

Aerospace Physiology Newsletter



United States Air Force

Words From The Former Chief, Col Al Hartzell

As with many of you, there are several moments in our lives that rank above everything else. For me, my graduation from college, my marriage, the birth of my children, and my promotions immediately come to mind. However, one other event ranks right up there and that will be my time as your Chief. I think back to 1975 and remember being in awe of Col Curry (our Chief at the time). Never in my wildest dreams did I ever think that I would one day be sitting in his position. Now here I am, ready to exit, and wondering about the future of our program. In my estimation, we are on the right track, and as always, we are responsible for our future. Just look at the big picture. We've implemented the HPTT program and although it's been a slow start, we have most of the positions filled and they are starting to make an impact. Even the nay Sayers are seeing the value of the HPTT program. In addition, we've adopted a cor-

porate structure and are making decisions based on Business Case Analysis. That translates very well to civilian practices and your potential marketability in the future. It also gets us at the table within Team Aerospace and that alone let's our voices be heard. Amidst the tragedy of 911 the USAF has seen our HAAMS and HARMs people rise to the occasion and our stock has risen dramatically. In our other practices, we now have a new agreement with the FAA and their funds provide for our stan-eval, U&TW, and APCB meetings. On the other hand, there are always wolves at the door and we must be eternally vigilant. In the past, our strength was our diversity. We must maintain that diversity but perhaps our greatest strength needs to be our flexibility. I say this because technologies such as the Reduced Oxygen Breathing Device (ROBD) and the Reduced Oxygen Breathing Environment (ROBE) are poised to make changes in how we do business. Lasers, fatigue countermeasures,

spatial disorientation trainers, and NVGs are ours for the taking. Even nutrition for aircrews is making some noise and we must be ready to embrace anything that is associated with human performance enhancement. I feel that our training programs are strong but they need to be stronger and flexible to changing times and mission requirements. Lastly, we are about to enter a period where we will lose several of our leaders. This will only be temporary as there are strong officers and senior enlisted waiting for their chance to shine. There is no question that this is the best career field in the USAF. I have been blessed with solid support from each of you and I ask you now to give that support to Col Richardson as she prepares to take on the business of our career field. My hat is off to the men and women of Aerospace Physiology. It has truly been a pleasure and certainly one of the proudest moments of my life. Take care.
Col H

Newsletter Introduction

This newsletter distributes guidance, provides instructional material, addresses important Aerospace Physiology program issues and provides a historical reference.

Please refer to this and past newsletters for information pertaining to policy changes and other guidance on our AP program. A large percentage of requests we receive by telephone on policy questions can be found in past newsletters.

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Words From The Chief, Col Susan Richardson

I feel fortunate to lead the greatest group of enthusiastic professionals in the Air Force. The Air Force Chief of Staff calls this a time of transformation, as we face challenges never faced before. We, in the Aerospace Physiology career field, can be very proud that we have a head start on transformation with our reengineering plan. Team Aerospace has also been evolving for sometime from disease/injury treatment to prevention to total performance enhancement. It's not good enough to have our military personnel just disease-

free, we need them working at their optimal performance physically and mentally. Now more than ever, we need everyone working at their very best.

We play a key part in optimizing performance. Education is a very powerful tool. Protective gear and immunization/medication can protect against some threats but only if our aircrew and troops are knowledgeable and motivated to use them. We are the primary teaching arm of Team Aerospace and we need to expand our excellent training to all warfighters.

The Human Performance Training Teams have made great strides in a short term in this area. I am excited about our future and envy you in the field who directly impact the safety and performance of aircrew and support personnel.

We have a very important job—to continue the high quality physiological training and expand that training to the entire Air Force. Thank you for your responsive support, initiative and dedication. I look forward to working with all of you.



Aerospace Physiology Career Field Manager



CMSgt Santos Navarrette

Words From The AFCFM, CMSgt Santos Navarrette Jr.



ENLISTED MANPOWER AUTHORIZATIONS VERSUS ASSIGNED:

We are currently manned at 94% with 339 authorizations and 320 assigned as of 13 June 2002. The MAPPG for FY03 has 353 enlisted authorizations for a plus up of 14. The MAJCOM consultants and MFMs are projecting the MAPPG enlisted and officer authorizations for FY04-05 to include the HPTTs. We should hold steady at around 350 enlisted personnel. We are manned at 129% in MSgts, 100% in TSgts, and 100% in SSgts. We are also 100% manned in chiefs. We do have a deficit in the grades of SMSgt and SrA. we are manned at 63% for SMSgts and 59% in SrA. In the grades of A1C and below, we are 107% manned.

RETENTION AND SRBS:

Retention continues to be a problem for the AF. The retention numbers for the AF, AFMS, and AP career have not been available due to problems with MILPDS. There is still a SRB of .5% for zones A/B for AP. There is no SRB in this zone C for AP. I will continue to advocate increases for SRBs in zone A/B and will try for SRB in zone C. There will be a review of SRBs in November and the new rates will be released in April 03.

CFETP:

Remember, there is a new CFETP dated June 2001 and is posted on the AFPUBS website. MSgt Crane compiled the changes that were incorporated into the CFETP dated Jan 2001 and sent out a message for pen and ink changes

to the existing document to include a new date for the document of Jun 2001 instead of January 2001.

AFMAN 36-2108, AIRMAN CLASSIFICATION:

The USAF Classification personnel at AFPC approved changes to AFMAN 36-2108, Airman Classification. Some of the changes included adding HPTT verbiage to the specialty summary, human performance issues in the duties and responsibilities area, and completion of the enlisted human performance enhancement (EHPE) course as a prerequisite for the award of the 7-skill level. The new AFMAN has not been posted to the AFPUBS website.

AEROSPACE PHYSIOLOGY CRAFTSMAN COURSE:

The AF has funded the AP Craftsman for FY03, but I am not sure if it will continue to fund the course past next year. AP Craftsman course dates are 4 Nov – 15 Nov 02 and 7 Jul – 18 Jul 03. If funding is not provided after FY 03, the plan is to combine the AP Craftsman and EHPE course, but more to come on that issue.

Note: The current and new AFMAN continue to require the completion of the AP Craftsman course for the award of the 7-skill level.

AEROSPACE PHYSIOLOGY APPRENTICE (APA) COURSE:

I've been working with the APA course supervisor to add new material to the APA course, and will propose the changes to the MFMs at our next U&TW. If the

changes were approved by the MFMs the APA course would increase from 43 to 45 days. The course material proposed to be added would consist of 4 hours of safety, 2 hours of HAAMS, 8 hours of flight orientation, and 2 hours for a block test. The intent is to provide the field with a fully rounded 3-level with an increased knowledge base of the AP business. The schoolhouse has graduated 37 NPS (pipeline) and 7 retrainees, and currently has 11 NPS and 4 retrainees in the APA course. If all the students graduate in September, we will have sent a total of 59 APAs out to the field. The APA courses dates for FY 03 are 15 Oct – 17 Dec 02, 13 Jan – 18 Mar 03, 14 Apr – 16 Jun 0, and 21 Jul – 22 Sep 03.

TRAINED PERSONNEL REQUIREMENTS (TPRs):

The TPR is a statement of gains to maintain programmed manning levels of an AFSC. We have significantly increased the TPR for FY 03 – 05. The TPR includes non-prior service (NPS) and retrainees into the programmed manning numbers needed in a particular AFSC. For the AP career field, we have a projected TPR of 65 for FY 03 that includes 50 NPS and 15 retrainees. The retrainee numbers are based on the need for SrA in the career field. For FY 04, the TPR is 45 NPS and 15 retrainees for a total of 60 and FY 05 has 34 NPS and 15 retrainees for a total of 49.

ENLISTED HUMAN PERFORMANCE ENHANCEMENT (EHPE):

The EHPE course provides AP



technicians the formal training necessary to be productive HPTT members. The EHPE course explains the role of an AP operational support flyer assigned to a wing with multi-place aircraft, and how he/she can aid the primary agency by evaluating mission-specific human performance issues. Prerequisites for the EHPE course are: graduate of B3ABY4M071-000 course; graduate of an approved instructor course; PAFSC 4M071; and other items/activities outlined on the AF Form 623a. A waiver can be requested through the AFCFM for an individual who does not possess a PAFSC of 4M071 if the individual has a line number to SSgt. The dates for upcoming EHPE courses are 31 Mar – 11 Apr 03 and 25 Aug – 5 Sep 03. The AP Craftsman and EHPE courses supervisor is TSgt Sankeralli.

HUMAN PERFORMANCE TRAINING TEAMS (HPTTs):

The following are mandatory qualifications for selection as a HPTT member: career airman; PAFSC 4M071; and graduate of the EHPE course. USAFE HPTT NCOs are due for rotation in the summer of FY03, so those of you who would like to fill those positions keep checking the Enlisted Overseas EQUAL listing. The USAFE HPTT assignments should be selected 6 months prior to the DEROS of the returning individuals. AMC has a need for a TSgt/SSgt to fill the HPTT NCO duties at Pope AFB. AFMC needs a HPTT NCO (SSgt) at Edwards AFB. If you have any interest in filling these HPTT locations please contact your MFM.

HIGH ALTITUDE AIRDROP MISSION SUPPORT (HAAMS):

A request was submitted to HQ AFPC/DPAAD2 (4M0X1 assignment's NCO) to make the HAAMS UTCs special duty. Shaw (4), Holloman (4), Little Rock (2), Andrews (2), Fairchild (2), Langley (4), and Kadena (4) are units that have HAAMS UTCs attached. The number in parenthesis after the bases is the number of positions that have been labeled as special duty and will be advertised in the AFPC EQUAL PLUS system as the positions become open. The HAAMS qualifications are:

1. Two years experience in the USAF AP career field and PAFSC 4M051.
2. Instructor qualified.
3. Experienced in oxygen equipment.
4. Demonstrate proficiency in the ability to recognize/treat physiological reactors.

5. Demonstrate good overall knowledge judgment and maturity.
6. Have an overall rating of three or higher on last three EPRs.
7. Able to obtain three years retainability as of reporting month.

Kadena AB advertised 3 HAAMS positions and was able to get them filled via the EQUAL PLUS system. Fairchild AFB is advertising for a MSgt to fill an open HAAMS UTC. The HAAMS program will be placed into the SPECAT for authorization to submit a formal application as positions are advertised. The special duty positions will be identified by a manning point "E" and will be coded with AAC – 44 which designated 3-year stabilized tour.

OCCUPATIONAL SURVEY REPORT (OSR)

The Air Force Occupational Measurement Squadron at Randolph AFB conducted the OSR in May 02. The last OSR was conducted in Jun 99. The OSR data was collected from Jul – Oct 01 by having certain APTFs fill out job inventories. The OSR is a summary of the analyses that includes job descriptions of work performed within the AFSC, duty AFSC analysis, training analysis, and job satisfaction analysis. The OSR was initiated to obtain data to evaluate current classification and training documents and support promotion test development. AP active duties 3, 5, 7, 9-skills were surveyed with the average time in career field of 9 years. The AP career field was compared to four other AFMS AFSCs e.g., mental health, pharmacy, optometry, and ophthalmology for job satisfaction indicators. The job satisfaction indicators were: job interesting, talents well utilized, training well utilized, sense of accomplishment, and plan to reenlist. The job satisfaction indicators for the AP enlisted personnel were higher than the comparative AFMS AFSCs in all categories.

PROMOTIONS:

Congratulations to the career field's newest CMSgt, SMSgts, MSgts, TSgts, and SSgts. CMSgt David Pridgen is the AP jeep chief. SMSgt (s) Benvendio Delacruz and Brenda Smith are both on their way to becoming

future chiefs. We had a total of 9 MSgts, 11 TSgts, and 27 SSgts selected for promotion this year. The AF has been promoting its people at the highest percentages ever, so if you want to make the next higher grade you need to fill the appropriate squares i.e., education, training, community service, decorations, awards etc (the whole person concept). Speaking of whole person concept, this year's senior master sergeants records review board gave our AP MSgts the highest board scores ever. A special congratulations to SMSgt (s) Brenda Smith for receiving a perfect 450 points on her board score that is the maximum number of points given that indicates to me that she found the key to the whole person concept.

AFCFM and MFMs Conference:

The next MFM and senior managers' conference is planned for late spring 2003. There are many issues that need to be addressed such as: reviewing CFETP, 5-level CDCs, and APA/Craftsman/EHPE courses. If you have any issues that you would like addressed at the MFM/senior managers' conference, please forward them to your respective MFM.

