

GODDARD GAZETTE

VOLUME 36

June 2023

Posing in front of Boston MedFlight's Cessna Citation CJ4 twin engine jet are, from left to right:

Senior Member Brian McCaffrey, Cadets Liam Vosnakis, Henry O'Brien, Christian Sargis, George MacPherson, Nick McCaffrey, Bhavya & Shriya Jonnalagadda & Senior Members Keith & John Reid



VOLUNTEER SERVICE: ASSISTING BOSTON MEDFLIGHT

Back in February 2023, members of Goddard Cadet Squadron joined three other squadrons for a tour of Boston MedFlight's facilities at Laurence G. Hanscom Field in Bedford, Massachusetts. Boston MedFlight's operations are centered at Hanscom Field. It is the region's primary provider of critical care medical transport by ground and air. A nonprofit organization, it provides lifesaving services regardless of the patient's ability to pay. On Saturday, June 10th, we had the opportunity to "pay back," so

to speak. A cadre of Goddard members set up dining tables and chairs, display tables, and an entertainment section for the children. On Sunday, the 11th, more than 600 attendees would gather here for the first Patient Reunion since 2019 due to the COVID-19 pandemic.

IT WAS A PLEASURE TO ASSIST THIS WONDERFUL ORGANIZATION.

SETTING UP FOR BOSTON MEDFLIGHT'S 2023 PATIENT REUNION WAS SO MUCH FUN! PLACING FLOWERS ON THE TABLES ADDED A SPECIAL DECORATING TOUCH.



N145NE

BOSTON

Your Life. Our Mission.



VISION



Nicholas McCaffrey



Shriya & Bhavya Jonnalagadda



First Lieutenant Keith Reid



Henry O'Brien



Christian Sargis



George MacPherson & Liam Vosnaskis

GODDARD'S OWN MODEL ROCKETRY EXCURSION TO THE DURGIN ESTATE

This small group of intrepid cadets had tried to launch their rockets at St. Joseph's Abbey one Sunday in November 2023. Frankly, it was SO COLD that the igniter would not fire, even when switching out to new batteries! After months of overall patience, with a twinge of impatience on the part of the cadets, albeit polite, we shelved the launch for warmer New England weather.

Joelyn Durgin, a former Captain in the squadron who had retired from CAP when she moved to the Carolinas, was back to her home in Spencer, MA in May 2023. Her home, a former schoolhouse, is situated on five acres of fields. She kindly offered her acreage for the launch on Sunday morning, June 4, 2023.

It was a beautiful morning. With Captain Antonio Fontes at the helm, our very own "Rocketman," we knew that all would go well. He is a troubleshooter extraordinaire and can fix any mechanical or technical issues on the spot. 2d Lt Dawson Durgin, former cadet and now in AFROTC at the University of Massachusetts, Lowell campus), assisted. Majoring in aeronautical engineering and an old hand at model rocketry, he was the perfect sidekick.

**THANK YOU TO JOELYN AND DAWSON
FOR MAKING THIS HAPPEN!**



**Cadet Josh Sallet,
2d Lt Dawson Durgin
& Capt Antonio Fontes**





Cadet Nick McCaffrey with our Rocket Man.



Captain Fontes is showing Nick how the ignitor works.

Preparing the rocket for launch can be a delicate matter. Capt Fontes is inspecting Cadet Tyler Nolan's rocket.



Safety comes first, and our Rocket Man is on the field with every cadet and with every launch.



Troubleshooting the igniter. Our Rocket Man, as always, would save the day!



Cadet Will Callaghan is holding his single-stage rocket while Capt Fontes helps him prepare for the launch.





Cadet Christian Sargis is examining the equipment under Capt Fontes' watchful eye.



DAWSON DURGIN, a former cadet, has always been a favorite at Goddard. Here, he serves as a spotter and assistant safety officer.



CADET 1ST LT SWETA CHANDRA MAHON'S SEND OFF

June 14, 2023

Being the Deputy Commander of Cadets has its perks at Goddard Cadet Squadron. First off, I get to know not only the cadets but their families as well. Much like my paying job as a pediatrician, I consider this a special privilege, one that I have cherished over the years.

