



ED Update

Wright State Emergency Medicine Residency
Department of Emergency Medicine

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Special Points of Interest:

- ◆ EMS pg. 4
- ◆ CAP Lab pg. 4
- ◆ SIM Center update pg. 5
- ◆ Clerkship pg. 6
- ◆ Research Student Progress pg. 8
- ◆ Educator Award pg. 9
- ◆ ACEP pg. 9
- ◆ Recruitment pg. 9
- ◆ Calamityville Progress pg. 10

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HAPPY 2011

Let this edition of the *Update* serve as the official Departmental salutation and suggestion for a healthy New Year. By now you have likely shared many less formal handshakes and communal assertions of love, prosperity, and perhaps even a non-pageant request for world peace. Nothing wrong with keeping our fingers crossed. Someone around here had asked for a white Christmas and they got their wish.

A CALL TO FARGO

I called up a high school buddy who for the past three decades has been practicing radiology in Fargo. I consulted him on the mechanisms of living on tundra. He chuckled. December weather had hit us with a vengeance. Antarctic air mass descended upon the upper U.S. on the first of the month. It had hung around, twice punishing the fruit in northern Florida and mid-month, cold wind and precipitation was thrust at a wide swath of the U.S. and almost all of Europe. On the nightly news, Minnesota looked downright inhospitable but Syracuse with 39 inches of continuous snowfall over two days in early December and 32 inches of accumulation within a single snowfall in much of New Jersey made me thankful to be in Southwest Ohio. Nonetheless, it is the first time in memory that we got snow at the beginning of the month and it stayed the whole month on our frozen ground.

MUDSLIDES AND GRANDKID POOP

The California hill people keep smiling despite the loss of their vegetation from August conflagration cycled with early winter mud sliding. After they rebuild their homes, they scoff at our winter issues. Chicagoans take their 1000 flight per day cancellations as part of a normal day. However, Ruth and I were there, not to partake of their winter but to experience Grand-parenting. We tended to remain indoors but temporarily resided in a B&B equivalent two blocks away from the kids and grandkids. The short transport of morning and evening through 50 mph gusty wind was unpleasant, more so than feeding and changing diapers of one month old. Matt and Allison's twins had a well rehearsed birth on November 8th at the 36th week of their gestation.

In Cincinnati, Brook gave us our eighth grandchild on November 17th. She too has been growing and gaining skills. Our kids will hopefully keep their doors open for future visits with Grandma and Grandpa.

Photos top to bottom: Finley, Tradd, and Scarlett.



Reminder: You can view the color version of our ED Updates on our website at:
<http://www.med.wright.edu/em/res/multimedia.html>

KNOCKS ON OUR DOORS

In the last quarter of the year we had several visits from graduates. **Ethan Wagner** helped us in our oral board examinations. His traveling down Interstate 70 was uneventful.

Mark Antonacci represented the Department of the Air Force and met our third year military residents. They had discussions about future assignments.

Tony Abdullah and **Jackie Barnes, MD** both came back this past fall to be Oral Board Examiners.

We also had visits from: **Brian Dursteler, Jim Walter,** and **Gregory Rodgers.**

PRE-CHRISTMAS CONTACTS

In September we received a note from **Sean Bryant**. He had been commissioned into the Navy Reserve and will work with a Marine unit.

Mike Crowder in October sent us a note from Bagram. He was soon to return home and welcomed any California visitors to catch up over a glass of cabernet.

ELLEN COREY WRITES

Dear Colleagues,

About a year ago I was picking out what scarf to wear to cover my bald head. It needed to match the skirt and blouse I was wearing to present a “grand rounds” for a Humanities in Medicine program at the hospital where I had worked for nearly 10 years. The crowd was friendly and included EMS providers, ED nurses, techs and docs, Cardiologists, Neurosurgeons and even a very special Gastroenterologist. I had been asked to present for my friends and colleagues a summary of the events of the previous 6 months during which time I transitioned from “Doctor” to “patient”.

In the most recent Wright State ED Update, I noticed a couple of lines about a complete stranger: “Sadly, I relate what I believe is a first. Debby Barrett Dodge passed away in July.” It took my breathe away. I wanted to know more. Who was she? How did she die? Did she have a chance to allow an illness to change her and remold her very soul? I did. I would be honored to share a few thoughts about that experience with all of you.