AP ANNUAL AWARD RECIPIENTS:

It was another year of tough competition for the 2001 AF Aerospace Physiology Enlisted Award nominees. If you run across any of our winners, please take the time to congratulate them. The senior NCO of the Year was SMSgt Wayne Smith from Ramstein AB. The NCO of the Year was TSgt Kenton Lee from Brooks AFB. The Airman of the Year was SrA Sunny Siler from Brooks AFB. Again, congratulations to the 2001 AF AP Enlisted Award winners.

FINAL COMMENTS:

If you have any questions on assignments, overseas requirements, special duty, etc. please, give your MFMs the opportunity to answer your questions. If they can not provide you with the information, then give me a call or send an email. I'm never too busy to answer any questions, or try to find the answers to any questions that you all may have.



Command Consultant
 – Maj James Laswell
 Functional Manager
 – SMSgt Wayne Smith



50 Years of Friendship and Freedom
 Ramstein Air Base - 1952-2002



USAFE

Promotions:

- Capt Gary Rice, 48 FW HPTT, promoted to Maj effective 1 Oct 02 (projected)
- TSgt Douglas Schmidt, 31 FW HPTT, selected for promotion to MSgt
- TSgt Mark Brandt, 48 FW HPTT, selected for promotion to MSgt

Hot Issues:

- Certifying and/or formalizing two HAAMS teams (RAF Lakenheath, UK and Ramstein AB, Germany) that will provide short-notice, short-duration support for local training missions. Provides local users needed flexibility to conduct training on a

moments notice (when the weather clears!).

- Manning and qualifications of incoming personnel (3QTR FY03) need to match wing requirements. For example: Folks headed to Ramstein AB and/or RAF Lakenheath need to be HAAMS qualified; Officers filling the RAF Lakenheath and Aviano AB billets need background/expertise in AGSM evaluation; All need to be comfortable/proficient as CRM facilitators.

Lessons Learned:

- Absolute must = advertise, advertise, advertise your capabilities to every wing agency! Constant

personnel turn-over and opstempo requires re-education and engagement to integrate HPTT activities into the wing mission!

- HPTT activities must be integrated into existing training opportunities. Rarely will an organization volunteer an extra 30 - 60 minutes for training.

Examples: Find existing CRM requirement (e.g. ATC), meet with MXG to streamline existing training to capture training opportunity, work with Newcomer's inprocessing to catch newbies on their way in, etc.



Command Consultant
 – Maj (sel) Randy McCalip
 Functional Manager
 – MSgt Joe Montalvo



AFSOC

Promotions:

- Capt Randy McCalip selected for promotion to Major

Hot Topics:

- NVG Training, CRM Training, and Accident Investigations.

Lessons Learned:

- Here I am reading articles like "Two minutes to live or die- Know your equipment", and "The need for Restraint -Aviation Life Support Equipment" (very important issue), but thinking about "AFSOC's Physiological 2002 Goals/ Lessons Learned". Many serious topics this past year have raised their evil heads within the command. Numerous concerns dealing with specific airframes, operators, maintainers, as well as Op's Tempo as you can imagine. What do you deal with first, what's our priority today, this week, this month, this year? We continue to change our objectives, our goals. My high-speed captain mentioned to me yesterday morning, "let's whittle away at the little goals, the little battles and win them, so our replacements will be setup." He's right

- One of the most important "Lessons Learned" we can pass on to your Team is the importance of Goal Setting. Let me try to refresh your memory on one of the most important tools your HPTT Team can do in preparing for success now and setting up the Team who follows you later. Setting goals will provide your Team with a clear road map. I recall a very influential SNCO saying, "Successful individuals, businesses and teams focus on the day-to-day goals and get the most out of each training session so they can climb the ladder and reach their long-term goals and objectives". Your team like ours must be flexible, it's important that your team goals are:

-- **Specific:** The goals you set must be very specific and leave no room for interpretation. Vague goals are like bad directions...you may eventually get there, but chances are it won't be the most direct or efficient route.

-- **Realistic:** Your goals need to be progressively more challenging but achievable. If you set unrealistic goals, like "I want to fly HAAMS

every day, be pressure suit qualified in a month, and signed off on every block of training within the week" this can lead to lack of confidence and motivation. Goal setting should be a positive source of motivation, not something that frustrates you.

-- **Action-based:** "I want to be a better platform instructor" doesn't specify what you need to do to accomplish that. Let me see if I can make this sound right, "You can want all you want, but you must act." Action goals, direct your focus.

-- **Measurable:** Ideally, you want to measure goals objectively (with numbers), but if not, it can be done subjectively by you and your AP.

-- **Time-sensitive:** When your goals are time-sensitive, they have more of a motivational impact. When you assign a target date to finish something, this will also aid in your ability to manage your time better.

- Also, it is best to word your goals in a positive manner. It's not a good idea to use words like "don't" in your goal statements. They will most likely direct your attention to



what it is you are trying to avoid ("Don't fumble about during my briefings"), as opposed to what you want to do. Here are some examples of flexible long and short-term goals we set for ourselves:

- Develop Human Performance Enhancement Training Modules:
- Qualify as NVG instructors

--- Train/Equip personnel to provide the highest quality of Human Factors training.

--- Hold Qtrly training sessions to ensure continuity of all policies and procedures.

- Standardize the performance and duties of all Aero-Medical Safety Personnel:

-- To develop a positive working

integrated team with local flight safety and flight medicine in addressing local training needs.

- Remember, it's the present that gets you to the future. Your Team's long-term goal isn't going to come to fruition unless you back it up with a step-by-step plan of action that you stay dedicated to. Good luck!



Command Consultant
 – Lt Col Charles Caulkins
 Functional Manager
 – CMSgt Dan Bowers

Air Combat Command

**Air
 Combat
 Command**

Langley AFB

October 01 kicked off a very busy year for Langley with the deployment of 4 HAAMS technicians to OEF. Over the past year we've gained some new faces: SrA Clyde Jones (Nov 01) from Brooks, Amn Tom Evers (Jan 02) new to the AF and A1C Isis Lovette (Mar 02) also new to the AF. Additionally, we've bid farewell to

SSgt Ismael Paez (Nov 01) to Kadena, MSgt Don Blackwell (Apr 02) to be a First Sergeant here at the 1 Medical Group. TSgt David Nelson replaced MSgt Blackwell as NCOIC and has done a great job. MSgt Frank Stegemeier is expected to arrive later this month from Beale, at which time he will take on the NCOIC position.

Its been a great year for enlisted promotions at Langley. Recently promoted were A1C Paul Handley (Dec 01), SrA Bianca Fowley (Feb 02), and Amn Tom Evers (Feb 02). Recently selected for promotion were TSgt(s) Steve Ramos, SSgt(s) Mimi Byrd, SSgt(s) Clyde Jones, SSgt(s) 'Mac' MacMahon, and SSgt(s) Donna Pimentel.

SHAW LINK -- The Public Web Site for
SHAW Air Force Base
 S O U T H C A R O L I N A



Shaw AFB

Lt Stout has returned from the UAE and reports having had a super experience with initiating the fitness program for UAE F-16 pilots. But now that he is back, he

is preparing to PCS to Kunsan Korea (departing Sep 02). Our unit has been conducting Phase II testing of the Reduced

Oxygen Breathing Device (ROBD). Testing should be completed by the end of August. No move or promotions to report



TRSS

- ACC recently released an IRC CBT product developed for the ANG. The CBT includes a landing illusion and SDO block of instruction. Taking this CBT fulfills 3 of 4 hours required for IRC. The last hour will be local threats. Currently only the ANG has a waiver necessary to use this CBT,

however at the upcoming ACC realistic training review board there is an action item to consider adopting this CBT throughout the CAF. If incorporated this will knock us out of the IRC business. The product is very good and available to ASPOs for review, contact ACC/TRSS. The 2003

edition of the ASPO tactics guide will include the IRC CBT course for your reference.
 - ASPO tactics guide was mailed to all physiologists. Compilation of the 2003 edition will begin in the new year, please video tape your squadron/wing briefings for inclusion in our next edition.

Offutt AFB

Since the last newsletter lots of changes have occurred. Promotions include: 2 new Senior Airmen Geebio "G" Gargard and Shara (former Davis) Holbrook both by way of BTZ; David Boynton sewed on staff; we have two new TSgt selectees Monica Desjardins, and Tracy (used to be Derby) King; and C.Timmis Winstanley was promoted to MSgt.

Moves, retraining and separations include the entire unit, which was pulled for security detail for the first three months following 9/11. They're back now but it takes awhile to get that trained security forces killer instinct bred back out of them. In fact, AIC Watson was so enamored by the idea

of sitting in a guard shack staring into the empty darkness of the night that she has decided to retrain into security forces. SSgt Boynton likewise is retraining but he decided to be a TI instead. Sra Matt Elyea will soon separate from the Air Force. He plans to settle in the Pittsburgh area. MSgt Winstanley has spent the last 3 months chasing camel spiders and setting up an exercise program for our Army brethren in Abu-Dabi UAE. Then there is the old homesteader who will never PCS our acting NCOIC TSgt Felix Mitchell. We have four new airmen - their names are AIC Chris Helton, Amn Terri White, Amn Michael Richardson, and Amn Alyssa Hurt.

We've garnered several awards this past year. AIC Watson was the 55AMDS Airman of the Year and MSgt Bridges likewise was selected 55 AMDS and 55 MDG Senior NCO of the Year. In addition, SSgt Boynton was named the 2001 ACC Aerospace Physiology Airman of the Year, and just to prove they will give awards to anybody, they defaulted Capt Leimenstoll the ACC APO CGO of the Year 2001.

Those of you "not at Offutt" can expect to receive some first class airmen from us next year as the Offutt Aerospace Physiology Flight remains on the list to be closed in the summer of '03.



Mission:
The 55th Wing is the largest and most diverse wing in Air Combat Command, executing worldwide reconnaissance, command and control, presidential support, treaty verification and airlift missions.



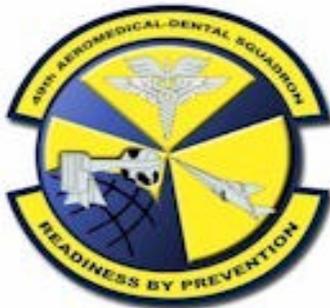
Busy year for Holloman, with many departures and arrivals. Capt Scott Holliday PCS'd to Pope AFB HPTT in Jan ; 1Lt Pete Sherman PCS'd to Dyess AFB in Jul; SSgt Jimmy Sheering will be PCS-ing to Brooks AFB in Aug. 1Lt Rich Farley arrived in May and is currently TDY for APO school; TSgt Torrance Norris ar-

rived in Dec 01 from Kadena; AIC Dacia Chenier arrived in May from Kadena; and AIC Joseph Malone arrived in Jul from Brooks (tech school).

Two Holloman physiology TSgts were selected for MSgt this year - Myron Carson and David Lucas. SrA Sarah Brennan (1T) was selected for

SSgt in Aug.

Significant recognitions have included: SSgt Denise Doll as 49th FW Aerospace Physiology NCO of Year for 2001; SSgt Jimmy Sheerin as NCO of Quarter for ADOS, 3rd Qtr; and AIC Kedrick Palmer as Amn of Quarter for MDG, 2nd Qtr



HPPT In ACC

The following ACC bases have officer HPTT members assigned:

Nellis – Capt Heather Alexander, Ellsworth – Lt Dwayne Porter,

Whiteman – Capt Nereyda Sevilla, Seymour-Johnson – Lt

HAAMS

Chief Bowers

As most of you know by now we deployed 32 HAAMS personnel at different times to Ramstein AB, Germany during Operation Enduring Freedom. These deployments were in support of Humanitarian Airdrops conducted over Afghanistan by C-17's. It was an especially challenging time for our deployed HAAMS personnel, and the units who had to work short-handed while their HAAMS personnel were gone. During my time at Ramstein I was especially proud of our HAAMS troops and their motivation to support the mission, even with the holidays approaching and no firm guidance on a rotation policy. Personnel from CONUS and

PACAF, and several USAFE HPTT's supported 198 combat mission over a three month period ending 23 December 2001. Meanwhile, the HAAMS troops back home were still supporting CONUS and overseas training missions for user groups preparing for possible OEF missions. A fine job of teamwork, and many people stepping up to the plate was highly appreciated by Lt Col Caulkins and me during this stressful time. The readiness and mobility system is very challenging - especially when working across commands, with constantly changing mission requirements. Thanks again to all who assisted.

In February the Langley Physiology Unit and ACC hosted an OEF HAAMS hot wash meeting

where we brought in HAAMS folks who deployed to OEF, and local ACC/SGX and SGP guest speakers. The results of this hot wash were briefed to Col Hartzell at AFMOA, and to AMC HQ. In March, I briefed the OEF HAAMS program at TAOS, in May at the annual AsMA meeting in Montreal and again in August to the AMC JA/ATT Conference.