Sweta is an "only child" and much beloved by her family. She's bright, athletic, and, most importantly, empathic. She joined Goddard Squadron at age 14 and has made her mark here. Phenomenal in her first duty position of Safety NCO, Sweta rose in the ranks from Flight Sergeant to Flight Commander to Deputy Commander of Operations.

This cadet joined our unit's Cybersecurity team as a junior in high school and was selected as team captain the following year. As Co-Captain of Goddard's 2022 CAP National High Altitude Balloon Competition, she and C/Lt Col Ita Carrigg led our team to place third amongst a field of 130 competitors. She assisted as a volunteer at external aerospace events, and in the spring of 2023, led Goddard's Safety Team to First Place at the 2023 Massachusetts Wing Conference.

Over the years, she has traveled with the squadron on local field trips (ziplining being a particular favorite) and on long-distance field excursions to Alaska (2021) and to Washington, D.C. (2023). I never had to worry about her conduct during these journeys. She was kind to all and managed to have FUN as well. Indeed, I am laughing now as I think of some of the escapades over the years.

Sweta is now at the United States Air Force Academy. She successfully completed her six-week basic training this past summer and is now a "doolie," or freshman. She is considering majoring in cybersecurity, may try her hand at women's rugby, and LOVES being at the Academy.

Congratulations and best wishes, Sweta! I have no doubt that you will make your mark in this world.

Written by:
Lt Col LouAnn Maffei-Iwuc



C/1st Lt Sweta Chandra Mohan on her first glider, 7 May 2022, Brunswick, Maine.



Hiking in Denali National Park and Preserve, Alaska, June 2021.



Completing basic training at the United States Air Force Academy, Colorado Springs, summer 2023.

The Silent Service:

A TOUR OF NAVAL SUBMARINE BASE NEW LONDON

Sailor's Creed

I am a United States Sailor.

I will support and defend the Constitution of the United States of America and I will obey the orders of those appointed over me.

I represent the fighting spirit of the Navy and those who have gone before me to defend freedom and democracy around the world.

I proudly serve my country's Navy combat team with Honor, Courage, and Commitment.

I am committed to excellence and the fair treatment of all.

On Thursday, June 22, 2023, three senior members and eleven cadets from Goddard Cadet Squadron checked into the Navy Lodge on Naval Submarine Base New London in Groton, Connecticut. After settling down for the night, we prepared ourselves for what turned out to be a marvelous tour the following day!

It all began in 2011 at Joint Base Pearl Harbor-Hickam. My nephew-in-law, then a navigator on a fast

