



Hurlburt AFA Chapter 398



Oct - Dec 2017

The Official Newsletter of Chapter 398 of the Air Force Association

AFA Mission

To promote a dominant USAF and a strong national defense, and to honor Airmen and our Air Force Heritage.

To accomplish this we:

Educate the public on the critical need for unmatched aerospace power and a technically superior workforce to ensure U.S. national security. Advocate for aerospace power and STEM education, and support the total Air Force family and promote aerospace education.

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Chapter Officers

President – Jim Connors
Vice President - Fred Gross
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From the President

James Connors, President Chapter 398

2017 was a busy year for AFA Chapter 398 ...and 2018 is starting out just as busy!

3 January is the 1 SOW Unsung Heroes Lunch where we recognize about 15 first term airmen and new civilians for their efforts to get the job done right day in and day out. The 1 SOW Wing Commander is the guest speaker and the Soundside Club is serving our lunch. One of our community partners Boeing is the key sponsor of the lunch.

February is Science fair month. Our chapter is providing four judges to the Emerald Coast Science fair and cash prizes to two winners each in the Senior and junior divisions.

March is a very busy month. On 10 March we will hold a UAV (Drone) workshop for teachers at the McCutcheon Inter-Galactic airdrome in Harold, Florida. Teachers will be able to observe how drones are used, learn the basics of programming drones and how to teach this to their students. There will be other classes in the aviation field including robotics, bottle rockets and glider aerodynamics.

On 14 March we will hold a joint luncheon with the Air Commando Association on Hurlburt Field with Lt Gen Brad Webb AFSOC Commander as our guest speaker. Throughout the rest of the month, there is also the AFA Florida winter meeting and preparation for the Wounded Airman program coming to the Hurlburt/Eglin area in April.

AFA Chapter 398 awarded NDIA Grant

Rick Soria, Executive VP for Aerospace Education

Air Force Association Chapter 398, Hurlburt recently received a grant in the amount of **\$986.91** for our upcoming and innovative unmanned aerial systems / aerial robotics systems (UAS/ARS) STEM Teacher Workshop and Camp Initiative scheduled for March 10, 2018.



Chapter #398, the Air Force Research Lab (AFRL) at Eglin AFB, DEFENSEWERX, Inc., Embry-Riddle Aeronautical University (ERAU) Worldwide, and the NW Florida Manufacturing Council have partnered together to introduce unmanned aerial systems /aerial robotics systems to teachers and students.

It should be no surprise the next innovation in science, technology, engineering, and mathematics (STEM) education innovations will involve bringing UAS/ARS into the school curriculum. The AFRL has engineers working on UAS/ARS to assist warfighters on the battlefield. But local, regional, and corporate entities are looking to use UAS/ARS to assist in a variety of mission tasks still to be identified. One of our goals is to expose students to the UAS/ARS concepts so that they may be included in the

identification and development of new applications for these systems

Chapter #398 has received many accolades over the years for our STEM teacher workshops. The blossoming UAS/ARS technology is where AFA Chapter #398 will take our next series of annual STEM teacher workshops. We plan to begin the purchase of UAS/ARS to allow us to develop and deliver a series of STEM teacher workshops over the next few years to not only add to the robust STEM workshops we already deliver, but to help educators prepare for the students who will be interested in learning about UAS/ARS in their classrooms.

Our plan includes our purchase of a higher end UAS/ARS quadcopter (Yuneec Q500 Quad) with video capability with chapter funds, and a number of low cost UAS/ARS with your grant.

These initial (CoDrone Lites) systems would allow us to develop the curriculum, courseware, and activities for the workshops. The workshops will be designed to teach educators the history of UAS/ARS, current uses of the UAS systems in military and corporate applications, and then provide a hands-on flying training portion. The higher end UAS/ARS platform would be used to develop a drone obstacle / mission course and the lower end UAS/ARS platform would be programmed by educators to engage the obstacles / missions in the course. Course activities would be searching for locations, damaged models of vehicles, personnel, or utility damage. Then teachers will be challenged to develop new applications for the UAS/ARS. This will include taking their skills to their classrooms and students. Student input will be encouraged in the after-workshop follow-on activities.



Several teachers in our region have volunteered to assist in “piloting” this new curriculum by using it in their classrooms.



codrone

Several will be applying for grants for their CoDrone Lites to take part in the curriculum and courseware development. Those schools include SS Dixon Primary School (Santa Rosa), Grand Ridge School (Jackson), Butler ES (Walton), Taylor County Middle School (Taylor), Parker ES (Bay), Hutchison Beach ES (Bay), and Riverside ES (Okaloosa). Teachers from each of these schools will be invited to attend the March workshop. After the best practices are developed, we will include the lessons in subsequent teacher workshops and student STEM / Robotics Camps we present for teachers and students from across the panhandle of Florida. Future purchases will allow us to loan our drone set to classrooms across the region. This will include at least 20 classrooms of 16-20 elementary age students. The list of teachers wanting to partner with us continues to grow.

After our initial workshop test bed and workshop, we plan to look into additional funding and purchases of UAS/ARS and parts to keep our UAS/ARS fleet flight-ready and available for additional workshops and loans to classrooms.

Freedom Self Storage - Featured CP of the Quarter (Oct – Dec 17)

Freedom Self Storage is a state-of-the-art facility located in Fort Walton Beach, Florida near Hurlburt Field’s back gate. The facility offers individuals and businesses the latest in secure self-storage as well as boat and RV parking in 2 locations. Our amenities include: video surveillance, individual door alarms, computer controlled gate access, positive customer identification, site graphics, climate controlled storage, excellent lighting, storage security system, and on-site modern handicap restrooms with professional on-site management. We proudly support our local community and military organizations such as VA Stand Down. Our facility caters to all types of household and business storage needs, feel free to come by for a tour of the property.