Some major changes this year have been the addition of 5 new HAAMS UTCs, the coordination and establishment of HAAMS equal plus positions at HAAMS units, and the groundwork for a formal HAAMS training course in the future to supplement current required AFI 11-409 training.





Beale AFB



Greetings and Salutations:

Greetings from sunny (for now!) California! Despite recent changes to the deployment schedule, the completion of a \$3.5M building renovation project and the tidal wave of new technicians, morale is high! We hope the following info gives you a good snapshot of life at Beale.

Moving:

Our building renovation project was completed in April resulting in the consolidation of all squadron services. The upgrades have more than doubled the size of our Suit Maint/Depot area, created dedicated OL classrooms, and even includes our first LOX ball. The pilots are enjoying the new kitchen facility where 9SVS prepares their pre-flight meals. The new 56,000 square ft facility should serve us well for years to come. Check us out online at: www.mil.beale.af.mil/units/9mdg/9pspts/index.htm.

PROMOTIONS:

TO SSGT: Jaime Apadoca, Charles Frye, Philip Gomez, Jon Harry, Sarah Hilgert, Elizabeth Lounsbury, Jennifer McKinnie, Armandos Ramos, Elliot Reed, Kierron Skinner, Kittreal Taylor, Christopher Tuck, Hank Webb, Susan Yerman.

(S)SGT: Peimo Walker, Hope Bell, Amanda Knight, Benjamin Oxner, Vanessa Hernandez, David Webb, Matthew Cook, Oscar Marzette, Kevin Clark, Jason Taylor.

TO TSGT: Candace Chilcoat, Chris Laue (**STEP**), Leon Woodard.

(T)SGT: Johnathan Berge, Willie Burns III, Vicente Obillo, James Eskut.

TO MSGT: Joseph Dunteman, David Rodefer, Bradley Tucker, David Wickersham.

CODE 43 VS CODE 50:

Things you always wondered but were afraid to ask! There may still be some confusion over how people are coded when they come to Beale. For the past few years, people have been tagged with a code 50. This meant they must move after 4 years TOS. The new policy that is currently in place is to assign new arrivals under code 43, allowing troops the option to move after 4 years TOS with the option of extending for a maximum of 4 more years. Bottom line: PCS would not be mandatory at the four-year point as with the code 50.

AIRCREW TRAINING FLIGHT:

The Aircrew Training Flight is growing by leaps and bounds! The 3 levels are pouring in, 14 in the last year with 7 more projected in Nov 02. New airmen are initially assigned to Aircrew Training until they are awarded their 5 level and are then enrolled in a high-speed full pressure suit course lasting nine-weeks. Our OL instructors from Brooks instruct newly assigned personnel in U-2 launch and recovery, basic suit, seat kit and parachute inspections.

ENGINEERING MARVEL:

126 state-of-the-art full pressure suit helmets have been ordered from the manufacturer. Delivery is expected to start in 2006 with full replacement sometime in 2009. The design stems from pilot and PSPTS technician's inputs and will provide increased visibility, added comfort, enhanced impact protection and placement of the anti-suffocation on top of the helmet to reduce the likelihood of water intake after an over-water ejection.

DET 4:

Following the Sept 11 tragedy, 9 PSPTS scrambled to open a new U-2 detachment in support of Operation Enduring Freedom. The detachment (at a classified location) was fully operational within 72 hours of unit person-



nel's arrival. Kudos to all involved!

DIVE, DIVE, DIVE!!!

The U-2 has the highest pilot DCS rate of any airframe in the Air Force. In response to the continuing threat the 9 PSPTS has been funded to purchase 6 new Hyperlite dive chambers. Delivery of the new chambers is expected in Jan 03. To get the Beale staff up to speed on the operations, Brooks will send a team to train the Beale OL instructors in the unique operation of the mono-place



chambers that include the use of LOX ventilators as a primary O2 source. Once trained the OL instructors will begin instructing all deploying PSPTS personnel in the proper operation of the Hyperlites. Once all training is complete the Hyperlites will be deployed to all detachments and allow us to expedite DCS treatment.

AROUND THE BASE:

There have been several improvements to the base as of late. New airmen housing (in place), roadwork

(continuing), and a brand new fire station (under construction) and a new air traffic control tower are just a few of the additions to our already outstanding facilities. The base recently captured the coveted ACC Eubanks Award for outstanding base services for the second year in a row.

*Would you enjoy a unique assignment in Northern California?
Contact CMSgt Lawrence Pablo:*

lawrence.pablo@beale.af.mil





Command Consultant
 – Col Kent Magnusson
 Functional Manager
 – CMSgt William Jennings

Air Education And Training Command

AETC troops have been making significant human performance training contributions to their local wings and flying units in their regional areas. It is critical that all our APTFs find opportunities in their schedules to provide HPTT support while providing first class AFI 11-403 and undergraduate flight physiology training.

Moody APTF is up and running. They have some facility construction



yet to be completed. I visited the unit recently and was impressed with the effort every unit member had contributed to making the Moody unit a success. The unit falls under the operational support squadron; the line likes this arrangement, and the unit is thriving in this environment.

Currently, we have a request into Hill ALC to retrofit all our AETC automated chambers with a manual back-

up system. This retrofit is being done for safety and training flow reasons.

There is not enough ink or time to write the full saga of spatial disorientation trainers. Yes we have moved the ASDD from Brooks AFB to Randolph AFB, and it is now called the ASDT (advanced spatial disorientation trainer). And the saga continues.



Randolph AFB

The Randolph APTF continues to conduct JSUNT classes as well as 11-403 refresher and FAA classes. Since the last newsletter Randolph mission has changed quite a bit. Introduction to Fighter Fundamental courses move to Moody AFB on Jan 2002. ASDT relocate from Brooks AFB to Randolph AFB during Dec 2001- Jan 2002, and became operational on Feb 2002. Currently the ASDT is used to train students from the Advanced Instrument Refresher courses and the Inter-American Air Forces Academy Instrument School students.

The Ejection Seat Trainer was moved to Moody during December 2001 to support the UFT mission.

The Enlisted Aircrew Undergraduate Training (EAUC) program will start during the second week of July. This will increase the training load by up to 1,900 students per year. Program relocation from Sheppard is completed. Program will run under

the support and supervision with the help from the Brooks Physiology Unit.

Program training load for AFI 11-403 refresher/original and 19th AF JSUNT courses is expected to reach up 3,600 students per year by Oct 2003. Total training load including other training like CRM, AIS, PIT, FACT, T-43 Life Support, and Centrifuge will be over 4,600 student/year by the end of the second quarter of FY04.

Current Issues:

- Proposal to increase classroom capacity. Building renovation to increase capacity of classroom 2 to accommodate up to 36 students. Extend Administration/Academics area to accommodate the increase of manpower to support the new missions.

- Proposal to renovate the old "Ejection Seat" room. Second floor will become a life support training room.

Awards:

2Lt Jennifer Lewis:

- 12 MDG CGO of the Quarter Jul-Sep 2001
- 12 ADS CGO of the Year 2001
- 12 MDG CGO of the Year 2001

2Lt Maria Gomez-Herbert

- 12 ADS CGO of the Quarter Oct-Dec 2001
- 12 MDG CGO of the Quarter Oct-Dec 2001

A1C Michelle Lapoint

- AETC Aerospace Physiology Airman of the Year 2001

Promotions:

2Lt Maria Gomez-Herbert to 1Lt

2Lt Jennifer Lewis to 1Lt

A1C Michelle Lapoint to SrA Below the Zone

A1C Brian Collins to SrA Below the Zone



Columbus AFB

Remaining gainfully employed has not been very difficult here at Columbus. Still forging ahead with training JSUPT students, we have also managed to keep busy with AFI 11-403 training as well as FAA. We have also increased our HPTT activities, giving briefings to numerous organizations both on and off base on a variety of different subjects, which has been met with extraordinary enthusiasm. With the summer months rapidly approaching we will once again have some fun in the sun during our early morning DLT and Parasail sessions. That's if the alligators will leave the parasail field once it dries out from our recent bout with some inclement weather. I guess that's why we get Hazardous Duty Pay. As we all know, change is a constant in our lives with the Air Force. As American author Washington Irving once said "There is a certain relief to change, even though it be from bad to worse! As I have often found in traveling in a stage-coach, that it is a comfort to shift one's position, and be bruised in a new place". We have seen some of our outstanding team members depart or prepare to depart for other places. Some are PCSing, some separating and some are going on to bigger and better things with the Air Force. Regardless, all will be missed and all are appreciated for the contributions they made in making Columbus PTU the outstanding organization that it is.

PROMOTIONS/AWARDS:

- Major David Carey selected for

Lieutenant Colonel
 - TSgt Stephen Bachant to present grade in Nov 01
 - SrA Chakea Wilborn to present grade in Nov 01
 - Amn Guennadi Antonov promoted to present grade, ???????
 - Amn Steve McShane to present grade May 02
 - Major David Carey presented the Meritorious Service Medal, Oct 01
 - MSgt Buck Buchanan presented the Meritorious Service Medal, Oct 01
 - 2Lt Lauren Maher won 14 MDG Company Grade Officer of the Quarter
 - MSgt Buck Buchanan won 14 MDG SNCO of the Quarter
 - TSgt Stephen Bachant won 14 MDG NCO of the Quarter
 - SSgt Brent Ochs – won 14 FTW Security Forces Augmentee of the Year
 - SSgt Derick Evans awarded the AF Commendation Medal, May 02.
 - Amn Guennadi Antonov won 14 MDG Airman of the Quarter
 - Amn Guennadi Antonov won 14 FTW Honor Guard Member of the Quarter

MOVES

- Lt Col John Auten will be retiring (as soon as Stop-Loss is lifted!)
 - Captain Lance Annicelli, departed to Las Vegas, NV for **AFIT Masters program??????**
 - SSgt Mario Dacosta PCS to Tyndall AFB, FL, RNLTD May 02
 - SrA Chakea Wilborn PCS to Moody AFB, MS, RNLTD Jun 02 (Like Moody needs more bod-

ies)

- Amn Guennadi Antonov selected for USAFA Prep School, RNLTD Jul 02
 - SrA Cedric Flowers bailing out to attend Medical School, Aug 02
 - Amn Steve McShane arrived on station Mar 02 (Call Sign-Gator Bait)

We have also been fortunate enough to be granted one of the greatest gifts any unit can receive. No, it's not a spatial disorientation trainer that actually works, it is a brand spanning new 3-Level! To this individual we say "Hurry up and learn this stuff" and welcome.

HOT TOPICS

Our primary focus has been to provide the highest quality of training to our customers here at Team Columbus. With recent curriculum changes to just about everything, ensuring the folks we train get the latest information is paramount. Unit personnel conducted review and implementation of new Instructor Guides, Power Point presentations and tests in the most professional manner. Instructors were briefed on the changes and how it will affect the way we do business, and with the quality people we have here, the transition was seamless. And to top it off, we received an "Outstanding" on our Curriculum and Training Standards Inspection back in Sep 01! (Thanks Capt West and MSgt Bean!)
 Lastly, we are still waiting on that darn parasail trailer we or-





dered a year ago! Some folks here are starting to believe that the Randolph unit somehow is thwarting our purchase. We all have seen many drawings of what it is supposed to look like, but much like Bigfoot, no reputable sources can be found to verify that it actually exists. As of this date we still await the arrival of the ever-illusive Skunk Works (long story) Parasail Support Vehicle.

LESSONS LEARNED

Familiarity goes a long way. We ran a passenger class (heavy on physiology) for the Med Group.

Over 30 people, including a squadron commander came for the academics that were broken up over 2 afternoons during the usual weekly training sessions. The goals for offering this training was to provide insight into the rigors of flying (that enhances the Med Groups mission) and to educate on what we do to meet the mission, so it was not necessary for all to get a chamber flight. The major driver was the looming merger of 4N0s and 4F0s and some less than stellar chamber reactor drills. After the training, most of the clinic now has a keen understanding of ear blocks to DCS and respond

quickly and appropriately to our emergency needs.

Operations at a UPT base are often like herding cats. A rain soaked parasail field complete with ducks, winds out of min/max, changes from the flight line can all trash a well crafted schedule. It is essential to have well trained, flexible people ready to adapt at a moments notice. Fortunately for Columbus, that is where we are truly blessed.