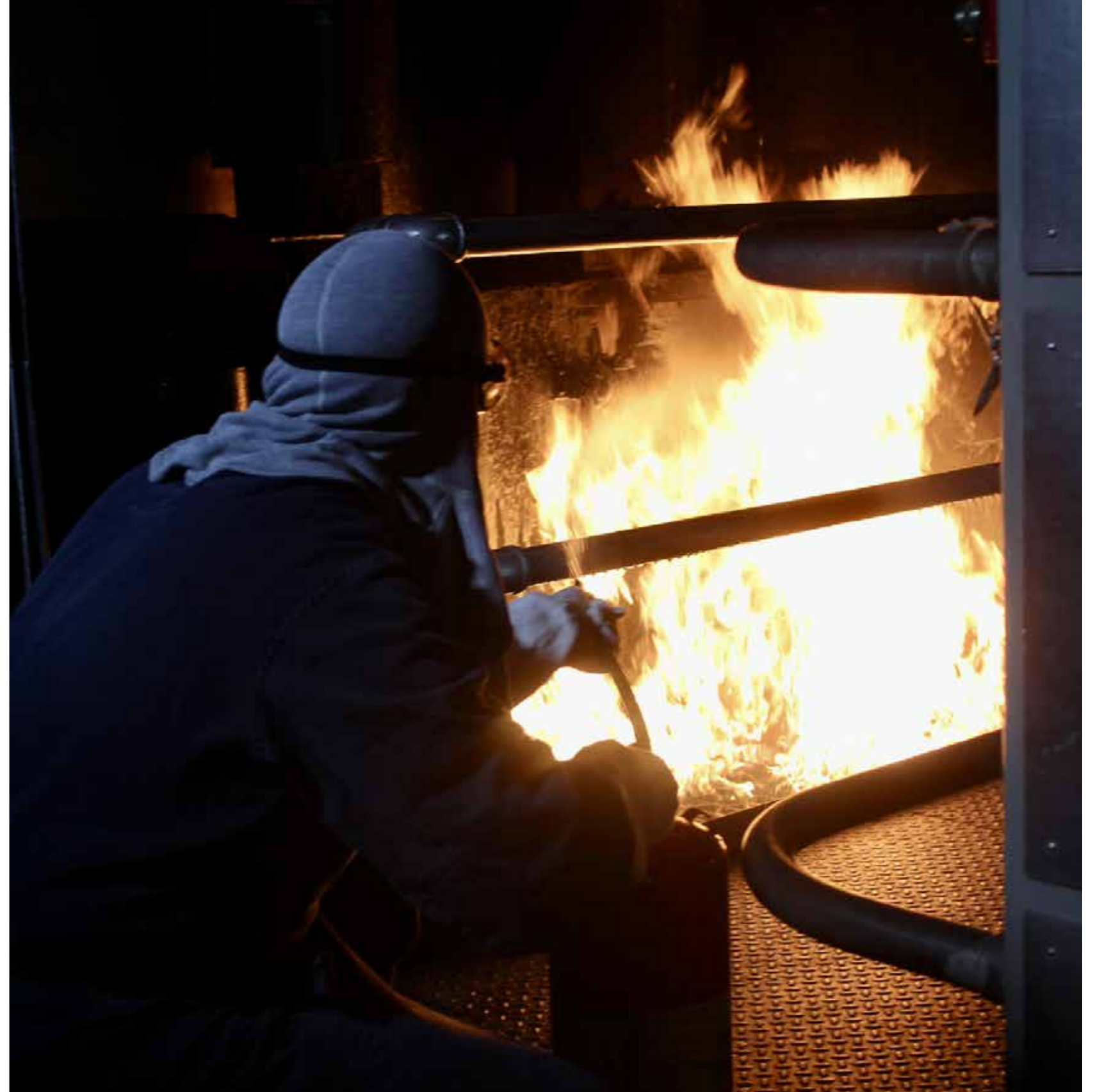
attack sub, offered to give my husband and me a tour of his boat. Little did he know who he was dealing with! Let's just say that we arrived in the early afternoon and departed in the "pitch-black."

The galley alone is so interesting. It is amazingly small and compact, yet feeds about 130 sailors three meals per day. Up at 0300 and hungry for a snack? Planning on making a sandwich? No one is allowed in the galley except for the culinary specialists. Improper food handling could result in a boatload of ill sailors, not compatible with safe operations on a sub. Speaking of that, did you know that some culinary specialists are sent to the Culinary Institute of America to learn how to make gourmet meals and desserts?. Think about it. You're on a sub, with little communication with loved ones and sometimes none at all. The sub will surface for supplies and mail when able, but sometimes this does not occur for weeks. Food is vital to morale on a ship, and even more so when your ship is "in the deep."

Your shift is finished and you need to get some shut-eye? In naval terminology, one's bed or bunk is called a rack. On fast attack subs, if you are not an officer, due to limited space, you share your rack (bunk or bed) with another sailor. This is called 'hot racking.' That is, when one sailor gets up to go to his duty assignment, another sailor comes off shift and rolls into the warm rack. The very thought of this sends shivers down my spine. Think baked beans, ladies and gentlemen! Or the common cold. These possible scenarios alone would be incentive enough for me to strive for officership.

Fires are an ever-present danger on a sub. You are not allowed to leave clothes in the dryer unattended, as a dryer fire could be catastrophic. There are repetitive drills with sailors traveling blindfolded throughout the boat. Every sailor needs to know where every oxygen port and fire extinguisher is on the sub in situations of no visibility due to smoke and fire.

Do you want to earn your "Fish?" This is a dolphin patch worn proudly by both enlisted personnel and



EVERY SAILOR MUST LEARN HOW TO EXTINGUISH A RANGE OF FIRES, FROM CHEMICAL TO ELECTRICAL. AN UNCONTROLLED FIRE WOULD BE CATASTROPHIC ON A SUBMARINE.

