



AIR FORCE MATERIALS AND MANUFACTURING ALUMNI ASSOCIATION (AFMMAA) NEWSLETTER

NINETH EDITION

FALL 2008

RX DIRECTOR'S MESSAGE

Dear Colleagues and Alumni of RX. I am Col. Gary Konnert, Acting Director of AFRL/RX. Since the last edition there have been some changes in the leadership structure here in the Materials and Manufacturing Directorate. In September, Dr. Walker was selected to relocate to the Pentagon as Associate Director of Programs, Deputy Chief of Staff for Strategic Plans and Programs (A8), Headquarters Air Force. He helps lead AF/A8P in integrating, analyzing, and evaluating the \$75B per year Air Force program and presenting it to the AF senior leadership for approval. While reluctant to leave RX, Dr Walker has stepped up to equally important work at the Air Force level. As a result I have become the Acting Director and Dr Jeff Zabinski has been moved up from RXB in the role of Acting Deputy Director.

Plans are in progress to hire a new director. The interview process for a new senior executive service director has finished the initial stages. Expectations are for a mid-January final selection of the new director. This window is highly variable depending upon who is selected and individual circumstances. When more information becomes available, I'll make sure we get the info out.

Air Force Materiel Command, AFMC, is also under new leadership. On 21 November General Donald Hoffman officially took command, and replaced General Bruce Carlson at a ceremony held at the Air Force Museum. Hundreds of Air Force personnel were present to watch the flag change hands and General Carlson retire after 37 years of service. Officiating at the ceremony was Air Force Chief of Staff, General Schwartz.

RX was instrumental in another successful execution of the Phoenix Warrior exercise (11-23 June 2008) at Ft Drum, New York. Conducted annually by AFRL since 2002, the exercise enhances the ability of our people and technology to meet the AF's wartime mission. Simulating a real-world deployment, 48 CGOs (13 from RX) departed WPAFB aboard a C-130. Once at Ft Drum, the CGOs quickly set up the GP-Medium tents that would be their living and dining quarters for the next 10 days. Highlights of the training this year included M-16 qualification, tactical vehicle driver (HMMWVs & M-293s), and counter Improvised Explosive Device (IED) training provided by the Army's IED Center of Excellence. The training ended with a capstone exercise complete with insertion and extraction aboard H-60s. RX also deployed 8 separate technologies for field level evaluations and demonstrations. All AFRL technologies performed extremely well. Folks from both the Army and the 20th ASOS (AF) provided valuable feedback to further improve/develop the technology. Customer interest in several technologies was extremely high, and system purchases, deployments, and follow-on meetings resulted.



Phoenix Warrior 08

Capitol Hill Workshops

RX also sent our executive group, planning team, and career mentoring protégés for a highly engaging week on Capitol Hill, DC, where they got to witness congressional testimony from the Secretary of the Air Force and the CSAF. The workshop was designed to provide a solid understanding of Congressional operations and the legislative process. In addition to witnessing a congressional hearing the RX team received instruction on topics ranging from public and foreign policy

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(RX Director's Message Continued)

becoming law, to how the media covers the hill. This course is designed for GS-12 and above, military officers, supervisory personnel, and Leadership Development participants.

Bluing Trip

The "Bluing Trip" is organized by the RX Junior Force (JF) Council of the AFRL and has been supported by the RX Director since its inception, Spring 2007. The purpose of the Bluing Trip is to take a group of 30 RX JF members and RX senior leadership to operational Air Force Bases and installations locally, and around the country. The most recent Bluing Trip took place October 20-24, 2008 with site visits to Vandenberg AFB (CA) and Edwards AFB (CA). At Vandenberg AFB we attended a 30th Space Wing Mission Brief and visited the Space & Missile Western Launch and Test Range, Missile Alert, and Orbital Sciences. At Edwards AFB our tours took us to the Air Force Test Pilot School, Electronic Warfare Division, Rocket Engine Test Facility, the Global Hawk (UAS), 416th F-16 Flight Test Squadron, F-22 Combined Test Force, Flight Test Simulator and the F-35 Hanger. After returning, the overwhelming consensus was that WE ARE one Air Force and the AFRL is filled with "Intellectual Warfighters", who play a huge part in today's war as well as tomorrow's!