Laughlin AFB

Hello from sunny Del Rio Texas! It's been an outstanding year for the folks at the Laughlin APTF. The SUPT machine keeps cranking them out and we keep preparing them to fly. The biggest event on the horizon for the unit will be the addition of the T-6. We expect to see the first ones arrive in July or August for instructor training and we plan to start T-6 student pilot training in November 2002. We are making great strides to accommodate the T-6 students and look forward to the challenges ahead. We would like to extend special thanks to the Moody APTF and Capt Dave Welge for their valuable insight to the T-6 program. We have enjoyed much success here at the Laughlin APTF thanks to an outstanding group of folks who work hard to support the mission. We have been named the "Top Base Organization" by 14 out of 15 SUPT classes this year. We have also seen many of our folks earn individual recognition. We've seen some new faces here in the unit and we are going to see a pretty big turnover this summer. One of our biggest challenges for the upcoming year will be the high turnover of personnel. We have four projected losses with only one in-bound. Even with the large turnover, the Laughlin APTF will always continue it's outstanding tradition of

producing the world's best pilots.

Highlights of the past year:

We've had some outstanding additions to the Laughlin APTF. The energetic 2Lt Jaime Rivas arrived from Brooks AFB and hit the ground running. MSgt Robin Rutzke returned from MTI duty at Lackland AFB to her old stomping ground and is doing an outstanding job as the flight superintendent. And last but not least, AMN Yvonne Watkins who just arrived from Tech School and is already proving to be a tremendous asset to the flight.

Capt Todd Rock was selected as the 47th FTW nominee for AETC CGO AP of the Year 2001 and was recognized by the Association of Military Surgeons for his outstanding work in Flight Medicine. He will be PCSing to McConnell AFB in July 02 in support of HPTT.

1Lt John Latimer won 47th MDG CGO of the quarter for Jul-Sep 01 and 47 MDG CGO of the year for 2001. He will be PCSing to Barksdale AFB in July 02 in support of HPTT.

MSgt Robin Rutzke won 47th MDG and 47th FTW NCO of the quarter for Oct-Dec 01.

TSgt Jeff Walton won 47th MDG NCO of the year for 2001.

TSgt Dora Caniglia is doing an outstanding job as the NCOIC of the Administration section She was awarded the 47 FTW XL'er Award, and was selected to attend the NCO Academy this summer.

TSgt Eric Maye won 47th MDG and 47th FTW Health and Safety Contributor of the quarter for Jul-Sep 2001 and 47th MDG and 47th FTW Health and Safety Contributor of the year 2001. He was selected to perform as a base FTAC instructor and has PCAed to go work for the wing.

SSgt Scott Parker was awarded the AF Commendation medal. In addition he also won 47th MDG and 47th FTW Health and Safety Contributor of the quarter for Jan-Mar 02.

SrA Nate Kerbs has made a flawless transition from the working in the Academics and Training section to the Maintenance section. He will be PCSing to Vance AFB in July 02.

A1C Becky Lederer is doing a great job and is currently performing duties in Al-Jaber Kuwait as a Third Country National



escort. She will be competing for SrA Below the Zone in June 02.

A1C Leanna Grard (AKA Jackson) is performing flawlessly in the Administration section. Sadly, she will be cross training out of Aerospace Physiology and we wish her all the best with

her new career. She is competing for SrA Below the Zone in June 02.

A1C Chris Morlandt was promoted to his current grade and is doing great work in the Maintenance section. He was also selected as 47th MDG Dorm Room of the quarter for

Oct-Dec 01.

A1C Paxton Hicks was promoted to his current grade and is mastering all the tricks of the trade in the Academics and Training section.

MOODY AFB



Moody AFB

All will be happy to know we are no longer shack trash and have a nice big building to call our own here at Moody. The chamber facility was officially completed last October, along with the T-3 Ejection Seat bay. In March, we moved into the main building (80% complete) with two areas awaiting renovation. The renovation of the procedural seat training room is still in a holding pattern, and we will not have our two additional classrooms. The current room for the FACT equipment will be converted into a classroom. The location where the two other classrooms were going to be is being upgraded to an \$80K pilot gym for "Human Performance Enhancement", to include the FACT equipment. As you can see, here on the line we have a budget quite unlike those most chamber units, we actually get what we ask for!

We have started our Joint Specialized Undergraduate Pilot Training (JSUPT) program for the T-6A Texan II, along with teaching Introduction to Fighter Fundamentals (IFF) for the AT-38C model. Now that our program is up and running smoothly, we strongly recommend units scheduled to receive the T-6A send folks to observe the

process. It is a hurdle bringing a new program on-line without having had an opportunity to observe the process first hand. All others are also encouraged and welcome to visit us here at Moody. For those thinking of submitting a package for a Lateral Drift Trainer, we still have all of our design/construction information. This will dramatically speed up the process for you.

A few challenges have presented themselves while being a tenant Training Group on a non - AETC base. There are obstacles simply because host base personnel do not understand what we are doing here or what we require to complete our mission. Slowly but surely we are smoothing over these "speed bumps", but it has been a process none-the-less.

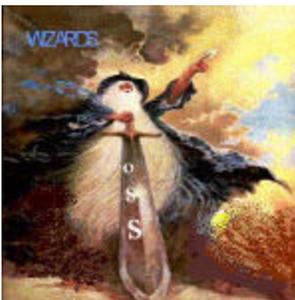
The Behavioral Airsickness Management (BAM) program is underway as well. Guidelines are to teach diaphragmatic breathing as a counter-measure for airsickness. However students in the T-6A are presented a unique challenge in this area. The required G-suit restricts students from utilizing the suggested

breathing techniques effectively. However, we currently boast a zero washout rate due to airsickness. Kudos!

Promotions:
 SrA Angelica Smith - 10 Aug 01
 TSgt Kristine Stewart - 01 Nov 01
 SrA Michael Mazza - 10 Nov 01
 1Lt Quentin Bagby - 12 May 02
 Awards:
 SrA Angelica Smith AF Achievement Medal for Meritorious Service - 10 Aug 01
 Lt Quentin Bagby AF Achievement Medal for Outstanding Achievement - 8 Feb 02
 MSgt Timothy Kepsel AF Achievement Medal for Outstanding Achievement - 8 Feb 02
 AETC AP SNCO of the Year
 SSgt Sonya Couture AF Achievement Medal for Outstanding Achievement - 8 Feb 02
 Maj Anthony Wurmstien AETC Field Grade Officer of the Year

Losses: None

Gains:
 SSgt Mary Beers Andrews AFB MD - 1 Apr 02



Little Rock AFB

It has been a great year here at Little Rock for the chamber. As a unit we received an "Excellent" rating during this year's Health Services Inspection. Individually we have some very sharp airmen. TSgt Julian A. Pacheco was awarded 314 ADS and AETC Aerospace Physiology NCO of the Year. TSgt Robert G. Lowe was awarded 314 ADS NCO of the Quarter. Last, but certainly not least, A1C Kathy N. Martin was promoted to the rank of Senior Airman and was also Airman of the Quarter for the 314 ADS Squadron.

There were several personnel changes this year. We lost Maj David Carey, now assigned to Columbus AFB, MS. A1C Angelica Smith is now at Moody AFB, GA. MSgt Randy Williams moved to Washington DC. TSgt Chip Lee headed to Beale AFB, CA. SrA Michelle Broussard re-trained and moved to Moody AFB, GA. SSgt Timothy Walters went to Brooks AFB, TX. SSgt Elvin Soto is also projected to go to Brooks AFB, TX. Maj Valerie Martindale is expected to PCS to London, England in July. Lt Natalie Riley is slated for a one year tour to Osan AB, Korea that starts in August. We also received a couple of new faces. SSgt Eric Nelson came here from Beale AFB, CA. We

acquired a brand new Aerospace Physiologist from the Academy, Lt. Jennifer Glomb. Brooks AFB also sent us two fiery-eyed airmen from tech school, A1C Rodrigo Vener and SrA Kermille Brown. Lt Col Tim Byrne is projected to arrive here at the end of July. Although we have lost top-notch experience, we have gained a large voracity for learning. The new members of the unit are overcoming the lack of experience with hard work, new innovative ideas, and positive attitudes.

In 2002, we have taken a step up from last year. We continue to hold one UTC, but are projected to add on another. Unfortunately, we have dropped from three qualified HAAMS members to two. We now have two Phys Techs in training for HAAMS. We continue to do our share to support different worldwide missions. Three personnel deployed to Operation Enduring Freedom, accumulating 402.6 combat flying hours. As far as training goes, this year we have 136.9 training flying hours and 357 TDY Man days.

One of the unit's goals for last year was to get more involved at the wing and squadron level. This year a variety of officer and enlisted chamber members have

conducted many different HPTT briefings. We've done 30 Wing and Squadron commanders call briefings, 8 Personal consults, and 4 IRC Spatial Disorientation briefings.

On top of our usual chamber training (TTB, Original, and FAA), the unit has focused our attention on the Behavioral Airsickness Management program (BAM). The problem we were faced with involved communication between the different agencies within the Wing with different roles in the Airsickness program. A BAM team (Lt Riley, Lt Glomb, SSgt Nelson and SrA Martin) worked very hard at creating an airsickness program that is smooth running in all aspects. The process started with educating the flying squadrons, Flight Medicine and the Life Skills center on the process and goals of the BAM program. Our BAM team also discovered that the actual chair training was a bit unorganized, so we pulled out all the stops for new research and brainstormed for solutions. End result: a new, more comprehensive Initial Interview, packets of material outlining techniques for students to take with them, and a lesson plan for each instructor to follow to ensure standardized training. The outcome of this team created a more efficient Airsickness program for the entire Wing.



TASK FORCE ROCK



Sheppard AFB

HOT TOPICS

- HPTT topics being integrated base-wide at commander's calls, emergency room training, and other forums. Formed Human Factors Working Group - Consultant to Wing Safety/CC - First Ever on Sheppard AFB
- Spearheaded ORM initiatives relating to AP career field into USAF Risk Management Information System library by use of computer on-line Total Risk Assessment and Control System (TRACS)...available USAF wide
 - AP Flight Commander aggressively training base leadership on ORM fundamentals and concepts
- Enlisted Aircrew Undergraduate Course (EAUC) transfers to San Antonio
- Provided technical life support expertise and assistance during recent local T-38 aircraft mishap investigation board (Aug 01). Expedited closure of findings.
- Professionally developed, narrated, and presented a 15-minute video tape briefing about altitude induced threats during refresher chamber flight denitrogenation periods.
- APTF recognized by Sheppard AFB newspaper with full-page article about the importance of

aerospace physiology and its interface between the 82d Training Wing and 80th Flying Training Wings

- APTF scheduled to be featured in national television special sponsored by the Arts and Entertainment (A&E) channel about various facets in becoming an air force pilot. Discussed general principles of aerospace physiology. Demonstrated egress procedures and use of oxygen equipment (Nov 2001).
- Provided airfield expertise during NATO Air Chief's visit. Constructed critical air show markers within an explosive ordnance area for designating run-in lines for confederate air force & F-16 aerial demonstrations. Aided in the protection of 500 distinguished visitors by maintaining control of aircraft by use of improvised directed flight paths. (Jun 2001)
- Special note - TSgt Glenn Keith maintained as only SERE position assigned as liaison to AP career field

LESSONS LEARNED

- If your facility has disrupted water service due to a water line break, purge lines running to vacuum pumps by disconnecting pipes at the cut off handle(s) (prior to pump circulation) and connecting a run-off hose to purge lines of dirt and silt that may have mixed at the break. Vacuum pumps are our training life-line and preventative maintenance is key to mission success. We pre-

vented \$80,000 in damage to the facility by calling depot and checking the systems when this happened last November. With the large number of EAUC students trained at Sheppard APTF, this would have resulted in huge training delays and TDY costs for the AF had the facility been used and the pipes not purged.

PROMOTIONS

- 2Lt Steven Dawson to 1Lt, May 02
- SSgt Rodney Morris to TSgt, Mar 02
- SrA Chad Schulze to SSgt, Oct 01
- A1C Wyndi Roebuck to SrA, Nov 01
- A1C Russell Jones to SrA, Jun 02

MOVES (PCS/PCA/Retirements)

- Lt Col Gregory Davis PCA from 80th FTW, Jul 01
- 2Lt Jeff Cathey PCS to Sheppard, Sep 01
- 1Lt Steven Dawson PCS to Colorado State University (AFIT), Aug 02
- A1C Lisa Tetrick PCS to Kadena AB, Dec 01
- SSgt Lori Shackelford PCS to Vance OK, Jun 02
- MSgt Robert Loughlin's retirement, Aug 02
- A1C Trisha Holder PCS to Sheppard, Jul 01 (Tech school-NPS)
- A1C Russell Jones PCA to Sheppard, Mar 02 (cross trained from Air Traffic Control)





Vance AFB



Training over 4400 students last year, Vance continues to be one of the busiest physiological training units. Each year, 450 Air Force, Navy and Marine officers attend one of our 15 Joint Specialized Undergraduate Pilot Training (JSUPT) classes. Once these students have completed the 6-day original class, about 300 will come back to receive additional training in FACT, airsickness management, pre-acro, CRM II and III, and aircraft specific egress during the T-38 or T-1 transition class. Top all that off with monthly TTB and quarterly TARF refresher classes, 173 ROTC cadets, and tours for over 700, it is obvious that this is a busy and challenging assignment. Regardless, our team continues to work well with each other and faces each day with an attitude of dedication and solidarity.

