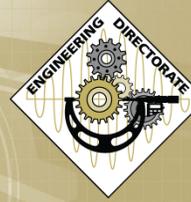


THE ENGINEERING EDGE



ECBC ENGINEERING
Design→Build→Test→Support

EDGEWOOD CHEMICAL BIOLOGICAL CENTER

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For article suggestions, questions or comments please contact Ed Bowen at ed.bowen@us.army.mil

Leadership Interview Series: *Rick Moore, Branch Chief for RPIB*

In this month's Engineering Edge Leadership Interview Series, we talked to Rick Moore, Branch Chief for the Rapid Prototyping and Inspection Branch, about his role and got him to share his thoughts on leadership

Engineering Edge: How would you describe your current position at ECBC?

Rick Moore: I have been the Branch Chief of the Rapid Prototyping and Inspection Branch since early 2001. I have worked for Mark Schlein since December of 1989 when he started the Computer Aided Engineering program. I began my career as a Computer Aided Design draftsman.

Later on down the road, I was steered toward management where I was basically in charge of ten student contractors.

EE: How did you initially become interested in the field of engineering?

RM: I went to community college right out of high school and was less than enthusiastic about it. Then I found that there was a drafting curriculum,



(Continued on page 4)

ECBC Packaging Branch Attends Air Force Logistics Training

By Debbie Brooks-Harris and Karen Rafferty

As a powerful cross-training tool, select personnel from the ECBC Engineering's Packaging Branch, the Acquisition Logistics Division, Joint Program Manager – Contamination Avoidance and an Air Force representative from Wright Patterson Air Force Base recently attended a Packaging Workshop Training program led by Mr. Wayne Osborn at Robins Air Force Base, Ga. In a chance meeting related to packaging policy, two counterparts from different services discussed the need for hands-on experience. That's all it took to motivate Mr. Wayne Osborn to make this training a reality.

(Continued on page 2)



Teaming Works With EFV Program Government, Contractors Collaborate

The Engineering Test Division's Test, Reliability and Evaluation Branch (TREB) successfully teamed with General Dynamics Amphibious Systems (GDAMS), United States Marine Corps program managers, and Fairchild Control Systems to help development contractors improve the Expeditionary Fighting Vehicle (EFV) design that ultimately will save lives of Marine Warfighters, the customers of this effort.

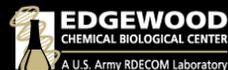
On May 4, 2010, the United States Marine Corps held a rollout ceremony to introduce its EFV prototype.

(Continued on page 3)



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Workshop Training

(Continued from page 1)

The workshop was designed to expose personnel to various hands-on packaging processes, Air Force style. In addition, a healthy dose of "Southern Hospitality" was afforded all participants.

Robins' personnel engaged participants in a walking tour through the Defense Logistics Agency (DLA) Central Receiving, Avionics Direct Shipping facilities and the Reclamation area. The facility maintains a repository of various sizes of fiberboard containers and cushioning inserts.

Customers from any of the services, government organizations, as well as contractors, may contact the Reclamation Center for free issue of stocked items. The only expense to recipients is transportation costs. Without the Defense Distribution Depot and Warner Robins' partnership, many customers would not have access to the warehouse, which is an amazing asset.

During the workshop, Robins' employees proudly demonstrated their skill at packaging aircraft propellers and the process for preparing irreparable items for Defense Reutilization and Marketing Service Office use. A significant part of training included briefings on step-by-step packaging processes used by the Air Force.

Attendees also watched video and multimedia presentations that showcased a variety of fast pack containers used by multiple services. Workshop topics covered instructions on optimizing containers for reuse, as well as a simple procedure on correctly removing labels and removing protruding nails and staples.

Working together during the training, team members developed both a Method 52 pack (Container, Waterproof Bag, Sealed with Desiccant), and a Method 42 pack (Container, Waterproof Bag, Sealed, Container). Robins Air Force Base's Packaging Branch uses these techniques, among others, as part of an aircraft projection system.