Happenings from Around the Chapter

Science Fair December 2017

On Wednesday December 6th, Davidson Middle School conducted their Science Fair. AFA Chapter 398 VP for Aerospace education Rick Soria was invited to serve as a judge for the event. After collecting the project assessment forms from the Judges room, judges were assigned several category areas to review. AFA was assigned the Computer Science, Engineering, and Human and Machine Cognition categories. The students were each provided an opportunity to explain the project to the judges. The judges were encouraged to ask questions about the project, the conduct of the project, and the data collection method used.



Student projects included an investigation into what makes boat hulls move more freely on the water surface, parachute (volume) size, and several projects that investigated batteries. The battery projects looked into how better batteries could be constructed to what the effect of temperature has on the life of battery performance.

CCAF Graduation

Chapter Vice President Fred Gross represented the chapter at the recent Hurlburt Field Community College of the Air Force graduation on the first of November where he made a presentation to SRA Lukas Anderson. Sixty four graduates received diplomas at ceremony. The 1stgt SOW/CC and Group and Squadron Commanders were in attendance. Guest speaker was CMS Steve Dougherty.



The Community College of the Air Force is a federally-chartered degree-granting institution that serves the United States Air Force's enlisted total force. We partner with over 108 affiliated Air Force schools, 82 Education Service Offices located worldwide, and more than 1,500 civilian academic institutions to serve approximately 300,000 active, guard, and reserve enlisted personnel, making CCAF the world's largest community college system. The college annually awards over 22,000 associate in applied science degrees from 68 degree programs.

CyberPatriot

Teacher Jana Friedman and the eleven students from Liza Jackson Charter School participated in the 4 November Cyber Patriot competition. Officers and NCO's from the 39th IOS, Hurlburt Field, trained and monitored the team prior to the Saturday morning event. Lunch was delivered by the Chapter 398, AFA.



Chapter 398 Community Partners

The Hurlburt Chapter of the Air Force Association is proud to introduce our Community Partners. This program links our local businesses who share the same aims with the Air Force Association. Our Community Partners are special members. Their membership provides scholarship funds, grants, AFJROTC support, teacher awards, Space Camp for kids, and AFSOC/Hurlburt quarterly and annual recognition. They support Freedom's Team and support Airpower and a strong national defense.



Community Sponsorship levels are: Commando - \$5000, Diamond - \$2500, Platinum - \$1000, Gold - \$500, Silver - \$300, Bronze - \$150, and Basic - \$100. If you know of any business interested in becoming a Community Partner please contact and of our chapter officers.

Diamond

The Boeing Company – Ft Walton Beach

FLIR Systems Incorporated

Platinum

Lockheed Martin Rotary and Mission Systems
Lockheed Martin – Ft Walton Beach

Lockheed Martin MFC SOS CLSS
MacAulay-Brown

Gold

Eglin Federal Credit Union
Helen Back Cafe

Embry Riddle Aeronautical University (ERAU)
Lt Col Gerry & Kay Chapman Memorial

Silver

Beach Community Bank
Clemenza's at Uptown Station
Emerald Coast Endodontics
On-Point Defense Technologies, LLC
Sacred Heart Medical Group - Rheumatology

Cherry Wealth Advisors
Elbit Systems America
Nathan Hall DMD, "Family & Cosmetic Dentistry"
Preston Hood Chevrolet
WinTec Aeromaker Inc

Bronze

Awards Plus Frames by Sharon
Booz | Allen | Hamilton
Ramada Plaza Beach Resort
Serigraphia Inc.

Aqua Pool and Patio Company
Dennis and Company
SA Technical Services Inc

Basic

Bella Donna's Catering & Café
Freedom Self Storage (CP of the Quarter)
Jimmy's Men's Store and Pawn
McNeil Hotel Company

Emerald Coast Funeral Home
It's All about You Massage & Day Spa (MM15298)
Mama Nu's Kitchen (Formerly Gus' Corona Café)

Coming Events

3 Jan – Unsung Heroes Luncheon, Soundside Club, Hurlburt Field, FL 1130-1300

23 Jan - Executive Council Meeting, 1130, TBA

31 Jan - East Panhandle Regional Science and Engineering Fair, NWF Fairgrounds, Ft Walton Brach, FL

21-23 Feb – AFA Air Warfare Symposium, Rosen Shingle Creek, Orlando FL

23-24 Feb – AFA Florida Winter Meeting, Orlando FL

27 Feb - Executive Council Meeting, 1130, TBA

10 Mar – Hurlburt Chapter Teachers’ Workshop, McCutcheon Airport, Harold, FL, 0730-1600

14 Mar – Joint AFA/ACA Luncheon, Soundside Club, Hurlburt Field, FL, 1130

27 Mar - Executive Council Meeting, 1130, TBA

A promotional graphic for the AFA Air Warfare Symposium. The background features a blue sky with a white fighter jet in the foreground and a larger, darker fighter jet in the background. The terrain below is a rugged, mountainous landscape. The AFA logo is in the top right corner. The text 'AIR FORCE ASSOCIATION AIR WARFARE SYMPOSIUM' is prominently displayed in yellow and white. Below it, 'A Professional Development Event' is written in white. The theme 'Innovation: The Warfighter's Edge' is in white, followed by the dates 'February 21-23, 2018' and location 'Orlando, FL'. A 'Register Now' button is at the bottom right.

AFA
AIR FORCE ASSOCIATION
AIR WARFARE SYMPOSIUM
A Professional Development Event

**Innovation:
The Warfighter's Edge**

February 21-23, 2018
Orlando, FL

Register Now