SAILORS ON A SUBMARINE MUST HAVE A THOROUGH UNDERSTANDING OF ALL TYPES OF FIRES. LIVES DEPEND UPON THIS SOLID FOUNDATION OF KNOWLEDGE AND TRAINING.



DURING PRACTICE DRILLS,
THERE CAN BE MULTIPLE
SAILORS PRACTICING NOT
ONLY FIRE SUPPRESSION
BUT LIFESAVING CPR.



officers. In order to do this, a sailor must study and pass examinations regarding all submarine systems, from sonar to the nuclear power plant. This process can take a year or more.

A submarine is a marvel of engineering and human ingenuity!! How do you supply adequate oxygen and remove excess carbon dioxide from the air? How do you supply enough water for drinking and for showers? Electricity powers the systems on the sub. There is both nuclear power and back-up systems. Sailors need to communicate with their families. Is SKYPE available? Do cell phones work on a sub? Is there high-speed internet? It takes a special kind of person who can live under the surface of the ocean for weeks (fast attack subs) and for months (boomers). What happens if someone gets appendicitis, and it is too dangerous to get them to the surface?

We were not allowed to take pictures for several parts of this tour for security reasons. This was true for the tour of the submarine drive simulators. Cadets and senior members worked in teams to drive the

boat utilizing a state-of-the-art simulator. The master at the controls calls out changes to be made in depth, in direction, and in speed. Alarms go off as you approach a variety of dangerous situations. We, of course, had a beginner level practice session. The sailors are challenged with making sudden changes in depth or in direction. They must practice evasion techniques and know what to do in emergency situations.

In another segment of the tour, we learned about Submarine Escape Immersion Equipment (SEIE). Sitting on bleacher seats, we peered out at what seemed to be an inviting indoor pool. In fact, this body of water is used to train sailors in the use of SEIE. Beneath the pool's surface is a series of tubes. The sailor dons the SEIE and it is gradually inflated. Then, he is ejected through a water-filled tube to the surface of the pool. It is critical for each sailor to understand how the survival suit works and needs to experience what it would be like to escape from the boat in this manner. In an emergency situation, when coming to the surface is not possible, this would provide a means of escape for sailors on board.



DURING THIS EXERCISE, A SMALL TEAM OF SAILORS NEEDS TO STOP THE LEAKS BEFORE THE COMPARTMENT FILLS WITH WATER. EVALUATORS LISTEN TO THE INTERACTION BETWEEN THE CREW MEMBERS AND MONITOR THE SITUATION.



THESE TRAINING EXERCISE ARE CRITICAL. SURVIVAL ON A SUBMARINE DEPENDS UPON THE SKILLS AND TRAINING OF EACH AND EVERY CREW MEMBER ON THE BOAT.

After a marvelous lunch at the galley (Navy food IS THE BEST), it was off to more training scenarios. My particular favorite was the firefighting simulator. Having a particular fear of all things fire, it was amazing to watch these sailors combat various types of fires (including electrical, chemical, solids, liquids, gases, cooking fats and oils). EVERY sailor on a sub needs to know how to put out each type of fire. Apropos, a dryer sits at the entrance to this simulated training facility.

We ended our tour on a chilling note. Imagine being enclosed in a small compartment in a compact boat in the deep. Whether it be due to a mechanical malfunction or to damage from without, a pipe begins

to leak. Every sailor has been taught how to fix a leaking pipe, so the task should be easy, correct?

Now imagine starting to fix one leak only to find that another pipe is leaking... and another ... and another. In this training facility, a small team of sailors has to work together to stop the leaks in an efficient and timely manner. If they are not effective, the chamber will fill with water, and they will fail the exercise.

A special thanks to Hanscom Composite Squadron for making this tour possible. In particular, we want to recognize 1st Lt Martin Lessem, Deputy Commander for Cadets at Hanscom. The primary organizer for this event, he served as a submariner in the Swedish Navy.



NESTLED BEHIND TRAINING FACILITIES ON THE BASE, THIS LILY POND WAS BREATHTAKING!