PRESIDENT'S CORNER

Since our last edition a lot has happened in RX (ML for those who haven't followed symbology on a daily basis). Dr. Dave Walker, RX Director until recently, has moved on to the Pentagon and is now the Associate Director of Programs, Deputy Chief of Staff for Strategic Plans and Programs, Headquarters U.S. Air Force, Washington, D.C. His primary duties include assisting the Director of Programs in managing, overseeing and directing the formulation of studies, reviews and analyses that support the development of the \$822 billion, six-year Air Force Program. Quite a change and challenge for lab director for sure; but then RX has quite a track record for preparing its leaders for positions of increased Air Force and Industry management responsibility (Al Lovelace, Dick Saxer, Phil Bouchard, Gary Denman, Vince Russo and arguably, yours truly, to name just a few). Of course, there have been many others. Our congratulations to Dave and best wishes on his challenging journey during a time of major transformational change. We had hoped to have introduced the new director selectee by this edition but understand that an announcement is imminent, so that news will have to wait until later.

On a sad note, we note the passing of Jerry Persh, our DOD Materials and Manufacturing Champion for

many years. Fortunately, we made Jerry an Honorary Life Member of AFMMAA at a celebration of his life in May of 2008 in which he was able to participate. Behind the professional contributions Jerry provided (described elsewhere in this newsletter) was a life of friendship, mentoring and personal service to materials and manufacturing people throughout DOD. I was a real beneficiary of his knowledge and experience particularly after I moved to the Manufacturing Technology Division in the 1960s. Jerry taught me about the ways of the Pentagon, the Congress, the budget process and the international scene. He was quite a tour guide in many foreign nations, and highly respected everywhere. He was one of the key influencers of my career path finding and always contacted me after I moved to a new position to see if he could be of any assistance. This continued into retirement as he was interested in the person, not just the role. I and many others will really miss him and his unique insights.

Other happenings/changes of interest:

- All of RX is busily engaged in linking most of the 6.2, 6.3 and ManTech programs to the AFRL capability based "FLTC" construct (Focused Long-Term Challenges). This is a process and taxonomy which

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identifies problem statements, attributes (near-, mid- and far-term), research products and programs which will enable attainment of current and future Air Force missions. Major (usually 6.3 advanced development) demonstrations are tied to this taxonomy, as are other program roadmaps. More basic (6.1) and part of the exploratory development (6.2) program are reserved for "Discovery" efforts not constrained to the FLTCs. I think life might have been a bit simpler in our day, but this process does enable/encourage much more cross AFRL Technical Directorate (former Labs) collaboration as multiple technologies are increasingly required to demonstrate a real Air Force capability.

- Effective this fiscal year, the ManTech program has become funded with advanced development (6.3) vs. prior 7.8 Industrial Preparedness funds. As with most things, there is an up and a down side to this. As with prior attempts at this funding approach, ManTech, being "different" or perceived as such, may suffer in the budget wars with other 6.3 program requirements. Also, the ManTech people have a new mission to perform Manufacturing Readiness Assessments (MRAs) to determine the Manufacturing Readiness Levels (MRL) of selected advanced development and system acquisition programs. When I say new, some may recall the Production Readiness Reviews (PRRs) of the past and our support of the DOD "PESO" office. The present MRA/MRL process is more structured than in the past and more management attention seems to be given to acting on the results. In any event, one does see a bit of "back to the future" in it, hopefully with good results.
- Major facility changes – forthcoming with a major redo of the entrance foyer to the Bldg. 653 complex and many changes to the 4th floor offices of the director. As this is in progress, along with the selection of a new director, we will defer any coverage of this until the next issue.

See you at the Awards Luncheon
and Annual Meeting.

