



**YOUR
CENTRAL FLORIDA CHAPTER
FLIGHTLINER
AIR FORCE ASSOCIATION**



January 2012



GALA EVENT SALUTES AIR FORCE POWER THROUGH RESEARCH AND DEVELOPMENT

*Air, Space and Cyberspace Power
comes through R&D*

by Bill Palmby, Executive Vice President

On Friday February 24th, the chapter will celebrate "Air Force Research and Development" at its annual black tie/mess dress Air Force Gala dinner at the Rosen Shingle Creek Hotel. Individuals and organizations associated with past and ongoing Air, Space, and Cyberspace power through Research and Development (R&D) efforts will be honored.

A golf mixer will be held on Wednesday the 22nd at Disney's Magnolia and Palm courses. On Thursday and Friday morning, AFA will host the Twenty-Eighth Air Warfare Symposium. Key speakers invited for the event include the Secretary of the Air Force, the Chief of Staff, the Chief Master Sergeant of the Air Force and other general officers. Exhibitors will display the very latest in military technology in over twenty-three thousand square feet of exhibit space.

More information on these events can be obtained at www.AFA.org and select the link to the Air Warfare Symposium.

Considering that aviation itself is the result of one of the most daunting R&D programs ever undertaken by man, one can easily understand that maintaining status as the "World's Greatest Air Force" is all about continuing to push the limits of Re-

See Gala R&D Awards, page 6

In this issue...

Sign up today *Page*
Gala and other events 1, 6, 7

Future Events
Calendar 3
Chapter Council Meetings 3

Aerospace Education
ACE Program Kickoff 4
CAP Int'l Award 4
CyberPatriot Gift 3

Legislative Affairs
Lessons from Lybia 7

Key Accomplishments
Membership 5
Community Partners 8

MAKE YOUR RESERVATIONS TODAY!

CFC Golf Supporting AWS - Feb 22nd

AFA Air Warfare Symposium - Feb 23rd - 24th

CFC Gala - Feb 24th

(More Info and Reservation Form, pages 6-7)

Visit our web site to get
more Chapter information...
<http://centralflorida.afaflorida.org>



Central Florida Chapter Mission
AFA advocates a strong national defense through aerospace power.

We support and encourage the study of science and technology, and . . .
We educate the Central Florida community on the importance of technology to national security.



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From the President

Let's Make an Impact Together!!



Greetings fellow Central Florida Chapter members. I am extremely excited to serve as president of our great chapter. During the most recent Awards and Installation Luncheon, I spoke a little bit about the IMPACT of our association. I would like to share some of those thoughts for those of you who were not able to attend.

When I was a cadet in AFROTC many years ago, I first saw the IMPACT of our organization. I was invited to attend the national convention in Washington D.C. While there, I had the opportunity to meet the leadership of our United States Air Force and hear about the future course that they were charting for our Air Force. I can vividly remember talking with the Chief Master Sergeant of the Air Force about a variety of topics to include the rationale behind the selection of the new AF uniform. Without the IMPACT of the Air Force Association, I would not have been afforded that unique opportunity. That opportunity continues to this very day at our national convention and also locally each year at the Air Warfare Symposium held in Orlando each February.

Each year, our chapter also holds the scholarship opportunities program for local middle/high school students and their parents. At that event, those students are able to interact with current USAFA and AFROTC cadets to learn what it takes to earn one of those coveted slots in those two critical commissioning programs. Without the efforts of your Central Florida Chapter, those cadets would not be able to IMPACT those prospective students and their parents.

While serving as an Assistant Professor of Aerospace Studies at the University of Central Florida, I was able to serve on the selection board for the CFC AFA scholarship program. Through this valuable program, our chapter is able to provide much needed scholarship funding to deserving UCF AFROTC cadets. Seeing the faces of those cadets as they received those scholarships was yet another illustration of the IMPACT of our Central Florida Chapter. Those funds allowed many of them to spend less time worrying about how they were going to pay that semester's tuition.

As those cadets reached the end of their time at UCF, I was also able to see hundreds of them receive their commission as second lieutenants in the USAF. Our chapter was again there making an IMPACT by providing them with their first set of second lieutenant rank and a complementary AFA membership. More important than the rank itself was a solid understanding of the partnership between AFA and the USAF.