This past year was a challenge as our manning numbers were quite low. Thankfully the tide rolled back in and 2002 is looking better. 1Lt Miranda Hancock and 2Lt Eric Hendrickson are our new HPTT officers in training. They arrived last September and have met all challenges with enthusiasm. 2Lt Christle Peaden was an unexpected surprise that showed up on our doorstep in May 02. She is a new addition to the Aerospace Physiology world and will be attending APO school in Jul. Each of our Lts will be ready to take charge as Capt Pat Gray leaves in July to be a full time PA at Hill AFB. On the enlisted side of the house, Amn Shawn Rose (Jan 02), Amn Allen Smith (Mar 02) and Amn Raul D'Souza (Mar 02) have arrived from the tech-training course and are quickly integrating themselves into the daily operations of the unit. Our gains don't stop there. Arriving in July from Sheppard AFB is SSgt Lori Shackelford and in August SrA Nathan Kerbs

will arrive from Laughlin AFB. Unfortunately, in the midst of all that happiness, a tear must fall as we will lose SrA Christienne DeLand to Moody AFB in Aug.

On the HPTT side of the house, Lt Hancock and Lt Hendrickson designed and distributed brochures on combating fatigue to our deploying members. Lt Hancock and SrA Jermaine Williams presented a Night Vision/Sustained Ops briefing designed specifically for members of one Security Forces Flight. They did such an outstanding job they were invited back to present a briefing for the entire squadron. Both enlisted and officers are assigned to the flying squadrons. That is a good news/bad news scenario. We were excited to get everyone officially attached but disappointed that we were forced to water down the terms of our attachments to far less than we had hoped. Call or email Major Thomas Walker for more information. Major Walker and Lt Hancock have both given flying safety briefs to the T-37 squadrons this year and we anticipate doing many more of those. TSgt Lee Diekmann is the only member on Vance AFB that is certified to conduct Biofeedback Training. This training is done in conjunction with airsickness training to better enable the student to take control over the body. Vance's Airsickness Rotational Training program is acquiring a far-reaching reputation. NAS Pensacola, McGuire AFB and Tinker AFB, have all sent students to our program to overcome airsickness. The program is a great success. All our APOs have published HPTT-type articles in the wing paper. We hope to expand our local HPT program

even further in the near future as our manning returns to near full strength.

The 71 FTW APU not only excels in the performance of their duties, but finds the time to judge science fairs, attend college, and perform SFS augmentee duties. We provide continual support to our local community through safety briefings, performing as Honor Guard members, and volunteering for Special Olympics, March of Dimes, and a variety of other fundraising activities. Our members are involved in AFSA, 71 MDG Booster Club, and the 71 FTW Top 3 and First Six Council. Of course (as with all other APUs), the medical group still depends heavily on us to help ensure all the other "little taskings" are accomplished. Finally, we also find time each week for our "mandatory" PT sessions. We are the Ultimate Frisbee champs of all Oklahoma and you should all consider yourselves lucky that you're too far away for us to come school you in that sport.

Members recognized through formal recognition programs included SrA Christienne DeLand, 71 FTW Airman of the Quarter and 71 MDOS Airman of the Year; MSgt Brenda Smith, 71 FTW SNCO of the Quarter and Distinguished Graduate from the SNCO Academy; A1C Jade Rocha, 71 MDG Airman of the Quarter; TSgt Lee Diekmann, 71 MDG NCO of the Year; AB Raul D'Souza, outstanding FTAC graduate.





Command Consultant
 – Col James Dooley
 Functional Manager
 – SMSgt Manuel Topete



*“Air Force
 flight begins
 with AFMC”*

Air Force Materiel Command



Brooks AFB



USAF SCHOOL OF AEROSPACE MEDICINE (USAFSAM) Col Jim Dooley

USAFSAM/CC (Col Tom Travis) hosted Team Aerospace Operational Solutions (TAOS) 2002, 18-22 March 2002, primarily in Buildings 775 and 160, Brooks AFB, TX. Among the nearly 400 student, supervisor, and instructor attendees, over 40 officers and enlisted aerospace physiology personnel, representing all MAJCOMs, attended the week-long course. Specific 43A and 4M0 topics were presented on 19 March and half-days on 20 and 21 March, with Team Aerospace (Public Health, Bioenvironmental Engineering, and Aerospace Medicine, Aerospace Physiology, and Health Physics) topics being presented on the other course dates. Col Jim Dooley was co-coordinator of TAOS 2002 for USAFSAM, and Lt Barry Reeder and TSgt Kenton Lee, both of the USAFSAM Aerospace Physiology Training Branch (ATTU), served as Aerospace Physiology Course Director and Supervisor, respectively. The location, dates, and number of attendees for next year's TAOS have yet to be determined, although it is likely to be in San Antonio sometime in late winter or early spring.

Hyperbaric Medicine Division, DoD Lead Agent for Hyper-

baric Medicine Col Jim Dooley, Chief

SMSgt Manuel Topete, Superintendent, USAFSAM/FEH and AFMC 4M0X Functional Manager, was selected as the AFMC 4M0X Senior NCO of the Year. He also recently completed Senior NCO Academy. Col Jim Dooley continues to serve as Chief, USAFSAM/FEH, Associate Dean (Aerospace Physiology), USAFSAM, and AFMC/SG Aerospace Physiology Consultant (the latter position was formerly referred to as Command Coordinator).

Col (Dr.) Jim Wright, Chief, Clinical Investigations Branch, was the recipient of the Air Force Association Texas Chapter award as 2002 Physician of the Year. In addition to his recognized expert clinical skills, Dr. Wright continued his promotion of the Emergency Evacuation Hyperbaric Stretcher (EEHS; a.k.a. “Hyperlite” hyperbaric transport/treatment chamber). Besides the two portable EEHS units at USAFSAM/FEH, medical and operational units in PACAF, ACC, and AFSOC all have requested EEHS units to support their operational missions. An EEHS already has been deployed at Johnston Atoll, and Beale AFB's PSPTS and Eglin AFB (AFSOC) also have requested several EEHS units. The valu-

able “treat-while-transporting” capability of the EEHS provides much-needed operational support for high altitude and special operations contingencies. Dr. Wright also co-founded Strategies to Reduce Military and Civilian (Blood) Transfusions (STORMACT), sure to have a substantial impact on management of mass casualties associated with combat or terrorist activities.

Col (Dr.) Ben Zwart, Chief, Clinical Medicine Branch, developed and, with the assistance of Col Rob Bertoldo (FEH; ROBE “subject”), TSgt Allen Gray, MSgt John Bean, and several other members of the Aerospace Physiology Training Unit (ATTU), successfully demonstrated the Reduced Oxygen Breathing Environment (ROBE). This proposed alternative training model for TTB Refresher students borrows the root of its name from the Reduced Oxygen Breathing Device (ROBD) being readied for implementation by ACC physiologists at the TRSS (Langley AFB, VA) and at Shaw AFB. ROBE would allow replacement of traditional vacuum-based training with a mixed-gas training experience that eliminates risks of DCS and barotrauma. The ROBE demonstration not only met its training objective, but its planning and implemen-

tation exemplified the ideals of Operational Risk Management (ORM). The teamed efforts of ATTU and FEH won them the award of the 311 HSW Commander's Trophy for April/May 2002 – the first such award ever for USAFSAM.

Col (Dr.) Robert Bertoldo, Chief, Clinical Operations Branch and AFMC/SG Hyperbaric Medicine Consultant, selected two new physician fellows for the 2002-03 Hyperbaric Medicine Fellowship program. Current plans are to keep one graduate fellow at USAFSAM to replace Dr. Zwart, who is retiring 1 Jan 2003; the other fellow graduate is expected to be assigned to the Air Force's large multiplace hyperbaric chamber treatment facility at the 60 MDG, Travis AFB, CA next summer. Col Bertoldo faces the challenge of maintaining educational and operational readiness of our hyperbaric medical units despite a large turnover of highly experienced officer and enlisted personnel.

PERFORMANCE ENHANCEMENT DIVISION (USAFSAM/FEP) LtCol Bruce Wright

Recent radical changes in FEP signal future growth of the division. **Col (Dr.) Lex Brown** is the new Chief, FEP, and **Lt Col Glenn Hover** (43A) has replaced **Lt Col Bruce Wright**, as Deputy Division Chief. Bruce Wright leaves San Antonio to become the new APTF/CC at Laughlin AFB, TX. **Dr. Stephan Constable** continues to lead efforts in the Center for Operational Performance Enhancement (COPE). The TARGET-Human Performance web site is being overhauled to comply with new web site guidelines. The new web site will likely be named: "Center for Operational Performance Enhancement" or "COPE." FEP personnel continue to partner with AFRL Sustained Operations personnel on developing and testing fatigue countermeasures. **2Lt Dan Wheeler** (43A) continues to assist Dr. Constable in developing the COPE program and assists the Aerospace Physiology Training Branch (ATTU) by lecturing and serving as APO on altitude chamber training flights

HUMAN SYSTEMS PROGRAM OFFICE (311 HSW/YACL)

Maj Dave Cohen (43A), Deputy Program Manager, Life Support Systems, Human Systems Program Office, Human Systems Wing (311 HSW/YACL), Brooks AFB, Texas, continues to manage a 60-person Life Support Integrated Product Team at three operating locations. The IPT develops, tests, and procures new life support capabilities and Air Force clothing. Programs include ejection system modifications, aircrew laser eye protection, integration of the F-22 life support ensemble, and fielding of new uniform materials. The current budget exceeds \$200M. Dave's shop also hosted the 3-day Aircrew Protection Working Group meeting in Bldg 578 (311 HSW/YA) 24-26 July 2002. Maj Paul Gardetto (ACC/TRSS) presented a Wing Physiologist Initiative on 25 July.

SSgt Troy Trevino APA Course Supervisor

The Aerospace Physiology Apprentice course is 43 duty days in length and contains 5 blocks of instruction, varying in length from one week to two weeks.

The course is designed to prepare Airman to become productive Aerospace Physiology Apprentice and provides graduates with 17 CCAF credits. What follows is information regarding classes taught this year and what the future holds for our future Apprentice.

On 12 October 2001, the Aerospace Physiology Apprentice (APA) course commenced with eleven (11) pipeline students. One (1) student was academically disenrolled. Class average was: 82.20%. The Principles of Aerospace Physiology Instruction (PAPI) course commenced with ten (10) pipeline students. Class average was: 92%. Class 011015, graduated ten (10) students with a final average of 84.6%.

On 7 January 2002, the Aerospace Physiology Apprentice (APA) course commenced with twelve (12) pipeline and three (3) TDY students. One (1) student was academically disenrolled. Class average was: 86%. The Principles of Aerospace Physiology Instruction (PAPI) course commenced with eleven (11)

pipeline and three (3) TDY students. Class average: 95%. Class 020107, graduated eleven (11) pipeline and three (3) TDY students with a final average of 90%.

On 13 May 2002, the Aerospace Physiology Apprentice (APA) course commenced with twenty-two (22) pipeline, four (4) TDY, and one (1) Army student. One (1) student was administratively disenrolled, five (5) students were academically disenrolled, and one (1) Army student graduated after block three (3). Class average was: 81.56%. The Principles of Aerospace Physiology Instruction (PAPI) course commenced with sixteen (16) pipeline and four (4) TDY students. Class average was: 91.8%. Class 020513, graduated sixteen (16) pipeline and four (4) TDY students with a final average of 86.68%.

Class 020730 will commence on 30 July 2002. The course has 27 projected students.

Courses offered in FY03 (17.5 students per class)

15 Oct 02 – 17 Dec 02

13 Jan 03 --18 Mar 03

14 Apr 03 – 16 Jun 03

21 Jul 03 – 22 Sep 03

Total number of graduates projected: 70

Projected Course Changes: The course will change from 43 to 45 duty days in length. The course change will take effect on 13 Jan 03. The course material added will include the following: eight (8) hours for a Flight Orientation, four (4) for an Introduction to Human Performance Training, and a three (3) hour addition to the High Altitude Airdrop Mission Support subject.