CADETS FROM ACROSS MASSACHUSETTS WING GATHER OUTSIDE THE GALLEY AT NAVAL SUBMARINE BASE NEW LONDON AFTER A SUMPTUOUS MEAL.



TRAINING LEADERS OF CADETS INTERMEDIATE COURSE HELD ON SATURDAY, JUNE 10, 2023 AT 6 SOUTH BARN ROAD IN HOPKINTON

Just as cadets need to study and learn in order to progress within CAP's Cadet Program, squadron commanders and cadet programs officers need to have a solid foundation of knowledge in order to run an effective cadet program at the squadron level. There are three levels of Training Leaders of Cadets (TLC) courses: Basic, Intermediate, and Advanced. Oftentimes, they are held at Lt Col Maffei's home in Hopkinton, Massachusetts.

TLC Basic is the prerequisite for registering for TLC Intermediate. The intermediate course is directed toward CAP senior members preparing themselves for service as a squadron commander or deputy commander for cadets. In fact, any senior member involved in the cadet program is encouraged to attend.

Training Leaders of Cadets Intermediate Course Students and Insrtors
Fourth row (Top): 1st Lts Kevin Wilson & Noah Bell (students)
Third row: 1st Lt AJ Cambra and Capt Karen Chevalier (students)
Second row: Lt Col Claire Belden (student) & Maj Rick Walsh (Assistant Instructor)
First row: Maj Jerry Rodgers (Lead Instructor)



Enjoying Open Spaces: Trout Brook Reservation

Quite simply, Trout Brook Reservation is a gem! With an A-frame building and a pavilion nestled on 660 acres of conservation land, it has been a favorite training facility for both Goddard Cadet Squadron and for the Massachusetts Wing Search and Rescue (MASAR) School.

Civil Air Patrol has a very large Emergency Services/Disaster Relief training program, incorporating training in air search and rescue, ground search and rescue, airborne photography, communications, flight line marshalling, mission staff position training following the nationwide ICS (Incident Command System (ICS) protocols, as well as piloting of UAS (Unmanned Aerial Systems).

With Maj Ryan Mastromatteo, SM Paul Farynaz, C/Lt Col Karl Farynaz, and C/TSgt Luke Marjault taking the lead, we want to reinvigorate Emergency Services training at our squad-

ron. During the mornings of October 15, November 19, and December 3, 2023, we will be offering ground team-related courses prior to the meeting. As Lt Col Maffei-Iwuc (and hopefully soon the Farynaz father-son duo) is a Massachusetts Wing evaluator, all training will be evaluated and signed off by her. This will continue into 2024. There is a winter weekend survival school held at Hawk Mountain in Pennsylvania in February 2024 for those who are interested. C/Lt Col Farynaz serves as an instructor at this training.

On Sunday, June 25th, a small number of intrepid members of Goddard Squadron Members participated in ground team member training. There was a combination of indoor didactics and hands-on training. Maj Ryan Mastromatteo served as the trainer and Lt Col Maffei-Iwuc as the evaluator. All skills training is entered on eServices Operations Qualifications.



Learning to lift an “injured” person. Maj Ryan Mastromatteo is giving advice.



Left to right: Cadets P'helix Lafleur, Marco Moya, and Adam Rydlak

Now to learn how to use a litter ...



Joshua Labonte will serve as the "victim" for this first exercise.