This is a just a small sampling of the IMPACT generated by our association. Over the next two years, it is my goal to continue the IMPACT on the Central Florida area. In order to do that, I am going to need your assistance. We have a variety of different programs that our chapter is involved in, and we are always looking for help. If you know of a program that you want to help with, contact the POCs listed in the FlightLiner. If you have an idea for a new program, let us know about it. Through the combined efforts of our membership, we can not only continue the IMPACT of our chapter, but we can also expand it.

Thanks,

Mike Liquori

CyberPatriot School Receives Computers

by Lt Col Sharon Branch, AFJROTC

AFA and aerospace industry leaders are both looking ahead at our nation's future and placing renewed emphasis on cyber security! This brought about "CyberPatriot," a competition that gives hands-on practice for students across the nation.

To demonstrate support, a recent gift of four laptop computers was given to the CyberPatriot students at Dr. Phillips

High School! The computers were presented by the Northrup Grumman Foundation with founding partners Science Applications International Corporation (SAIC) and The Center for Infrastructure Assurance and Security (CIAS).

This is not a new venture for Dr. Phillips High School AFJROTC (FL-881). They have fielded a team since CyberPatriot's inception at the high school level.

This year was special! AFA's **Bonnie Callahan**, reached out to others in the community to find help for our Orlando area AFJROTC units. She sought out those who could help with training and act as mentors to local teams. In doing so, **Bonnie** met **Mrs. Roberta Myers**, a Northrup



Grumman manager, and her colleagues, **Mr. Edward Gold** (also of Northrup Grumman) and **Mr. Glenn Goranson** (Lockheed Martin). This group helped bring about the Northrup Grumman's computer donation which allows more students to have the opportunity to participate. **Mr. Gold** and **Mr. Goranson** also made themselves available to mentor students on cyber security.

This type of partnership between the community and the schools provides a synergy that results in positive gains for the education of our future leaders in society.

AFA and CyberPatriot

Through CyberPatriot, the **Air Force Association** wants to make the public aware of the importance of cyber security.

CyberPatriot also reaches out to educate and train our students giving them hands-on experience with computer cyber security. Annual competitions include teams from AFJROTC, CAP, and high schools from across the nation.

For more information about CyberPatriot see :

www.uscyberpatriot.org

Chapter Council Meeting

The Council meets on the second Thursday of each month at 7pm at the Showalter Flying Service building at the Orlando Executive Airport.

- All Officers and Council Members are requested to attend.
- All members are welcome.

Please check the calendar for any changes!

FlightLiner Note

Thanks to all who have contributed to make this the best Chapter newsletter!

Please send your comments and suggestions to Ken at: kennethkelly@earthlink.net

Deadline for articles for the next edition is April 12, 2012

Events Calendar

January 2012

- 12 * Chapter Council Meeting
- 16 Martin Luther King Holiday

February

- 9 * Chapter Council Meeting
- 20 President's Day
- 22 CFC Golf supporting AWS
- 23-24 AFA Air Warfare Symposium
- 24 CFC Gala (Shingle Creek)

March

- 8 * Chapter Council Meeting
- 24 AFA FL State Meeting (Tampa)
- 24 JROTC Drill Meet (Tampa)
- 25 Scholarship Opportunity Program (USAFA & AFROTC)

April

- 8 Easter
- 12 * Chapter Council Meeting (Deadline for FlightLiner articles)

May

- 10 * Chapter Council Meeting
- 19 Armed Forces Day
- 28 Memorial Day

June

- 14 * Chapter Council Meeting
- 14 Flag Day

* See details in this newsletter

ACE Program Lifts-off at Ridgewood Park

by Barbara Walters-Phillips, Event Organizer

The Civil Air Patrol's **Aero-space Connections in Education (ACE)** program had a successful lift-off last November at Ridgewood Park Elementary School in Orlando. ACE is co-sponsored by your Central Florida Chapter of AFA.

ACE is a highly motivational kindergarten through grade 5 curriculum which will be taught throughout the school year by teachers as well as community volunteers. Lessons are academic and also include character and physical education.

Members of the Central Florida Chapter of the Air Force Association attended the program



and they have been invited to participate in teaching classes and to assist with awards presentations at the conclusion of the program in June.

The kick off was a fun event! A yellow hot air balloon with a big smiley face, provided by **Skip Pringle**, was teth-



Joe Kittinger shares some great aviation "secrets" with the new ACE program students.

ered on the field during the program. Students were welcomed by **Susan Mallett**, Youth Development Program Coordinator, National HQ of CAP. Evans High School's



JROTC color guard presented the colors and the invocation was given by **Richard Ortega**.