The 45 day course will entail the following: 30 days for Block 1-4 (APA Instruction), 3 days for Block 5 (BMRT), and 11 days for Block 6 (Principles of Aerospace Instruction – PAPI).





USAF SCHOOL OF AEROSPACE MEDICINE (USAFSAM/ATTU)

It was the summer of 1959 when the School of Aviation Medicine returned to Brooks from Randolph AFB. Brooks became the headquarters for the Aerospace Medical Center on October 1, 1959. Although, the following year brought about the end of an era in aviation history. The last plane took off from Brooks on June 20, 1960. The C-131 "Samaritan" was piloted by Col. L.B. Matthews, commander of Det. 1, 1st Aeromedical Transport Group. The creation of the Aerospace Medical Center represented the initial step in placing the management of aerospace medical research, education, and clinical practice under one command. In recognition of its participation in the United States space program, the school's title was changed to School of Aerospace Medicine in May 1961. On November 21, 1963, President John F. Kennedy dedicated four buildings in the complex that housed the Aerospace Medical Division headquarters and the USAF School of Aerospace Medicine. This would be his last official act before his assassination in Dallas the following day.

Since 1995, the local community has been proactive in partnering with the City of San Antonio and Brooks Air Force Base. The focus is on initiatives that will help Brooks AFB reduce its support infrastructure costs with the goal of retaining missions and jobs that are critical to economic growth in the southern sector of San Antonio. The Brooks City Base grew out of a challenge to "reduce significantly the infrastructure costs...while maintaining or improving the support of Department of Defense missions and personnel." In a historic ceremony conducted on 22 July, 2002 the USAF conveyed the property of Brooks AFB to the Brooks Development Authority of the City of San Antonio creating the first City-Base in the United States. Brooks AFB will remain as the primary tenant while opportunities for academia and business will be developed on the prop-



erty to promote economic growth in the community.

For over 40 years USAFSAM has continued to remain on the forefront of medical research and education. The Aerospace Physiology instructor staff delivers instruction to over 16 AFSC awarding courses ranging from Critical Care Air Transport personnel to the Aeromedical Apprentice Course. Along with Randolph APTF, USAFSAM/ATTU will begin providing initial Aerospace Physiology training to all USAF enlisted aircrew. Other USAFSAM initiatives, such as Learnline, will soon become a mainstay here at the "school house". USAFSAM and designated ATTU instructors were selected to become virtual internet "web-based" instructors. These individuals will have the capability of delivering a classroom lecture on any given subject via a computer terminal and a microphone. Recently, our instructor staff began flying with the Flight Nurse/Aeromedical staff and students, on operational training missions. The missions are based out of Randolph AFB and Kelly USA, and are approximately four hours in length. Briefings on cabin pressurization and oxygen equipment are provided on-board C-141 and C-130 aircraft. The program has received many accolades and continues to be an overwhelming success. USAFSAM/ATTU is very unique and continues to remain diversified in all areas of the USAF Aerospace Medicine arena. No matter what the lesson or mission may be, Operational Risk Management, Aircraft Mishap Investigation, or Operation Enduring Freedom, our highly motivated instructors are dedicated to completing the task at hand. Our professional instructor staff and their unique talents will continue to enrich the Team Aerospace concept now and for many years to come.

Lt Col David A. Self – Chief, Aerospace Physiology
1st Lt Barry R. Reeder – OIC, Aerospace Physiology
MSgt John D. Bean – NCOIC, Aerospace Physiology

Promoted to current rank:

TSgt Ronald Sankeralli – Jan 02
SrA Christina Rivera – Feb 02
Major Norman West – Apr 02
1st Lt Barry Reeder – May 02
A1C Dawn Fojtik – Jun 02
MSgt Carl Crane – Sep 02

Awards:

A1C Fojtik - 311th Human Systems Wing Dormitory Room of the Quarter, Jan – Mar 2002
A1C Fojtik - USAFSAM Airman of the Quarter Apr – Jun 2002
A1C Klotzman – USAFSAM and 311th HSW Airman of the Quarter, Jan – Mar 2002
A1C Nelson – USAFSAM Airman of the Year, 2001
SrA Siler – Aerospace Physiology Airman of the Year, 2001
TSgt Lee – USAFSAM, 311th HSW, and Aerospace Physiology NCO of the Year, 2001
A1C Walker – 311th HSW Honor Guard Saber Award, Jul 2002

Unit Awards:

USAFSAM/ATTU presented the 311th HSW Commanders Trophy in support of the demonstration and validation of the Reduced Oxygen Breathing Environment (ROBE) chamber flight.

Gains:

TSgt Brian Lawrence – Peterson AFB, CO – Nov 2001
SSgt Tim Walters – Little Rock AFB, AR – Mar 2002
Lt Col Glenn Hover – Peterson AFB, CO - Jul 2002
SSgt Elvin Soto – Little Rock AFB, AR – Aug 2002
SSgt James Sheerin – Holloman AFB, NM – Aug 2002
TSgt Barry Cook – Osan AB, KO – Sep 2002
Capt James Allen – Kunsan AB, KO – Sep 2002

Losses:

MSgt Ted Burgess – Kunsan AB, KO – Feb 2002
Major Norman West – RAF Henbur, England – May 2002
Lt Col Bruce Wright – Laughlin AFB, TX – Jul 2002

U.S. Citizenship:

SrA Jefredes Price became a

United States citizen on 21 Feb 2002

Hot Topics:

Brooks Aerospace Physiology began the year with a newly implemented program. ATTU instructors have logged over 40 hours of oxygen equipment and cabin pressurization instruction aboard C-141 and C-130 aircraft. Personnel are scheduled to fly with USAFSAM's Flight Nurse and Aeroevacuation students during operational training missions. The flying time has increased our younger instructors experience levels and has given each of them the opportunity to view flying operations from a whole new perspective. ATTU surroundings changed tremendously during the month of January, with the departure of the Advanced Spatial Disorientation Trainer. ASDD field technician support was provided by Mr. B.J. Frende for over 10 years. Mr. Frende's vast knowledge of the ASDD systems and expertise were very much appreciated. Thank you for support. The ASDD now calls the 12 ADS/SGPT, Randolph AFB home. MSgt Bean, TSgt Crane and TSgt Lee provided Randolph staff members initial indoctrination training on the systems and lectures. When required Brooks AFB Aerospace Physiology will continue to support the ASDD program during manning shortages. On 19 November 2002 Brooks Aerospace Physiology will begin supporting the USAF Enlisted Aircrew Undergraduate course. An academic partnership has been formed between Randolph APTF and USAFSAM/ATTU. Students will receive initial physiology academics via Randolph APOs at their technical school headquarters, Lackland AFB, TX. Once this aspect of training is completed students will be transported to USAF-

SAM/ATTU to receive all enlisted physiology academics and qualification chamber flights. Five classes are scheduled for fiscal year 03. TSgt Fran Sims in March was officially appointed as the 311th HSW Education and Training Manager. She will be temporarily manning this position until the end of August 02, until her permanent replacement arrives. The Brooks Education Office has been very appreciative TSgt Sims and her support over this period of time. During the month of April USAFSAM Clinical Hyperbarics and Aerospace Physiology joined together and conducted a demonstration and validation of the Reduced Oxygen Breathing Environment (ROBE). ROBE demo/validation was planned and conducted by Col (Dr.) Benton Zwart. ATTU personnel were used as inside/outside crew members during the simulated altitude chamber flight. Col (Dr.) Robert Bertoldo participated as the student during the flight. All planned objectives were met, and the flight was uneventful. Depot level maintenance has been projected for Sep-Oct 2002. Hill AFB Depot will acquire and install two Kinney 1350 vacuum pumps at Brooks AFB.

Lessons Learned:

Well another year of inspections has come and gone. The Curriculum and Training Standards (CATS) Program is alive and well, inspecting five units during FY 02 and seven during FY 01. We appreciate all of our volunteer inspectors who gave of their time to assess all of these units. We all seem to be pretty much on the same sheet of music in regards to the use, storage and maintenance of the standardized curriculum. By the inspection results we also still have many skilled and experienced per-

sonnel delivering the academics.

The area where we seem to find deviation, or maybe differences, is in the administrative and management of each units program. There were those that met the standard, and then those who excelled or went above the standard. Our objective has been, and always will be, to recognize those "better practices" and get the information out to the field for their own implementation or mirroring of what is done. We then provide the best product available, not just to our students but our entire staff. The following are those units who excelled in certain areas:

Beale

- Detailed OI covering re-certification for instructors

Columbus

- Personnel missing instructor meetings receive one-on-one training
- Impeccable maintenance of instructor folders
- Excellent instructor qualification checklist

Langley

- Excellent unit CATS inspection binder
- Flight discrepancy tracking record

Peterson

- In-Service education "Best in AP field"
- Unaided night vision training during TTB "Best seen"

Tyndall

- Outstanding OI covering CATS





Air Force Research Laboratory, Biodynamics & Protection Division (HEP)

Hello once again from the Biodynamics and Protection Division, Air Force Research Laboratory (AFRL/HEP) at Brooks AFB, TX. Here at Brooks AFB we deal with the human element and factors that either degrade or enhance aircrew performance. A few areas we are responsible for include fatigue issues, fatigue countermeasures, altitude decompression sickness, hypoxia, oxygen equipment, acceleration, and the testing & evaluation of protective equipment. We are a unique combination of civilian & military personnel working together to ensure that quality research is conducted. Our primary goal is to provide information and guidance to enhance human performance, develop quality protective equipment, and help to implement new protocols & procedures. Ultimately we strive to provide quality products & procedures that will help to reduce all classifications of mishaps. The research conducted at this facility has one purpose – to protect our aircrew from threats in the human performance arena.

In this year's update I will try to give a brief overview of projects conducted over the past year, the customers we serve, and most important the impact we have had on the operational air force. Let's start by telling you who the "lab rats" are and a bit about their areas of responsibility.

AFRL/HEP Aerospace Physiologists

LtCol Sean Scully, the "New" Deputy Chief of the Biodynamics and Protection Division and is responsible for the daily operations of the entire division.

LtCol Thomas Morgan, who has served for over ten years as the liaison on life support equipment between AFRL/HEP and the 311th Human Systems Wing will retire on 30 Aug 2002.

Maj Robert O'Connor is the Branch Chief for the Protective Systems Research Branch (HEPR).

Capt Julia Sundstrom, Chief of Altitude & Acceleration (AAO) for HEPR.

Capt Rhodora Beckinger, who was assigned with HEPM's Warfighter Fatigue Countermeasures (WFC) Team, has left our career field to start medical school at the University of Houston.

AFRL/HEP Aerospace Physiology Technicians

MSgt Stan Skou is the "new" NCOIC of AAO and will be replacing MSgt Charles "Mac" McGlothen.

TSgt Kevin "KJ" Johnson, NCOIC Logistics.

TSgt Bill Tucker, NCOIC Operations

TSgt Danellia Chappell, NCOIC Maintenance

SSgt Amber Honeycutt, NCOIC Scheduling

AAO's Airmen are SrA Tara Hoffman, and A1C Leo Funchess

Lab Rats in Action!

Now for the overview of what the "research geeks", as you operational phys guys call us...have been up to over the last year.

Protective Systems Research Branch (HEPR)

HEPR is responsible for the daily operations of both the altitude and acceleration research conducted here at Brooks AFB, TX. We support both altitude and acceleration research projects that are requested and directly financed by ACC, the Systems Program Office (SPO) of the 311th Human Systems Wing, US Special Operations Command (USSOCOM), NASA, and a variety of additional customers requiring applied research and test & evaluation of life support equipment.

Update on High Altitude Protection Research

The Dr. Andrew Pilmanis, Dr. Jim Webb, Dr. Ulf Baldin, Mr. Jim Carlile & Ms. Heather Alexander, are busy finishing up some impor-

tant protocols for NASA & USSOCOM. These projects are in direct support of the International Space Station astronauts, U-2 aircrew, and CV-22 aircrew.

In FY 2002, we will be starting two new protocols both of which will have 'real world' implications. The first should answer a question many have been asking for years - "Will a break in pre-breathing actually increase the risk of decompression sickness?". The second protocol is sponsored by AFSOC and is directly related to the effects of low-grade hypoxia on cognitive & visual performance – more to come when the information can be released.

Update on Oxygen Systems

Although there are no Aerospace Physiologists or AP Technicians directly assigned in this group it is still directly supported by all of us at the Brooks research lab. Mr. George Miller, an engineer with over 15 years of experience in R&D for all types of oxygen systems is the head of this section. He is still busy solving oxygen systems issues for the CV-22, T-6, and a variety of USSOCOM aircraft & aircrew.