The Engineering Directorate's packing team was provided an opportunity to work directly with DLA team members in their on-site facility to package products in fast pack containers and to package products in accordance with previously prepared Air Force special packing instructions.

In addition, ECBC's logistics representative sat with an Air Force logistics representative to learn Air Force logistics processes. The workshops concluded with demonstrations of purchase request processes and for updating a drawing in cartridge actuated devices.

Our thanks go out to the staff at Robins Air Force Base Packaging Branch, and especially to Wayne Osborn. The workshop was very productive and informative. Along with a heaping spoonful of "Southern Hospitality" and graciousness, the opportunities and networking presented by Robins' personnel were truly a successful venture.

The extreme professionalism with which Robins presented the material enabled all participants to realize how involved and important supply chain management is to the preservation of equipment, as well as safe delivery to the Warfighter. ⚙️

Safety Information: Grilling Safety at Home and on APG

According to National Safety Council data collected from 2006 through 2008, approximately 10 deaths, 100 injuries and \$37 million in property loss occur annually from grill fires.

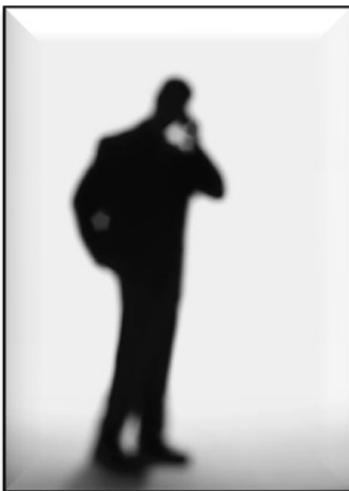
In addition, Erie Insurance reported approximately 17 people die every year as a result of Carbon Monoxide (CO₂) fumes from burning charcoal in poorly ventilated areas and others are injured each year from approximately 600 gas grill fires or explosions.

The Edgewood Chemical and Biological Center wants everyone to remain safe when cooking out this summer with some helpful grilling safety tips.

Did you know that in 2002, the Consumer Product Safety Commission announced new safety device requirements to prevent propane leaks in gas grills? If you own a propane tank older than 2002, take the tank to any local refill station and they will supply you with a new safer tank. Be sure to check Consumer Product Safety Commission guidelines often for changes to gas grill safety regulations, and always read your safety manual when using and storing propane tanks.

Charcoal produces CO₂, a colorless, odorless gas that is hazardous to humans. Never burn charcoal grills inside homes, vehicles, tents, or campers regardless of ventilation. Be sure charcoal is completely extinguished before storing your grill indoors to prevent CO₂ poisoning. CO₂ poisoning symptoms include headache, nausea, fatigue, and flu like symptoms. Immediately exit to a well ventilated area if you feel any of these symptoms around a grill or any other burning material containing carbon. And, again, always read your safety manual before using your grill.

Also be sure check APG's grilling safety tips and requirements before using grills located in common areas on the installation. Most importantly, you must obtain a permit, which may be written for the whole season, from the fire department. For more information, contact APG's Safety Office at 410-306-1100, and remember to enjoy your summer and be safe when grilling. ⚙️



Security Tip: Reporting Derogatory Information

All employees are required to report credible derogatory information as well as certain behavior or activities regarding themselves or their coworkers. These behaviors and activities include:

- Serious unlawful acts
- Indications of emotional, mental or personality disorders
- Unreported foreign travel
- Close and continuing relationship with non U.S. citizens
- Alcohol or drug abuse
- Unexplained affluence or financial irresponsibility
- Willful violation of security regulations
- Coercion, blackmail, or recruitment attempts
- Unauthorized disclosure or news leaks

Information is to be submitted to the Security Manager and will be treated as confidential. Failure to promptly and accurately report could result in revocation of an individual's security clearance. For questions or more information, please contact the ECBC Security Office at ext. 5-7232 or try one of the following alternate contact numbers: ext. 5-6810, ext. 5-2060, ext. 5-6958. ⚙️



Spinal Muscular Atrophy Awareness Month

August is National Spinal Muscular Atrophy (SMA) Awareness month, and the Families of SMA is urging people to come together with their communities to raise knowledge of the disease to new heights. The Families of SMA also is excited to be moving forward in both understanding and developing potential treatments for this disease.