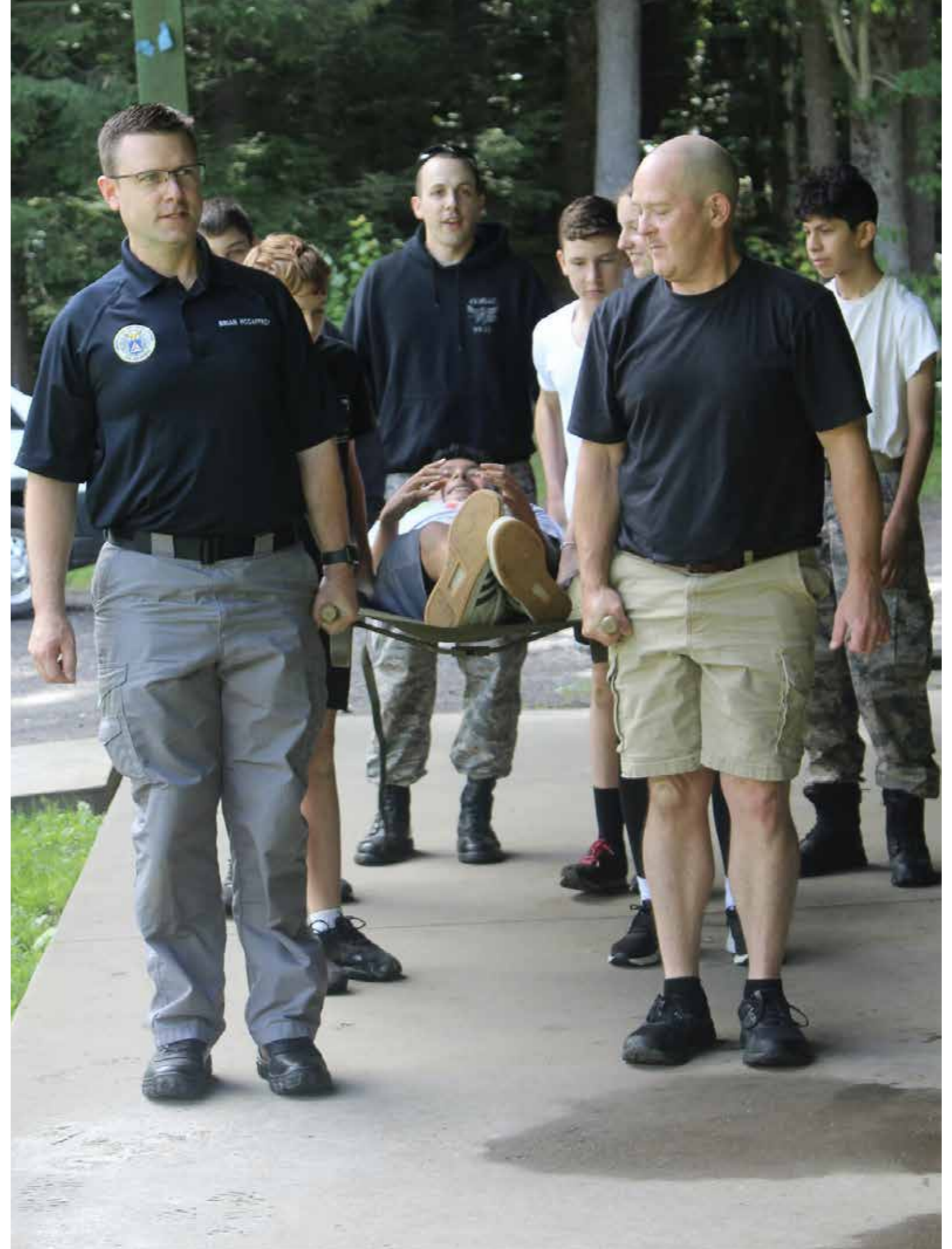
In this photo, Adam Rosado & Joshua Labonte are at the helm, with Adam Rydak on the litter.



It is not easy to safely and successfully lift a patient over obstacles, but this is part of the evaluation. This group has succeeded.



In this photo, Senior Members Brian McCaffrey & Jeffrey LaBonte take the helm. Note Cadet Lily Rydlak kneeling down on the right.



Proof that Science is Not Always Exact!

We wanted to do an Aerospace Excellence module that was inexpensive yet fun! With 1st Lt Susan Hickey, one of our Aerospace Education Officers, taking the lead, Goddard accomplished the mission. As always, there are purchases to be made: film cannisters, baking soda, vinegar, bowls and assorted measuring devices. After taping a twelve-foot-high measuring grid on the pavilion's wooden siding, Lt Hickey explained the project. After donning safety goggles, pack some baking soda inside the top of a film cannister. Separately, add a small amount of vinegar to the body of the cannister. When it's your

turn, approach the grid. When given the "Go" to launch, secure the lid onto the cannister body and shake. Measure the peak altitude reached by your miniature rocket.