Jim Mattice, President, AFMMAA

THE AFRL/RX HISTORY ROOM

The beginning of the AFRL Materials and Manufacturing Directorate goes back for many, many years, starting with activities at old McCook Field in Dayton as far back as 1917. The history of this activity was very well documented in a volume entitled "History of the Air

Force Materials Laboratory – Five Decades of Materials Progress – 1917-1967" written by James J. Niehaus in December 1967, who was Assistant to the Director at that time. Since that document was published, efforts have continued to insure that the history of the Directorate is preserved. For a number of years, many documents that were available that may have been destroyed were arbitrarily sent to Universal Technology Corporation (UTC) for storage, because many former members of the Directorate have worked there since their retirement from the Directorate and space was made available for them. Because of the concern about the loss of these important historical documents, a contract was finally initiated by the Air Force with UTC in 2001 to create a room where the documents could be preserved and made available for future reference. A room was set aside that could be locked and a stand-alone computer and monitor were provided by the Air Force under the contract along with a series of large file cabinets. The documents, including letters, reports, photographs and various other items, were then put into file folders for storage in the cabinets. The items were put in as they were identified, but not in any chronological order. A number was assigned to the folder and then the contents of that folder were entered into the computer in such a way that a computer search could be made for a particular subject or event and the folder number or numbers identified. The number of items has continued to increase over the years, with well over 4,000 files currently existing. Additional items continue to be received from both RX and from the personal files of former RX personnel. In addition to filing these data, a number of other documents have been generated over the years that help record the significant history of AFRL/RX, including the Military Construction program leading to the design and construction of the current buildings, a document describing Landmark Technology programs from 1960 through 1990, a description of People and Events from 1965 through 1977, and a historical review of the Nondestructive Evaluation program of the Directorate through 2006. Additional historical documents are being considered. Since the number of files available have now completely filled the available room space, additional cabinets are being stored outside the room, but are being kept locked to protect the information available. Fortunately, AFRL/RX has continued to support the existence and maintenance of these historically critical documents.

JERRY PERSH PASSES ON



Jerry Persh

Jerry Persh, who was the inspirational leader of the DOD materials development community for nearly four decades, passed away on November 6, 2008 in Fairfax, VA. Jerry was especially recognized for his service as the Staff Specialist for Materials and Structures in the Office of the Director of Defense, Research and Engineering (Advanced Technology) in the Pentagon from 1967 to 1996. In that influential position, he provided outstanding policy assistance and program guidance to the Military Departments and Defense Agencies. Jerry made many noteworthy contributions to the development of DOD key materials technologies, including composites and laser protective materials. He served as the DOD representative on many critical Government industry committees, including the National Academy of Sciences, the National Materials Advisory Board, The DOD Information Analysis Centers and The Technical Cooperation Program (TTCP). He received numerous awards, both Government and industry. After his retirement from the DOD in 1996, he remained active in an advisory capacity to many DOD initiatives and activities. Jerry is the namesake for the Persh Conference, which is a newly created forum for comprehensive investigation, discussion and discovery of ideas, challenges and opportunities with respect to the role of materials and processing innovation in supporting U.S. National Security. Jerry was made a lifetime honorary member of the AFMMAA in May 2008. He will be buried at Arlington National Cemetery.

HONORS AND AWARDS

A number of RX employees have been presented with significant awards since the last Newsletter. Among those are the following:

- Dr. Barry Farmer, RX Chief Scientist – Honored as a Meritorious Senior Professional by receiving the 2008 Presidential Rank Award, an award approved by President George W. Bush.
- Dr. James Grote, RXPS, was named as an AFRL Fellow.
- Ms. Shanee Pacley (formerly Shanee Houston), RXPS – Will receive the Black Engineer of the Year Award for the Most Promising Engineer in Government, to

be presented by the Council of Engineering Deans of the Historically Black Colleges and Universities and Lockheed Martin Corporation. The award will be presented in February 2009.

- Dr. Audrey A. Voevodin, RXB – Has been nominated for the 60th Arthur S. Flemming Award in the Applied Science and Mathematics category.
- Ms. Marianne Ramsey, RXSA – Received the 2008 Secretary of the Year Award (Category III) from the Federally Employed Women (FEW), Miami Valley Chapter.

