter participates in an engine training evolution.
2011 marked the beginning of a partnership between the UC Davis Fire Department and Citygate Associates, a consulting firm sought to assist in the development of a strategic plan and standard of cover document for the department. These documents, paired with the efforts of a team comprised of a department cross-section and Citygate members, will lay the foundation for the future of campus fire safety and response.

The committee, which meets monthly, has developed a new department mission, vision, and values that complement the university’s principles of community.

In collaboration with the Citygate consultants, the team has begun development of a number of work products, all leading to the goal of international accreditation for the UC Davis Fire Department. If successful, we will become the first university fire department to attain this prestigious distinction.

This process however is not without much effort. To accomplish the steps required for accreditation, the team will develop a strategic plan to carry the department through the year 2020, setting the course for the department through initiatives and lines of business. Additionally, a review of the department’s processes and programs, as well as a thorough risk and hazard analysis of the campus, must be completed. Upon completion of the hazard analysis, a standard of cover document will indicate to department and campus leadership the necessary deployment of resources required to achieve a safe environment for our community.

In researching the founding of the UC Davis Fire Department for accreditation, we have unearthed our history, including Engine 4, a 1939 Seagrave.
**APPARATUS**

Truck 34 is a Pierce Tiller with a 100 foot aerial ladder. It has a shorter and more narrow wheel base than the previous Truck 34, which allows for better access to tighter locations and crowded roadways. Truck 34 is also lighter than its predecessor, allowing for better handling and shorter stopping distances.

In 2011, the department purchased a new chassis and refurbished its existing Hazardous Materials unit, HazMat 34.

The rebuild of HazMat 34 has made it a more efficient tool for the least frequent but most challenging events. Along with a more powerful engine, HazMat 34 is also more fuel efficient. Its cab is elongated, allowing for all of the passengers to ride in the same compartment. The rear of the cab is equipped with two computer stations and a library of reference materials, allowing for hazardous material categorization while seat belted during response to an incident.

Although the entire front end of HazMat 34 was rebuilt, the box remains original. Storage space has been increased by moving the command center into the cab of the apparatus. The top of HazMat 34 was modified, allowing the storage of equipment in compartments, to protect it from the elements and to streamline its appearance. A large scene light has been added to the roof of the vehicle, allowing for more efficient and safer night or low-light operations.

Both Truck 34 and HazMat 34 adhere to today’s strict emissions standards, trapping much of their particulate matter and regenerating it into a more environmentally friendly exhaust product. Both apparatus are equipped with the best of current safety standards.

In addition to Truck 34 and HazMat 34, the UC Davis Fire Department has three engines. While Engine 234 is our reserve, Engine 34 is one of our two first-out apparatus, and responds to calls daily. Additionally, through an agreement with the California Emergency Management Agency (CalEMA), we house an EMA engine for response. In return for its use on campus, the UC Davis Fire Department agrees to staff the engine and respond to statewide calls for assistance from CalEMA.
The UC Davis Fire Department, established in 1917, has witnessed nearly a century of changing trends in the fire service. Originally established by the dean of the College of Agriculture to mitigate fires on the University Farm, today the UC Davis Fire Department responds to a wide array of calls for service, including: technical rescue, medical emergencies, hazardous material releases, and of course, fires.

Fires no longer dominate our calls for service, and other call types have increased as the University has expanded its community population and use of campus space for research and academic pursuits. The Fire Department has responded by realigning resources to meet the university’s changing needs.

A look at our annual calls by type indicates that more than 50 percent of our calls are medical in nature. As such, our firefighters spend a commensurate amount of time training on medical-related continuing education, hands-on exercises, and skills testing. While fires and hazardous materials calls make up a significantly smaller proportion of our call volume, these types of incidents are considered low frequency but high risk, and thus make up the bulk of remaining training time.

In comparison to the increase in medical-related calls over the last three years, alarm malfunctions and unintentional alarm activations have seen a steady reduction in frequency. The Fire Department has worked closely with Safety Services Fire Prevention Division, the Facilities Management Alarm Shop and department safety coordinators and managers to identify and alleviate the causes of these disruptive alarm activations. As indicated in the chart above, the collective effort has paid off and has lead to a steady reduction in these calls. That translates to less disruption of academic instruction and research.

As the campus population continues to grow, it is likely that we will continue to see an increased need for fire-related services throughout the campus community. Through collaboration, outreach, education and awareness, the UC Davis Fire Department hopes to continue the steady reduction in avoidable calls for service, while remaining ever-ready for campus emergency
The UC Davis Fire Department supports other communities under both mutual and automatic aid agreements.

**Mutual Aid**

Mutual aid works in conjunction with the State of California Master Mutual Aid Agreement providing assistance to fire jurisdictions that need additional resources in emergencies that exceed their capabilities. The UC Davis Fire Department entered into a contract with the California Emergency Management Agency (CalEMA) to house a CalEMA fire engine (EMA 364) at Station 34. In return, the UC Davis Fire Department provides the minimum staffing complement when called upon by CalEMA, we can be en route to an emergency anywhere in the state within 30 minutes of notification.

**Automatic Aid**

The UCDFD has an Automatic Aid Agreement with the City of Davis Fire Department, City of Woodland Fire Department, City of West Sacramento Fire Department and the City of Dixon Fire Department. This agreement provides for the automatic dispatching of multi-jurisdictional resources to greater alarm incidents throughout Yolo and eastern Solano Counties.

Participation in the Mutual and Automatic Aid Programs has strengthened UC Davis’s relationships with neighboring departments as well as state and federal agencies. The benefits to the UC Davis community include on-the-job-training and response experience that would not otherwise be available to UC Davis Fire personnel.

**Looking Forward...**

We are excited to continue our innovative efforts to bring you the very best in fire and life safety response and community risk reduction programs and services.

The UC Davis Fire Department could not be the world class organization it is without the talents, dedication, and outstanding contributions of each and every member. We are more than just a team, we are a family. That closeness, combined with our technical expertise, allows us to provide unparalleled service to the campus community.

Firefighter Erich Schultz describes proper use and installation of a smoke detector to a UC Davis student.