Awareness is the beginning of change. The majority of people don't know about SMA until it directly affects their family. Even the letters SMA don't ring a bell with many doctors, nurses and community members. This is where you can help.

Grass roots efforts are the foundation of this campaign, and FSMA wants you to get involved and spread awareness of Spinal Muscular Atrophy by downloading materials from the FSMA website or by calling the FSMA office at 800-886-1762 to have printed materials mailed.

Whether organizing bake or craft sales or setting up candlelight vigils to honor the children who've died, there are many ways to take proactive steps to help Families of SMA raise awareness to help find a treatment and cure.

Also, FSMA wants you to "Honor your SMA Angels." Join with families and SMA organizations around the country by lighting a candle at sunset on the second Saturday in August to remember and honor those who have lost their battle with SMA. To learn more about SMA, visit the Families of SMA website at: <http://www.fsma.org/> . 

Teamwork

(Continued from page 1)

TREB personnel played an integral role in providing the EFV program with government testing services, contractor trouble shooting and corrective action guidance that improved vehicle design and will provide Warfighters with chemical and biological protection.

TREB received the support contract with GDAMS that began in September 2006 and completed in July 2009. During this support period, TREB provided leakage and flow balance testing, supported filter life analysis, and evaluated the total protection factor of the EFV using TREB's large test chamber.

Throughout the support period, TREB addressed real-time challenges that supported critical EFV program milestones. The most critical milestone was the NBC Filtration System (NBCFS) passing acceptance and airflow verification testing.

This was the final hurdle prior to integration on a Second Generation System Development and Demonstration (SDD-2) EFV and



ECBC's TREB team was a key factor in this success.

The following efforts bear special recognition and are indicative of the TREB team's commitment to the EFV Program.

During leakage evaluations, TREB provided expert advice that was incor-

porated into the (NBCFS) design to ensure the system both met its performance requirements and ensured the system could safely perform in theater.

TREB recommendations also were incorporated in General Dynamics' specifications, and field verification and acceptance testing procedures, which provided confidence that the NBCFS would be supported throughout the EFV life cycle.

TREB also performed verification testing at GDAMS Woodbridge facility prior to vehicle testing at ECBC and successfully incorporated critical fixes prior to chamber testing.



Members of the TREB and GDAMS team

In September 2009, General Dynamics Amphibious Systems (GDAMS) expressed their thanks to Do Nguyen and the ECBC TREB for their outstanding support of the EFV Program. Shown here from left to right, Darren Leap (GDAMS), Alan Forrest (GDAMS), Brian K. Radlick (GDAMS), Michael Oree (GDAMS), Do Nguyen (ECBC), Angel Cruz (ECBC), Derek Mancinho (ECBC), Kenneth Eng (ECBC), HongNhan Le (ECBC), Steve Marshall (ECBC) and Ronald Pojunas (ECBC).



The EFV has two variants: Personnel and Command. The Expeditionary Fighting Vehicle Personnel Variant with a three person crew can conduct the signature mission of the United States Marine Corps, Expeditionary Maneuver Warfare from Seabases by initiating amphibious operations from 20-25 miles over-the-horizon and seamlessly transporting 17 combat equipped Marines to inland objectives.

The fully armored and tracked combat vehicles will provide lethal firepower to disembarked infantry with its own fully stabilized MK46 30mm Weapon Station and 7.62mm coax machine-gun.

The TREB team is composed primarily of a group of engineers and engineering technicians that work well together to improve customers' products. The team is accredited to ISO 17025 and is continuously upgrading both equipment and test methodology. 

Leadership Series

(Continued from page 1)

and I had taken drafting in high school and really enjoyed it. So from there, I pursued drafting in college and became more enthusiastic because I actually enjoyed what I was doing.

EE: What are some of your career highlights (with ECBC, or elsewhere)? How have they shaped you into the leader you are today?