Flight Motion Effects Branch (HEPM)

Dr. William Storm has given over the reigns of his research branch to Maj (s) Brad Doan. He is now enjoying being a member of NTI (as a contractor) because he can finally get down to work and do some research! Maj(s) Doan will be quite a busy with all the research conducted in acceleration, and fatigue countermeasures both of which currently fall under his branch/division.

Update on Acceleration Research

The research conducted over the past year has included two G-induced loss of consciousness studies directed by the Operational Test and Evaluation/Live Fire Test, Office of the Secretary of Defense. A third related study is currently in

process and will be completed in time to be presented at next year's Aerospace Medical Association (AsMA) meeting. There are additional projects being conducted in the area of performance. One of which is in conjunction with the Warfighter Fatigue Countermeasures (WFC) group. It is being done primarily to assess performance for deploying aircrew and their use of "Go & No-Go Pills" and the research is being conducted...at 0200 – yeah we're tired!

Update on the WFC Group

I want to personally thank some fellow Aerospace Physiologists: Maj Joe Balas, Capt Stacy Benedict, Capt Dan Roberts, Capt Nereyda Sevilla, and Lt Dan Wheeler. They provided valuable input for the Air Expeditionary Force Battlelab & AFOTEC during their recent evaluation of the Fatigue Avoidance Scheduling Tool (FAST).

I was tasked by the WFC group to act as the liaison between the research lab, Aerospace Physiology and AEBL/AFOTEC for the evaluation of this tool. I know that without these phys guy's support and willingness to participate I would not have been able to complete this task.

The FAST software program, still in its infancy, was evaluated in three separate occasions to determine its effectiveness

in an operational setting. The first evaluation conducted by AFOTEC & WFC group was used to determine desired vs. real outcomes during a C-17 deployment from Charleston, SC. The second evaluation by the AEBL & AFOTEC used a detailed survey with Aerospace Physiologists: Maj Balas, Capt Benedict, Capt Roberts, Capt Sevilla, & Lt Wheeler. The final evaluation of FAST brought the aspect of pre-deployment planning in to the picture using the 'real world' C-17 deployment data. Lt Wheeler & myself and we were asked to build FAST schedules using the data from the deployment and determine if pre-planning might help on regularly scheduled missions. All three of these evaluations were used to determine FAST's applicability for our HPTT fatigue avoidance schedulers and the aircrew we support. The results are going to be released in a final report form AFOTEC in September 2002. I am positive that anyone who is interested may obtain a copy from either AFOTEC or WFC group here at Brooks AFB.

AFRL/HEPR New Accessions & Departing Personnel

TSgt Robinett cross-trained, Mar 02
 LtCol Scully arrived from Kunsan, Jun 02
 LtCol Fisher departed for USAFA, Jun 02
 Capt Beckinger left for Med School, Jul 02

MSgt McGlothen retires, Nov 02

Awards & Promotions

Capt Sundstrom CGO of the Quarter, Mar 02
 SSgt Honeycutt NCO of the Quarter for Honor Guard, Brooks AFRL & AFRL/HE Overall, Mar 02
 SSgt Chappell promoted to TSgt, Jul 02

AFRL/HEP Points of Contact

Altitude Research
 Dr. Andrew Pilmanis
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 Com: 210-536-3247
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Oxygen Systems
 Mr. George Miller
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Acceleration Research
 Dr. Paul Werchan
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 paul.werchan@brooks.af.mil

Fatigue Countermeasures
 Dr. James Miller
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 Com: 210-536-3596/6371
 james.miller@brooks.af.mil

Wright Patterson AFB

AFRL/Human Effectiveness Directorate (HE): Col Rocky Calcotte (43A) continues to function as Deputy to **Mr. Jim Brinkley, Director**, Human Effectiveness. He anticipates reassignment in the spring of 2003.

The Custom Mask Shop: The Custom Mask Shop (CMSS) at W-PAFB currently is developing the MBU-12/P mask for custom fit of USAF aircrew not properly fit by off-the-shelf mask sizes. Custom production of the MBU-20/P used with COMBAT EDGE is anticipated in the near future. The CMSS is currently a 2-man shop with **Mr. Harold Pool** and **TSgt Okey Ooten**

Recently the new MBU-12/P-20/P hybrid custom mask process was transferred to the CMSS from

Brooks AFB. The process has a ways to go to be fully operational. The CMSS is experiencing delays that we were not aware of until we started to produce the new mask. If you have custom mask needs, contact TSgt Ooten or Mr. Poole at:

Custom Mask Shop
 74th AMDS/SGPT
 2290 Monahan Way, WPAFB
 OH 45433-7007

Wound Healing and Hyperbaric Medical Center (WHHMC): The former W-PAFB Hyperbaric Treatment Facility, now operated by **Oxy-Heal, Inc.**, a subcontractor to Kettering Medical Center, under a CRADA, is finalizing an IRB-approved clinical research protocol to test the efficacy of hyper-

baric oxygen (HBO) therapy in the treatment of cerebral palsy (CP). CP currently is not an accepted indication for HBO therapy. The study should start in August and will take approximately two years to complete. Although the USAF Hyperbaric Center (USAFSAM/FEH), Brooks AFB is not directly involved with the WHHMC's clinical or research activities, as DoD Lead Agency for Hyperbaric Medicine, it will continue to monitor clinical and research operations and provide staff assistance oversight, as needed.

HQ AFMC/SG. Col Bill Seignious continues as AFMC/SG. **Col Chuck Fisher** (HQ AFMC/SGBA) is the aerospace medicine functional (DSN 986-3640)



Warriors Supporting Warriors

Edwards AFB

Human Performance Training Team (HPTT)

Greetings fellow HPTTs, chamber units, deployed physiology personnel, and special duty volunteers. With the recent departure of **SSgt Moore-Ritchie** to Fairchild AFB and the upcoming PCS of **TSgt Ledgewood** to Beale AFB, the "One-Man Show" is headlining once more! Seriously, I wish them the best at their new assignments. They will be missed.

Our baseline year at Edwards has progressed very well. We provided 127 briefings to over 3,100 personnel. The team supported 16 physiology courses, 23 shop visits, 3 field visits, 26 consultations, 242 liaison visits, and provided expert analysis of HP risk for 310 personnel during 14 human performance/risk management assessments.

We are integrated into the Aerospace Medicine Squadron with liaison visits, field visits, and shop visits on a regular basis. Recurring briefings are established with Airmen Leadership School, In-processing, First Term Airmen's Center, Commander's Call briefings (Flying Squadrons & ABW), IRC In-

struction, and Wing Safety Meetings, and ORM support. The HPTT concept is slowly spreading around base by word of mouth. We are receiving more and more requests for briefing support.

We are currently working with Aerospace Medicine on the base Airsickness Program. We are in search of a Barany Chair to support our airsickness management program. If you know where we can acquire one, give me a call please. (DSN 525-3372)

Our unique assessment and consultation programs are progressing well. The assessment program has provided a flexible tool for commanders to support test and mission needs. The first year has yielded the following unique consultations: F-22, F-15, C-130J, C-17, Climactic Lab, and the Airborne Laser. Recurring assessment of ALS students has proven to be very popular. Other assessments occur upon customer request.

Other support program initiatives such as flight doc referrals, AGSM support, Safety Review Boards, AFI 11-403 Instruction, and ORM tracking/education are in place and being utilized on a customer needs basis. Although initially

denied capability to engage base level CRM, NVG, and HUD review support, we have not given up on these programs.

If you have any HPTT questions or you need materials please contact me. I have talking papers, road maps, support material, and a basic strategy for newly assigned HPTTs. Although I am far from being the HPTT master, I am ready, willing, and able to help anyone who would like assistance.

Capt Stacy Benedict

AFMC AP Consultant Notes:

Capt Stacy Benedict and the NCO who will be assigned to replace SSgt Moore-Ritchie and TSgt Shannon Ledgewood form AFMC's only HPTT; however, additional manning authorizations for HPTTs have been established at **Hill AFB** (75 AMDS), **Eglin AFB** (96 AMDS), **Tinker AFB** (72 AMDS), **Robins AFB** (78 AMDS), and **Kirtland AFB** (377 AMDS) over the next two years. Hill AFB and Eglin AFB will be the first to acquire HPTTs, hopefully in FY03.



Agile Combat Support



Air and Space Superiority



Precision Engagement



Rapid Global Mobility



Global Attack



Information Superiority



Command Consultant
 – LtCol Joseph Balas
 Functional Manager
 – MSgt James Runels

United States Air Force Academy



Peterson AFB



PROMOTIONS/AWARDS:

2ND LT Nathan Maertens to 1st LT
 Amn Ashley Reynolds to A1C
 AB Bobby Pluneda to Amn
 TSgt Harris Elgie to MSgt
 TSgt John O'Brien to MSgt
 Maj Joseph Balas selected to LT
 COL

MOVES:

TSgt Lawrence moved to Brooks
 AFB TX

SrA Foulk cross-trained into a
 space operator

Captain Garcia was medically dis-
 qualified and returned as a Physi-
 cian's Assistant at Peterson AFB
 CO

SrA Noll is medically disqualified
 and projected to re-train

SrA Kafi separated from the Air
 Force

MSgt Casale retired in June 2001

NEW ARRIVALS:

MSgt Doug Runels is now our
 superintendent

Amn Bobby Pluneda arrived in
 January from tech school

SrA Ibrahim Conteh came in Au-
 gust 2001 from Andrews AFB
 MD

SSgt Idalina Gomes (Allen)
 transferred from Randolph AFB
 TX

SrA Jay Colvin came in July
 from Fairchild AFB WA





Command Consultant
 – Maj Rick Fofi
 Functional Manager
 – MSgt John Busby



Kadena Air Base

Okinawa Japan

Kadena AB

PACAF CONSULTANT:

It's been a great year in review. As you will see in the following paragraphs, PACAF Physiology has been paving the road to many successes. Our goals could not have been met if it wasn't for the awesome Aerospace Physiology team. For that reason we want to mention those that we have lost to gaining units and welcome those that stepped up to the plate to continue on with the PTF mission. We said Sayonara to TSgt Curtis Chiles, TSgt Torrance Norris, SSgt Jeffrey Gilbert, SrA Stephanie Dove, SrA Brian Collins, A1C Dacia Chenier, A1C Lisa Tetrick, and last but not least we will be losing MSgt Michael Akins. That's a lot of force to lose in one year, but our eager and energetic newcomers softened the blow. In the last year we have welcomed 1Lt Elizabeth Fontenot, SMSgt Bienvenido Delacruz, TSgt Charles Hodge, SSgt Heather Tevebaugh, SSgt Ismael Paez, and SSgt Calvin Jones. I urge you to take a moment to read the following paragraphs and get an idea of PACAF Aerospace Physiology's current endeavors.

PACAF FUNCTIONAL MANAGER:

It certainly has been an interesting year. Folks have learned many new things. Our HPTTs are off and running, the PACAF Parachute Program is at full speed, HAAMS has re-defined its parameters (with war experience). We truly are becoming operationally oriented. Ask the Kunsan HPTT duo how awesome it is to

live on the pointy end of the spear. What we're living is a great moment in our careers and lives. We have the opportunity to serve our countries *and* gain experience so we can teach our fellow Airmen to avoid human performance pitfalls. If we save one life or prevent one costly mishap with our sacrifices, we've done a great service. Keep up the awesome work PACAF Warriors!

"Blue Skies"
 MSgt John Busby

NVG Center of Excellence:

CAF (That's Combat Air Force for you non-operational types) is moving to more night operations. In response, the 18 PTF recently stood-up the first ever Physiology Night Imaging Threat Evaluation laboratory complete with Night Vision Terrain Board and all accessory training materials (NVGs, Hoffman, and dark room) for PACAF aircrews. Initial and refresher academics will commence this FY for all PACAF NVG MDS'. Weapon specific filming media is being produced to support F-15/HH60 NVG briefs (More weapons systems to follow). The Night Witness 2000 NVG Camera is being procured to support NVG sorties. This excellent tool will provide crosscheck feedback and site picture info to IP's, students, and NVG instructors alike, from the pilot perspective. This enormous project has the support of 3 & 4 stars. If you have questions on the development of the NVG "Center of Excellence" program, contact Major Rick Fofi or 1Lt

Kathy Childs.
 Kadena is the place to be. BE ON TOP OF THE WORLD!!!

PROJECTS:

The 18 PTF's facility renovation project has been completed. We moved back in July with the building outfitted in a new furniture package. For those of you who have been to Kadena before, you will hardly recognize our new digs.