CFC KICKOFF

The AFMMAA recently participated in the 2008 Miami Valley Combined Federal Campaign (CFC) Agency Fair/Kickoff event at the Ervin J. Nutter Center held on 1 October 2008 from 1100 to 1300. This event provided us the opportunity to meet directly with the Federal workforce, especially employees of the Materials and Manufacturing Directorate, and inform them of our services, programs and scholarships. Over 100 agencies were provided a table on which to set up displays, materials and favors. Jim Mattice (shown in the photo) and Tom Cooper represented the AFMMAA. It is estimated that approximately 2500 members of the Federal and local government workforce attended. The 2008 CFC is now officially open. The description of the AFMMAA activities is on page 11 of the CFC Booklet and our 5-digit organization number is 85464. All designated contributions will be applied to scholarships.



Jim Mattice busy at work for the CFC Kickoff.

RECENT INFORMATION ABOUT AFMMAA MEMBERS

During the year, many of our members have provided comments for the AFMMAA website regarding their current activities and interests. Here are a few selected comments from the many that may be found at www.afmmaa.com or www.afmmaa.mil.

As of November 2008:

Roger Broadwell, Venice, FL, rgbumb@aol.com. I retired from TIMET (26 yrs) and later from Wyman Gordon (16 yrs). I then consulted for Wyman Gordon and Burpee Seed for 4 yrs. I am now employed part time by the state of Florida as a security guard for the Ringling Museum of Art.

Gordon H. Griffith, Big Canoe, GA ghgriffith@tds.net. I am still active in Big Canoe Chapel choirs (inc. Bells); serving as Asst Scoutmaster & Advancement Chairman for local Boy Scout Troop and president elect of local wildflower garden club which fosters conservation and native plant preservation and rescue.

James Hall, Gilbert, AZ jhall26@coxinet. Left AFML/LLS in 1976. I am now retired from Honeywell Aerospace, Phoenix, AZ.

Dr. Frank Kelley, Sherrodsville, OH fkelly@uakron.edu. I have retired and built a log home on the lake. I continue to consult and have received five major awards this year. The Plaza in front of the Polymer Science Building at the University of Akron has now been named for me.

Dr. William L. Lehn, Dayton, OH, billbilt@siscom.net. I am part time with General Dynamics.

Paul Propp, Hawthorne, CA, pmpropp@sbcglobal.net. Fires, heat and gas prices curtailed summer camping. More than enough work to be done at home and mountain place to keep me busy. Never more worried for our country.

William L. R. Rice, Fredericksburg, VA, wlrice@cox.net. I retired from the Dept of Energy in 1986. I then taught high school physics until 1997. Bill and Joan are retired and living happily in Fredricksburg, VA.

Dr. Harold Rosenberg, Dayton, OH, Immediately after retirement, I went into the travel business from which I booked, during the past 29 years, many AFML personnel, retirees, and contractors on a multitude of vacation and business trips. I retired (for the second time) from the latter in January.

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2009 RX AWARDS LUNCHEON AND NEXT MEETING OF AFMMAA

The 2009 RX Awards Luncheon will be held on Friday, 16 January 2009. This will be the 56th Celebration of this event. The Luncheon will be held in the Stealth Room of the Hope Hotel at WPAFB starting with a social hour at 1100 in the Hope Hotel Ball Room, followed by the Luncheon at 1200. The speaker for the Luncheon will be Gen (Ret) Edward Mechenbier. AFMMAA will acknowledge its three Scholarship Award recipients at this time.

The Annual AFMMAA meeting will be held, also at the Hope Hotel, from 0930 until 1100 the same day.

In addition, there will be a separate Finalists Ceremony for the introduction of all the finalists for the awards, which will be held at AFRL/RX, Building 653 Cafetorium, on Thursday, 15 January 2009. The AFMMAA is providing the refreshments for this event.

DO YOU REMEMBER?

Shown below are the photographs of several RX (then ML) engineers and scientists taken in the 60's. How many do you recognize and remember?

For the answers, see page 8.



A



B



C



D



E



F

(Recent Information About AFMMAA Members Cont'd)

Christ Tamborski, St. Augustine, FL, christtamborski@bellsouth.net. Enjoying Florida six months of the year as resident of the state. I usually come to Dayton to our summer condo (3340 Derbyshire Dr. Dayton OH 45440) to visit family and friends.