RM: There was one point in my career when I became bored with drafting. Mark Schlein gave me an opportunity to get involved with these new technologies and as soon as I was exposed I was instantly hooked. So because Mark gave me that opportunity I was able to pursue the path to where I am now.

I have really been able to take advantage of the opportunities presented to me here in Engineering. I got a masters certification through the Society of Manufacturing Engineers in 2005. I had to take a 100 question exam at the master level for rapid prototyping and manufacturing. At the time you had to get a 70 percent or better.

I was one of only 19 people in the world with that level of certification. The fact that we have a good percentage of all the technology I was being tested on in house really helped my chance [to pass]. Before I even took the exam I knew 75 percent of the material that was being covered, so while most people had to study I already had lots of hands-on experience.

Another (career) highlight I've had is being able to give several presentations at various conferences involving rapid prototyping. I also was able to get a liaison approval by ECBC. I was approved to be an Army liaison to a forensics organization. I went through the entire process and was able to get the legal approval to operate in an official capacity to work with the forensic association. Because of this [relationship], I was actually sought out by a member of the FBI to help educate law enforcement [agencies] about rapid prototyping and close range laser scanning.

I also participated in building an actual bust of Ray Lewis [the Baltimore Ravens pro-bowl middle linebacker]. It was for his youth charity organization.

I won the silver medal for the Federal Executive Award for Outstanding Para-professional Technical Scientific and Program Support. The award is engineering technician based, and I received it right after I got my master's certification in rapid prototyping. Mark nominated me because through this certification I was able to help build the capabilities of our rapid technologies lab to the point that it's recognized internationally.

I also was given the opportunity to be a keynote speaker in Dusseldorf, Germany at a German [law enforcement] workshop for the International Association of Forensic and Security Metrology (IASFM).

EE: What do you consider to be the most challenging aspect of your position? What have you done to overcome those challenges?

RM: The most challenging aspect of this position is the supervisory part because I'm a working leader. My job has three parts. One part involves the business unit manager aspects. I handle all of the financials that go through the labs. The second part is the supervisory and administrative aspects, such as supervising my staff. And the third part of my job is as a project manager.

I have about 20 separate projects for which I am the project leader. In this role I have many responsibilities. First, I quote the project and draw up a statement of work, and then I go after the funding, delegate the work, track the finances and make sure the product is delivered correctly and on time.

Being a supervisor involves me having to do a lot of administrative paper work and it takes me away from the technical hands-on portion of the job, which I miss doing. I have always been a hands-on type of guy so it's hard for me to stay away from actually doing the work.

EE: What excites you about the work your team is doing? What excites you about being a part of Engineering?

RM: Every time we have a tour, usually toward the end there is someone who always says, "You must love your job," because of all of the cool technologies we use. I think I have the coolest job here. It feels more like a hobby than a job. We really enjoy building the parts too much for it to feel like work. Everyone that comes through can see how enthusiastic we are about our jobs.

EE: What are some of the most critical skills needed to succeed in ECBC?

RM: You need a lot of different skills. You need to be able to multi task, be a people person, be organized and you have to have the ability to lead by example. I still go in and do the grunt work; I'm not above it. I help out as necessary. I have to wear a lot of different hats. It's also critical to have the technical know-how as well as a good work ethic—not just any work ethic, but labor-oriented work ethic. You're not just sitting behind a desk; you get sweaty and it is hard work.

EE: What other advice would you offer to members of the Engineering workforce that want to advance within the organization?

RM: I would suggest that they should always be aware of the opportunities that are given to them. No one just appointed me as leader of this area, but it was my strong work ethic from the beginning [that got me here]. I also couldn't have gotten here if Mark hadn't given me these little door openings and given me opportunities to explore different areas.

But no matter how little the opportunity was I always took it. And as someone in my position, without a four year degree, it took me longer to get here but it was recognizing those opportunities and going the extra mile or doing things I didn't always want to that led me to this point. ⚙️

APG Motorcycle Safety Program

Do you own or know of someone who owns a motorcycle and want to take advantage of the warmer weather to ride? Then you must sign up to participate in the Aberdeen Proving Ground Command Motorcycle Safety Program this Summer.