The keynote speaker

was **Col. (ret) Joe Kittinger**, legendary aviator who holds the world's record for jumping from a balloon at 102, 800 feet. Thanks Joe!

The program concluded with all students singing the song "Up, Up and Away in my Beautiful Balloon" as they all flew their aeroprops provided by the ACE program.

CAP Receives International Honors

by John Lynn, CAP Liaison

Civil Air Patrol (CAP), the U.S. Air Force auxiliary, will be awarded a World Peace Prize during a June 14th ceremony at the U.S. Capitol. Chief Judge of the World Peace Prize and retired U.S. Rep. Lester Wolff announced CAP will be honored as the World Peace Corps Mission's "Roving Ambassador for Peace" at the ceremony in Washington, D.C.

"Civil Air Patrol makes a huge impact, going above and beyond to make a profound difference in America's communities, saving lives and preserving liberty for all," said Wolff, in announcing the World Peace Prize recipients for 2010.

The awarding council for the World Peace Prize operates according to the core spirit of advancing

peace and justice and inter-religious collaborations. Past recipients include President Ronald Reagan of the U.S., President Abdurrahman Wahid of Indonesia and President Kuniwo Nakamura of Palau, amongst others.

CAP celebrated its 70th anniversary on Dec. 1st. It has been conducting humanitarian missions from the early days of World War II and is considered by many as the world standard for aviation-oriented, volunteer emergency organizations.

In its Air Force auxiliary role, CAP performs 90 percent of continental U.S. inland search and rescue missions as tasked by the Air Force Rescue Coordination Center. When natural or man made disasters occur, CAP's citizen volunteers are



often the first on the scene, transmitting digital images of the damage within seconds while providing disaster relief and emergency services for victims. Civil Air Patrol also plays a leading role in aerospace education and serves as mentors to the more than 26,000 young people currently participating in CAP cadet programs.

"Civil Air Patrol is delighted to be chosen for this prestigious international honor," said Maj. Gen. Amy S. Courter, CAP's national commander. "This reflects greatly upon our 61,000-plus members, who work diligently in their communities to serve their fellow citizens."

*We welcome YOU
to join and participate in the
Central Florida Chapter
of the
Air Force Association!*

Membership News

To help keep our organization strong, each and every one of us should always be on the lookout for new members. The prospect list is rich: newly retired Air Force members, recently separated veterans, families of Air Force members, and just about any citizen concerned with a strong national defense.

"Our best recruiter is you!"

Tell our AFA story...

Telling "our" AFA story is easy when you consider the many things that our Chapter and other chapters around the nation are doing!

From Aerospace Education to educating Congress. From Veterans support to our support of Teacher Workshops. AFA is a key in motivating young men and women to become "our" Air Force of the future.

Let others know and they will want to join our AFA team.

How YOU can do it too...

When you find a candidate, there are some easy ways to help them join our great organization. **Besides sharing what great things we do -- give them an application and ask them to complete it.** Copies of the AFA application are available:

Printed — There is one in every FlightLiner. Cut it out and give it to a friend.

Online — Go to www.centralflorida.afaflorida.org and click the "Join Now" link down the left side.

Phone / Email — Contact the membership chairman (**Tommy Harrison**) to complete an application. Call 407-886-1922 or Email: tgharrison@aol.com.

Follow up...

You really want them to join, so follow up, welcome them, and again, share the AFA story.

AFA APPLICATION



Check here if renewal.

NAME _____ RANK (if applicable) _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

Central Florida Chapter #303

AFA CHAPTER CHOICE _____ DATE OF BIRTH _____

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I understand the annual \$45 fee includes a subscription (\$25) to AIR FORCE Magazine. AFA dues are not deductible as a charitable contribution but may be deductible as an "ordinary and necessary" business expense.

CURRENT MILITARY STATUS

- Active Duty U.S. Armed Forces
- U.S. National Guard
- U.S. Reserve
- Retired U.S. Armed Forces
- Previous U.S. Military Service
- Spouse/Widow(er)/Lineal Ancestor/Descendent of Veteran
- Civilian (No service w/ U.S. Military)

Branch of Service: _____

CURRENT PROFESSION

- Aerospace Industry
- U.S. Government
- Retired
- Other

CURRENT JOB FUNCTION

- Management
- Engineering
- Operations
- Procurement
- R&D
- Retired
- Other

MEMBERSHIP OPTIONS

- \$45 for 1 year
- \$110 for 3 years

Special \$22.50 rate for:

- Current Service Enlisted E1-E4
- Current Student

Life Membership

- \$600 single payment
- \$630 extended payments
 - Initial payment of \$90 and 4 quarterly payment of \$135 each
 - Initial payment of \$90 and 8 quarterly payment of \$67.50 each

DONATION

I wish to include a charitable donation to support AFA and its mission to promote Air Force Airpower.