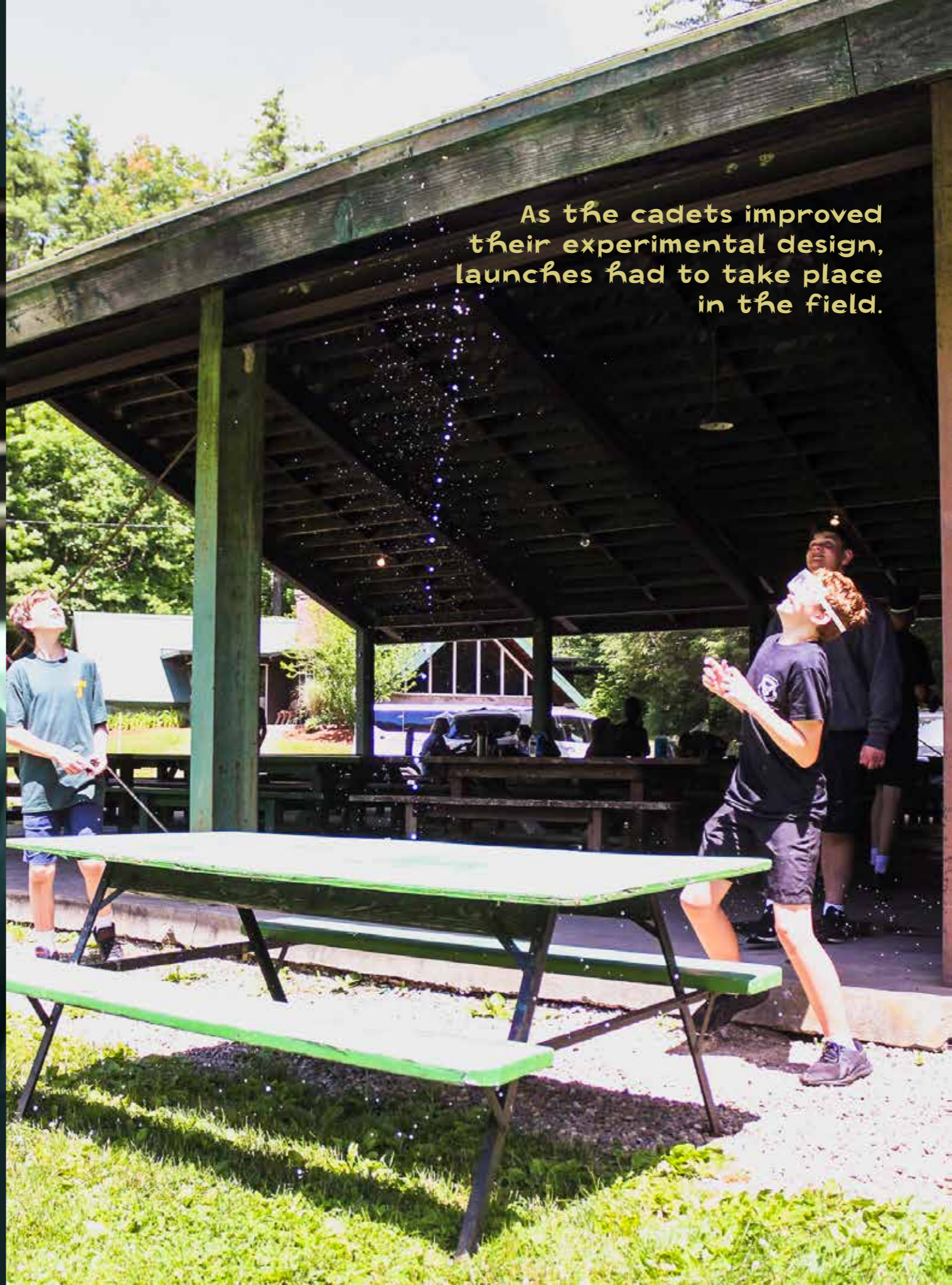
Twelve feet? Was that a joke by the authors of this experiment? These cannisters reached the ceiling of the pavilion, and soon launches had to take place in the open field. It was CRAZY and AWESOME!



1st Lt Susan Hickey, demonstrating a launch.







As the cadets improved their experimental design, launches had to take place in the field.





Notice 2d Lt John Reid far right. He is our Safety Officer and beloved by the cadets!

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Ghost



OK DESIGN