All military motorcycle riders will complete the following command provided, no cost, progressive training programs: The Basic Riders Course, The Motorcycle Sport Bike Rider Course, The Experienced Rider Course, and The Motorcycle Refresher Training.

The Command Motorcycle Safety Program promotes and fosters safe motorcycle use both on and off duty, in and around the installation. Every APG team member must be committed to and actively involved in motorcycle accident prevention. The program includes mandatory riding training, leader mentorship, and the enforcement of a Soldier's/civilian's personal responsibility to keep safe.

All Active Duty Personnel, Reservists, National Guard, DoD Civilians, Retirees, and Family Members who operate a motorcycle on the installation must successfully complete a Motorcycle Safety Foundation approved motorcycle rider safety course. Military Dependents, Retirees, and DoD Civilians are not considered civilian "visitors" and also are required to complete a motorcycle safety course in order to ride on the installation.

To schedule required motorcycle training or to obtain additional information, contact the APG's Safety Office at 410-306-1100. ⚙️

WHY I LOVE Balanced Scorecard: A Conversation with Kevin Wallace

The Engineering Edge talks with Kevin Wallace to understand why he participates in the Balanced Scorecard (BSC).

Engineering Edge: How did you first hear about the Balanced Scorecard (BSC)?

Kevin Wallace: I first began learning about the BSC through Bill Klein and Ed Bowen. They organized and held the initial "Introduction to BSC" briefings. There were specific sessions held to explain the premise and background of the BSC. When I sat in on one of those meetings and saw how the BSC would apply to the Advanced Design and Manufacturing Division (ADM) and the Edgewood Chemical Biological Center (ECBC) it intrigued me from a business development perspective.

EE: What initiative are you involved with?

KW: I have been working on Initiative IP2. This initiative is titled, "Provide Customers with an Accountable Person." We had to develop a metric with this initiative so for our initial test cases we were focusing on the Engineering Directorate's larger funding customers. Our goal was to have a focal point in the Engineering Directorate for that customer, whoever that customer might be, like DARPA or DITRA so any efforts going on in Engineering would go through this accountable person. The point of contact (POC) or accountable person would work as a liaison between the Directorate and the customer so that the customer organization doesn't have to figure out who their POC is.

EE: What inspired you to get involved?

KW: What drew me in was the business development perspective. I want to see the organization thrive, so from the business perspective I decided to get involved. I thought the BSC could use some young minds and fresh thoughts on how to move the organization into the future.

EE: What has been the most rewarding part of working on the BSC?

KW: In general the most rewarding part of the BSC is seeing the changes happen. It's nice to see that management has bought in and is allowing an organizational shift in how we do business. ⚙️



ECBC Engineering Directorate HR Tip of the Month: Beneficiary Forms

The CPAC representative, Teri Wright will review and authenticate the following forms: Federal Employee's Group Life Insurance, (FEGLI), Unpaid Compensation and Federal Employee's Retirement System (FERS). Teri will submit originals to your Official Personnel File (OPF). Thrift Savings Forms (TSP-3) should be mailed directly to TSP using the address on the form. Keep a copy for your record. ⚙️

For more information about your HR policies, please contact Engineering Workforce Management Representative Sabre Harper at ext. 5-2722.



BSC NEEDS YOU!

P1: Develop a Strategy-focused Organization

To join this initiative team please contact Ed Bowen at ext. 4091

The Engineering Edge

The Engineering Edge is the ECBC Engineering Directorate's monthly newsletter. It is produced for ECBC Engineering staff as part of the Balanced Scorecard Initiative. Unless otherwise noted, all stories, photographs and graphics are produced by the Engineering Directorate's Strategic Planning and Business Operations Branch.

Submissions: We need your stories, photographs, comments and suggestions. If interested, contact *The Engineering Edge* staff concerning ongoing and future products and submissions to *The Engineering Edge* Newsletter. Submit your stories or ideas via e-mail to ed.bowen@us.army.mil.