HPTT:

Over the last year, we have leaned forward in HPTT initiatives. Our staff has shadowed units around the wing including Security Forces, the Fire Department, ATC, flight line crew chiefs. Additionally, we have stepped up our enlisted familiarization flight program, garnering rides in the F-15, KC-135, C-130 and helos.

DEPLOYMENTS:

MSgt Busby, MSgt Akins, and SSgt Paez were deployed to Ramstein AB in support of Operation ENDURING FREEDOM. Collectively, they flew 39 missions over Afghanistan with over 570 flying hours.

AWARDS:

18 AMDS won the 2001 Air Force Team Aerospace Award. MSgt Busby was selected as PACAF's 2001 Aerospace Physiology SNCO of the Year. 1 Lt Kathy Childs won the 18th Wing CGO of the Quarter for Jul-Sep

2001 and she was also named the 18AMDS CGO of the Year 2001.

PROMOTIONS:

1Lt Elizabeth Fontenot, 31 May 02, 1Lt Kathy Childs, 16 Jun 02,

and SSgt Calvin Jones 1 Jan. 02. SSgt Gina Francis earned a line number for TSgt and SrA Annie earned a line number for SSgt. We can't forget to mention that one of our own is crossing to the other side...MSgt Michael Akins

HPPTs Around The Rim (PACAF)

MISAWA AB, JAPAN

"Konnichiwa" from northern Japan and the world of HPTT. Operational for almost one year, we are moving in the right direction. There were a few muddy valleys in setting up Misawa HPTT, but the team engaged "four wheel drive" and pressed forward with the goal of establishing the BEST HPTT in the Air Force. Until Capt Roberts' arrival, TSgt Acron took on a secondary AFSC as a J4A01; records clerk with jump wings, screening/checking in patients at Flight Medicine. Although not thrilled with the idea, he gave 110% and received recognition as a "Medic Award" winner for his exceptional performance. Capt Roberts finally arrived mid Sept to complete the team, but it was short lived. TSgt Acron served for six weeks as a commercial searches and security detail on vehicles entering Misawa. TSgt Acron, although not thrilled, again gave 110%. He did such a great job that they kept him for a extra two weeks to train new personnel. Meanwhile, Capt Roberts hit the ground running, got right into 13th /14th FS teaching NVG academics, Nutritional Supplements at First-Term Airman's Center and providing individual fitness counseling for wing personnel. Also "JD" was welcomed with open arms into the 14FS. Sgt Acron finally returned mid-November to complete the team. The team had secured office space within the MDG, although half of a patient waiting room, it was a place to call home. MDG/CC had visions of HPTT being located with the flyers.

Currently located on the flight

line with Wing Life Support, the team stills reports to the MDG. Misawa has made great strides in HPTT providing briefings to Security Forces, Wing Intel, FTAC and Maintenance. Assisted with F-16 simulator evaluation for NVG compatibility, maybe adopted Air Force wide!!!! Team members were evaluated and certified by CTI as FRM instructors. HPTT worked with FSO with on three Misawa mishaps providing guidance and human factors support. "JD" filmed a 30 sec commercial on the risks on taking Nutritional Supplements. HPTT also met with Army Detachment and Maintenance commanders; reception was outstanding and positive talks that HPTT be incorporated into their training plans into the near future. Finally, after a lot of lobbying, the team is briefing at Base Newcomer's. Both have joined EMT RODEO & CMRT cadre, Med Group EET and co-chair Nutritional Supplements Working Group.

Future plans for us include the simple things like; having our own operational budget, designing a HPTT patch (See the draft attached), getting a HPTT web page, continuing to reach-out to more base personnel and different military branched and hopefully become the best HPTT in the Air Force. If you have free time drop the team a few lines...Capt Dan "JD" Roberts and TSgt Charles "Lil Nut" Acron would love to hear from you all... Sayonara from Misawa HPTT.

YOKOTA AB, JAPAN

A great move for Yokota HPTT is that we finally have a permanent office!

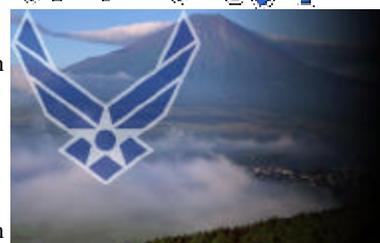
was selected into the BSC and will become one of our newest Aerospace Physiologists. He will commission to 2Lt before leaving Kadena. Congratulations to all on a job well done!

Hot Topics:

After a year of hard work by 1Lt Mitchell and myself we have finally established ourselves here. We currently brief on several topics but mainly nutritional supplements and fatigue counter measures to the ground troops. 1Lt Mitchell briefs the flyers during safety days commanders calls and wing and flight safety days, she is currently flying with the 36th ALS and occasionally with the 459th Helo squadron. 1Lt Mitchell is helping with the upcoming changes for C-130 specific NVG program. Flying focus will increase dramatically as the runway that has been shut-down for almost a year opens up the first of July. We both serve on the EET and provide a vital link for the rest of the team and base. We also do many ergonomic assessments in conjunction with the BEE's. They really like us doing that portion of their checklist during their quarterly visits to all the shops. We conduct radio commercials and TV commercials on different subjects that get broadcast across the Kanto plain to several bases. A full time radio show is in the works; the hot topic is still nutritional supplements here at Yokota. We screen all home businesses that sell or plan to sell nutritional supplements per the base and hospital commanders request. Procedures and policy on DCS treatment have been revamped as there was not even oxygen and masks in the ambulances or in flight medicine when we arrived. We have finally submitted a budget and should have funds come fiscal 2003, so far we will have a separate account from AMDS. It's been a long year and SSgt Burriesce has been



Yokota AB, Japan



augmented out to pretty much everyone, Security Forces to Bio Environmental.

Lessons Learned:

Be prepared to fight for what you want and do not give up. We may have faced many road blocks-be persistent and creative and you can avoid most of them. These HPTT's will not work unless you get a budget established early, our office consists of two loaner desk and a throw away computer that works. Asking AMDS for money to go TDY is a waist of time. Meet the commanders and the shirts as soon as you hit the ground, and every time a new one arrives. Advertise anyway possible and hold seminars on base relative problems. The first few months are very paperwork intensive defining HPTT role across base and in different working groups. Creating and perfecting tools to evaluating CRM, shift work, nutritional supplementation and ergonomics is an ongoing process that is important in qualifying our work and providing consults. NCO's need to jump into the FTAC program and definitely get involved with life support. Be prepared for the NCO to be tasked out like crazy. We do not provide patient care and so unfortunately the mentality is that we are expendable. Stretch out to outlying military units when possible they can be a great resource. The HPTT start has been slow and rocky but we are going strong reaching across the base-new opportunities are presenting daily.

EIELSON AFB, AK

The geese have arrived! The geese have arrived! Yes, it's finally spring in the far north. Eielson's HPTT survived its first

winter, and we're now officially "Sourdoughs." To be fair, we had a mild winter with the coldest day a mere 43 below zero – a far cry from the norm of 60-below! But we haven't lost hope. There's always next year.

Obviously, environmental factors are big business here, with the dangers of the extreme arctic and perpetual winter darkness. Flying continues until it's 40-below, forcing maintainers to deal with cold-soaked airframes and tools. Once spring thaw finally hits, the sun-kissed melting ice refreezing in the night makes the area more of a skating rink than it ever was all winter...and ground mishap trends reflect accordingly. Seasonal Affective Disorder and cabin fever finally relinquish their bony grip on the populous, as people burst from their homes like popped zits. Joggers hit the wooded trails carrying Walkmen and pea-shooters (aka .44-mags) for the big brown fuzzies coming out of hibernation. This is also exercise season, spawning four rounds of PACAF's premier joint-nation exercise, COPE THUNDER, as well as the wing itself undergoing 1-2 major exercises or inspections monthly.

With half the wing gone for deployments at any given time thanks to AEF rotations, the remaining survivors spread themselves whisper-thin to continue business as usual. 14-hr shifts are the norm with both cops and maintainers, not to mention the 24-hr firefighter and ambulance crew shifts. During exercises, roughly 1500 players are simultaneously thrown into 12-hr shifts in MOPP gear. Just as the endless black winters make you sleepy when you need to be awake, the land of the midnight sun makes you want to stay awake when you need to sleep. People escape from

their exhaustive work schedules for equally exhaustive vacations, cramming their camping-fishing-four wheeling-mountain climbing-road trip into a single weekend. Needless to say, circadian desynchrony and fatigue countermeasures are big sellers here too. In the words of the squadron commander, "the wing's tired."

Our activities have us spread far and wide between IRCs, AGSM HUD reviews, ergonomic investigations, aircrew survival training, Wing EET, Disaster Control Group, Population Health Working Group, Aeromedical Council, Aircrew Protection Working Group, and the myriad of presentations for security forces, air traffic controllers, the FAA, Civil Air Patrol, safety, maintainers, firefighters and heavy equipment operators. Wow! Just imagine what we could do if we actually had some money!!

One of us even had the fortune of participating in the tower's emergency escape exercise using the Baker Escape Chute – a 220 ft fishnet tube. It's similar to a giant Chinese finger trap in that the more force your body exerts, the more it slows your fall as it closes in around you. Eventually, you squirt out the other end like toothpaste. The first 50-ft is pure free-fall, and utterly exhilarating. The point is to never be afraid to get off the beaten path. Our duty section IS the tower, the flightline, the firehouse, the snowbarn, the construction site, and briefing rooms. Get outside and hang with your customers. Get into their worlds and on their shifts. There's so much they can teach us. We may think we're here to fix them, but in their company, we also learn to fix ourselves.



Air Mobility Command

Andrews AFB:

Promotions/Awards:

- Capt Keith Higginbotham promoted to present rank Apr 02
- SMSgt Bheng Delacruz promoted to present rank Jun 02
- TSgt Michele Ward promoted to present rank Jun 02
- CMSgt Dave Pridgen promoted to present rank Jul 02
- Aerospace Medicine Squadron selected for AMC 2001 Team Aerospace Medicine Award

Departures:

- Col Susan Richardson PCS to Bolling AFB Jun 02, New Chief Aerospace Physiology
- SSgt Mary Beers PCS to Moody AFB Mar 02
- SrA Kevin Graves separated Jul 02
- SrA Roxann Rodriguez separated Jul 02
- SSgt John Lando PCS to Kunsan Sep 02
- MSgt Bheng Delacruz PCS to Kadena Aug 02
- TSgt Jim Denniston retirement Sep 02
- MSgt Norris Strickland PCA to HAWC Mar 02, Projected retirement Spring 03

Arrivals:

- Col Albert Hartzell returned as Flight Commander 15 Jun 02
- CMSgt Dave Pridgen returned to unit from squadron superintendent May 02
- Four technical school graduates report Aug 02:
 - SSgt Shawn Hansen
 - AIC Jeremiah Rodriguez

- AIC Daniel Stoner
- AIC Helton
- SSgt Mindy Francisco PCS from Beale AFB Sep 02

Hot Topics:

- CATS Inspection scheduled for 16-20 Sep 02
- SSgt position available for Pope AFB HPTT. Any volunteers please contact CMS Pridgen

Fairchild AFB:

Promotions:

- TSgt Kolhof-Howard was promoted to her present rank on 1 Jan 2002.
- TSgt Jeanette Nall was promoted to her present rank 1 Jul 2002
- AIC Marshall promoted to SRA BTZ effective 1 Sep 02

Arrivals:

- SSgt Kacey Moore-Richie is relocating from Edwards AFB to Fairchild AFB Jul 02
- Three technical school graduates report Aug 02
 - AIC Heim
 - AIC Adam Hoffman
 - AB Kristina Kemp

Departures:

- MSgt Bryan Dodrill retired Jul 02
- TSgt Kimberly Noe selected as Airman Leadership School Instructor effective Aug 02

Awards:

- 1Lt Michael Luby, AMC Aerospace Physiologist of the Year

2002

- AIC Nicholas Ingram, AMC Aerospace Physiology Technician of the Year 2002

Hot Topics:

FAFB physiological training unit received several reports of ground aircraft maintenance personnel who have experienced symptoms of DCS during ground level pressure checks of the aircraft. The unit is reviewing reports and will provide input to the wing.

Lessons Learned:

Instructor Evaluations: IAW AFI 11-403 paragraph 12.2.5.2, and CATS inspection criteria, instructor evaluations must have specific comment that instructor met compliance with Standardized Curriculum objectives.

Travis AFB:

Promotions:

- SSgt Lakebra Wilson promoted to present rank May 02

Hot Topics:

Travis AFB received physiological training officer this spring and began HPTT program



Command Consultant
 - Col Albert Hartzell
 Functional Manager
 - CMSgt Dave Pridgeon