\$10 # _____ \$25 # _____ \$50 # _____ Other \$ _____

Contributions to AFA are fully tax-deductible for Federal income tax purposes.

METHOD OF PAYMENT

- Check enclosed (not cash)
- MasterCard
- American Express
- VISA

Account Number _____ Expiration Date _____

SIGNATURE _____ DATE _____

Membership Info:
Tommy Harrison
tgharrison@aol.com
or call 407-886-1922

Please mail application to:
Air Force Association
501 Lee Hwy
Arlington, VA 22209-9963

Gala R&D Awards

(continued from page 1)

search and Development. During the Gala, several key organizations and personnel will be highlighted for their innovative efforts to “push the envelope” in critical R&D areas. It is important to note that these revolutionary breakthroughs were only possible due to the collaborative efforts between government organizations, industry and their academic partners.

The following represent this great endeavor:

Guided Munitions

The desire to increase the accuracy of airborne munitions has existed almost as long as there has been manned flight. Early efforts that predate WWII have now blossomed to the point where today’s laser and Global Positioning System (GPS) guided munitions can provide a single aircraft the same effectiveness as squadrons of World War II bombers. These amazing R&D efforts enable our Air Force to maximize target damage, minimize collateral impact - all, while reducing the number of aircraft and crew put in harm’s way.

Human Effectiveness

As R&D efforts rapidly advanced the hardware and software available to the Air Force, it became imperative that similar advances in Human Effectiveness were needed to allow our Airmen to fully utilize each new breakthrough. From cockpit design to Aircrew Resource Management to improved G-force tolerance, Human Effectiveness R&D proved to be just as important as any state of the art aircraft or weapon. Other critical areas of Human Effectiveness R&D include: ejection seat research, laser eye protection, night vision goggle systems, helmet / visual target tracking systems and automatic speech recognition technology.

Low Observables

Low observable, or stealth aircraft refers to design features to reduce identification and tracking by radar, but also in visual and/or acoustic signature. In public perception, stealth is equated with the most modern, high-tech aircraft, but the roots of the technology go back many years. In the early 1950s, the Air Force Office of Scien-

tific Research explored the application of the theories of high-frequency electromagnetic scattering to the reduction of aircraft radar cross sections. The U-2 and SR-71 aircraft were early attempts at stealth design. From the F-117 to more contemporary low observable aircraft like the B-2 and F-22, modern stealth aircraft have all benefitted from the basic principles and early experimental findings done over the course of several decades by the Air Force laboratories.

Precision Navigation

The convenience of a GPS portable navigation unit in your car is almost taken for granted today; however, many of us would be lost if not for the synergistic R&D efforts made by the USAF, industry and academia. These efforts began in the early 1920s when McCook Field engineers devised the radio beacon navigation system, which was later adopted by the Department of Commerce as the basis of air traffic control routes throughout the continental United States. During the 1960s, earlier systems evolved from systems for point-to-point navigation to systems providing precise velocity measurements necessary for the accurate navigation of aircraft and weapons alike. Indeed, Inertial Navigation Systems are still standard equipment in the Air Force’s tactical and airlifter fleets and many ISR platforms. Ultimately, the technology of the ballistic missile and the communications satellite led to development of the “great enabler” of not only all modern precision navigation but the very concept of “battlespace,” the Global Positioning System (GPS).

USAF Scientific Advisory Board

Following World War II, the speed of technological advances made it apparent that oversight was needed to help direct, steer and focus the almost infinite R&D possibilities available to pursue. To help fulfill this need, the Air Force Scientific Advisory Board (SAB) was formed by Gen. Hap Arnold. The SAB provides independent advice on matters of science and technology relating to the Air Force mission and reports directly to the SECAF and CSAF. With visionary members like Theodor Von Kármán, Jimmy Doolittle and Hans Mark, the SAB provided forward looking advice on technologies such as supersonic aircraft,



weather forecasting, satellite communications, medical research and unmanned aircraft. Today, the SAB focuses on future technology through in depth reviews of Air Force Research Laboratory science and technology developments and its studies of topics tasked by the SECAF and CSAF. These efforts serve to inform Air Force leadership and influence science and technology adopted by the Air Force.