Donald O. Tarazano, Centerville, OH, I am a consultant for AFMC/ASC on Health & Environmental concerns for weapons. Areas of direct support: aircraft and runway deicing, environmental and health concerns for nano materials & processes. I co-authored a publication in the Journal of the Optical Society of America, Vol 25, No. 6/ June 2008, "Proposed Form for the Atmospheric Turbulence Spacial Spectrum at Large Scales."

SCHOLARSHIP PROGRAM UPDATE

The AFMMAA received nine applications this year for our Alumni Association scholarship awards. In accordance with this year's change of the rules discussed in the spring scholarship update, all our applicants had a parent who was a government employee of RX.

The scholarship awards are now primarily funded through donations received during the annual CFC drive. Normally the association awards two \$1,000 scholarships per year. However, due to the generosity of those supporting the Association through last year's CFC and other special donations, the association was able to award three \$1000 scholarships this year to the following three individuals:

- **Chief Scientists Scholarship – Andrew Rosenberger.** Andrew is a homeschooled student supplemented with considerable coursework from Wittenberg University. His GPA for the Wittenberg class work is 3.96/4.00. He intends to attend Case Western Reserve and complete a B.S. in Physics within his first two years. After completing the Physics degree, he plans to pursue a graduate degree in either physics or an engineering field. His father is Andrew Rosenberger in RXLMN.
- **Alumni Association Scholarship – Travis Busbee.** Travis is a Carroll HS senior. He has a 4.33/4.00 cumulative average due to Honors courses. In addition to his school work, he works 15-20 hours/week as a General Manager at the local Petlands store. He has already been accepted in the College of Engineering at OSU. He plans to major in Materials Engineering, with a minor in Biology. His father is John Busbee in RXBP.
- **Alumni Association Scholarship - Mary Hannah Sanders.** Mary is a Butler H.S. senior. She is ranked

4/234 in her Butler H.S. class in Vandalia with a 4.37/4.00 grade point average (again due to Honors classes). Mary also works about 15 hours/week in addition to her many school activities. Mary plans to attend Miami University in Chemistry or Microbiology with a goal of becoming a pediatrician. Her father is Jeffrey Sanders in RXB.

The AFMMAA recognized these awardees and their families during the RX Director's Call in the Cafetorium on August 12, 2008. The Awardees, along with RX Director Dr. Dave Walker (left) and AFMMAA Scholarship Chairman Dr. Bob Cochoy (right) are shown in the attached photograph. Checks were subsequently mailed directly to each student's university to help cover their expenses during the fall semester.

Congratulations to this year's scholarship recipients! Since our formation in 2001, we have granted 13 scholarships totaling \$12,500!

Bob Cochoy, Scholarship Chairman



Dr. Walker, Andrew Rosenberger, Travis Busbee, Mary Hannah Sanders, and Dr. Bob Cochoy

NEW AFRL TECHNICAL DIRECTORATES OSCs

<u>Former</u>	<u>New</u>	<u>Directorate</u>
VA	RB	- Air Vehicles
DE	RD	- Directed Energy
HE	RH	- Human Effectiveness
IF	RI	- Information
VS	RV	- Space Vehicles
MN	RW	- Munitions
ML	RX	- Materials and Manufacturing
SN	RY	- Sensors
PR	RZ	- Propulsion
RO	RO	- Chief of Staff

Change effective as of October 1, 2007.

YOUR AFMMAA OFFICERS AND COMMITTEE CHAIRS



Jim Mattice
President



Warren Johnson
Exec. Vice President



Bob Denison
Treasurer



Dick Engman
Secretary



Tobey Cordell
Membership



Tom Cooper
Newsletter Editor



Bob Cochoy
Scholarship
Committee Chair

AFMMAA CONTRIBUTORS AND MEMBERSHIP

The AFMMAA is very fortunate to have a solid membership and contributor base to support our Scholarship giving and yearly operating cost. Since 2007 sixteen members have contributed a total of \$1,710 to the Scholarship Funds. AFMMAA has total membership of 114 members that includes 12 Charter members, 28 Lifetime Members, and up to 80 yearly renewing members. We encourage you to become a Lifetime Member or pay your annual dues for the coming year Oct '08 – Sep '09. Your scholarship contributions and membership dues are essential to support and grow our annual scholarships in the areas of science and engineering to children of AFRL/RX employees. A list of Scholarship Contributors, Charter Members, and Lifetime Members is shown to the right.

AFMMAA Contributors and Membership 10-Nov-08		
Bernard Chasman	Frank Harsacky*	John Rhodehamel
Tom Cooper*	J. Read Holland	John M. Speers
Robert L. Denison*	James Hall	Kathy A. Stevens
Dick Engman	Douglas Hutchens	Gary Waggoner
David W. Fischer*	Kenneth Kojola*	
Gordon Griffith*	Paul Propp*	* Multiple Contributions
Charter Members		
Wade Adams	Craig Hartley	Bob Rice
Bernard Chasman	Bill Kessler	Lynn Trainor
Tom Cooper	Jim Mattice	Ben Wilcox
Gary Denman	James Myers	John Williamson
Lifetime Members		
Mark Anderson	Dave Judson	George Schmitt
Phil Bouchard	Bob Kincses	Don Shrader
Dennis Corbly	John Koenig	George Slenski
Ken Elbaum	Edward Kuhl	James Snide
Larry Fehrenbacher	Cole Litton	Donald Tarazano
Harold Gegel	Michael McCabe	Jon Tirpak
Alten (Skip) Grandt	Larry Parsons	Gary Waggoner
John Henderson	Bob Rapson	Bill Woody
Rob Hull	Vince Russo	
Warren Johnson	Robert Schafrik	

AFMMAA
P.O. Box 341413
Bevercreek, OH 45434-1413

WHERE IS YOUR AFMMAA MEMBERSHIP CARD?

Do you still have your membership card? If you were a single year member, please look at the bottom of the card and see if there is an expiration date. If the expiration date reads 9/30/08, your dues are due for the current year. The annual dues are \$10.00, or a Lifetime Membership is available for \$150.00. If your dues lapse for one year, your membership will become inactive. Our records indicate there are still a number of members who have not paid their 2008-2009 membership dues. We don't want to lose a valuable resource to the Association – YOU!

Please give serious consideration to joining us. Enclosed is a form that can be returned to become an active member.

PHOTO IDENTIFICATION

Answers for Page 5

A) Donald Shinn; B) William Gibbs; C) Julius Teres; D) Walter Trapp; E) Charles Cook; and F) Richard Vossler.

LOSSES FROM THE RX (ML) FAMILY

We regret to inform you of the following losses from the RX Family that we have heard of since our last Newsletter.

Cathy Lovelace	March 2007
Paul Pirrung	July 2008
Norm Geyer	September 2008
Dick Klinger	September 2008
Jerry Persh	November 2008

If you know of any others and would care to share this information, please contact us.

CURRENT RX WORKFORCE

The current size of the RX workforce includes the following as of 31 Oct 08:

a) Civilian Employees	412
b) Military	87
c) On-site Contractors	<u>731</u>
Total	1230

This includes those at WPAFB, Tyndall AFB and other operating locations.



**AIR FORCE MATERIALS & MANUFACTURING
ALUMNI ASSOCIATION (AFMMAA)**

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Telephone -- Home: _____ Work: _____ Fax #: _____

E-mail: _____

Check here if we CAN NOT release mailing address, telephone number, and e-mail to other alumni.

Year departed/retired from RX (ML): _____

Recent information about yourself: _____

What areas would you like to support AFMMAA? (Scholarships, History, Mentoring, etc.)

Membership Category:

Individual - (\$10.00/year)

Lifetime - (\$150.00 one time fee)

Make check payable to: AFMMAA

Return to the following address:

P.O. Box 341413

Beavercreek, OH 45434-1413

(SEE OTHER SIDE)

NOTICE

In order to control our costs and optimize our service to RX and our members, we will only be mailing Newsletters in the future to AFMMAA Members (Charter, Life and Annual). If you have not already done so, please take advantage of this opportunity to fill out the membership form (reverse side) and continue to enjoy our Spring and Fall Newsletters.