Dr. Hans Mark

Dr. Hans Mark has been pivotal to the success of numerous R&D programs affecting the USAF for more than six decades. After earning his Doctoral Degree in Physics from the Massachusetts Institute of Technology, Dr. Mark was focused on teaching, consulting or leading R&D programs. He has served as the chairman of the Department of Nuclear Engineering and administrator of the Berkeley Research Reactor, the director of the Ames Research Center (NASA) and was the 13th Secretary of the Air Force. Dr. Mark was also indispensable to government and industry where he served as a consultant to the Institute for Defense Analysis, the National Science Foundation, the U.S. Air Force Science Advisory Board, the President's Advisory Group on Science and Technology and the Defense Science Board. Dr. Mark not only participated in Air Force R&D, but has also developed the oversight that provides direction to the overall R&D process.

Three Key Players...

The R&D areas cited above provide but a small example of the numerous advances that have made our Air Force what it is today.

Even more critical in today’s budget constrained environment, this 3-pronged R&D attack by **academia, industry** and the **USAF** continues to ensure the maximum efficiency and effectiveness of our Air Force.



Lessons from Libya

*Adapted from an interview with
John Michael Loh, General, USAF Retired*



The end of Moammar Gadhafi's reign is a great victory for the people of Libya and everyone who loves freedom. It is also a proud moment for NATO and the West — it wasn't an easy decision to launch this effort.

One aspect of the campaign bears special notice. Because NATO planners wisely focused on our areas of greatest strength — like air strikes and reconnaissance — and left the ground war to local forces, we have reached this milestone without any U.S. casualties and at a fraction the cost of the Afghanistan and Iraqi conflicts. Most important, the fighters who captured Gadhafi in the end were Libyans. That bodes well for their long-term stability.

The lesson for future conflicts is clear — U.S.

military action abroad should be conducted from the air whenever possible, where we have an overwhelming advantage — one that has grown even larger in recent years with the growth of modern fighters, precision-strike, reconnaissance drones, and high-resolution satellites.

Unfortunately, experts are warning that the defense cuts being considered in Congress would put these advanced capabilities at risk, and threaten the research and investment we need to extend our advantage in the skies.

As a former Air Force vice chief of staff and former commander of Air Combat Command, I think that would be a mistake — and one the next president faced with a problem like Libya might regret.

Mike Dunn, President and CEO of AFA, was also interviewed back in late August on NPR about Operation Unified Protector (OUP) [Libya]. Here were his main points, plus some later comments:

- Airpower played a significant role in any success the rebels may have had
- In modern warfare, no Army has ever won without control of the skies
- The rebels would never have been able to advance into Tripoli without Airpower
- Things that went well: political resolve, sustained operation, small loss of life
- Things that could have been done better: sortie rate (150 per day) was too low to have a more devastating effect; costly effort by using TLAMs in the opening days
- Airpower has the potential to keep us out of long and bloody occupations.

The question of the length of a US-led operation caused me to pause ... and then to do some analysis of this and other comparable operations.

There are some very important points to make: Mass and numbers matter in an Air Campaign. The more aircraft in an operation, the more likely it is to finish quickly ... and the less loss of life.

Most air campaigns conduct attacks against 15,000+ aim points. In OAF, 23,000 bombs and missiles were launched.

So, as the Pentagon looks to cut its budget, it should remember our experience with the past. A former boss of mine liked to quote George Santayana: "Those who cannot remember the past are condemned to repeat it."

----- Cut Here -----



To be Received by February 13, 2012

AIR FORCE GALA - FEB 24, 2012

Rosen Shingle Creek Hotel 9939 Universal Blvd, Orlando, FL
A special AFA member (non-business) rate has been established
for this prestigious black-tie dinner celebrating
"Air Force Research and Development"



Please reserve ____ tickets @ \$150.00 each = \$ _____

Name: _____ Email or Phone: _____

Make check payable to: **AFA-CFC Gala**

Mail to: Bryan B. Paul, CFC Treasurer, 1214 Swan Street, Winter Springs, FL 32708-4108

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See you there!!

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2012-1



Our Community Partners Are Special!

The Central Florida Chapter proudly associates with our community through the Community Partner Program. We encourage all our members to support these businesses that support us.



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