Right now, wherever you are, whatever you are doing, CALL or write or TXT the person you love the most in all the world and tell them so. Unconditionally. Just do it. (Unless you are working nights!)

A year ago May, I was lying on a table in a dimly lit ultrasound suite while my six year old daughter was busying herself on the metal chair. The familiar tech was investigating my concerns about my uterus being palpable midway between my umbilicus and symphysis. It felt nodular and having had a history of fibroids I assumed they were just getting bigger and all this perimenopausal nonsense was going to get a lot better with a simple hysterectomy. Maybe I would feel better with a hemoglobin above 9? And then I see the techs face, and I turned to look at the screen. We made observations about the shadow there, clinically, not emotionally. 10 centimeters, solid and cystic, thick walled, ovarian. There was an awkward silence as I was excused to get dressed, wearing only that 12 x 12 paper sheet over my lap. My 6 year old delighted over my naked butt slipping into the adjacent restroom.

And so it began, not a gradual descent, towards an airfield on a planned vacation but a freefall from 10,000 feet, no visible parachute. A rapid-fire series of battle plans and strategies were charted and within days, I was no longer one of us. I had moved to that twilight zone of places: the other side of the rail. The urgency of action in my own “real life” played out like a typical “ER” shift. Leave of absence to orchestrate, travel, surgery, family to notify and the challenge of composing an acceptable clinical summary for my three children.

Within two weeks, I had transferred from my role as full-time emergency physician and mother of three to a full-time patient with two ports, 3 doctors and my own personal “Bag-o-meds”. Desperate statistics were spun into sugar-candied-castles by my friends and supporters. I doubted there was even any reason to try. But, with my back against the wall, and all of my colleagues and friends from the ER and the hospital, my lover, my ex husband (was-band), my kids, my brothers and sisters en-masse and my dear loving

mother....I began to believe that maybe I am not a statistic. Maybe I am the perfect patient?

And so it has been for the past year and a half. What I want to say to all of you is that I have noticed a lot from this side of the rail. I've noticed that I like my Doctor's to make eye contact with me, to touch me, my hand or my shoulder. Sometimes a hug is the best prescription you can give. I like it if you can sit down and make me feel equal and answer my questions and all the questions of my family members. You make a difference!

The front desk staff really matters too. I appreciate the secretary at heme-onc (Diane) that handed me a box of tissues as I stood there crying, whispering to my Mother, "I can't do this." She looked me in the eyes and said, "Yes you can and yes you will." I seek her out on every visit, call her girlfriend and give her a hug. All the staff make a difference.

I love my nurses! Oh how I have under-recognized and under-appreciated nurses. From this side of the rail, I do no longer. I appreciate them for telling me they have a sister named Ellen and I CAN walk the hall! For bringing me warm blankets and ice chips. I thank them for putting up with my steady stream of visitors and my roller coaster of silliness swallowed up by a monster of tears. For understanding that some days I am full of optimism and the next day full of fear. Nurses make a difference!

And so it is now that I am able to appreciate the leaves turning....another season, another day. I do not know where this journey will lead but I have learned so much about myself and what is important to me. What I want to share with you is that life for all of us is a limited time engagement....enjoy every minute. What I want to share with all of you as Physicians is that it is the little things that matter to the patients and their families. Even though we want to rationalize that we are "just ER docs" and don't have a long term relationship with people, I can assure you that kindness and compassion do not go unnoticed.

My sympathies to the family and friends of Debby Barrett Dodge. I did not know you, but you inspired me just the same.

Sincerely,

Ellen C. Corey
WSU Emergency Medicine 1989-1992

CONGRATULATIONS



Congrats to **Cliff** and **Kirstin Lightfoot** on the birth of their twins. Aaron was born first and was 6 lbs. 10 oz. and Aubrey was 5 lbs. They were born on Dec. 29th.



Congrats to **Ben** and **Amanda Mack** on the birth of **Jocelyn Nichole Mack**. She was born on 1/11/11 at 7:06 am. She weighed 8lbs. 3oz and was 21 inches long.

And now a word from
the rest of the gang...

PICKETT'S AFTER ACTION REPORT

EMS

EMS is as busy as ever. Opportunities abound for residents to get involved. Case in point, **Scott Koncal** and **Darren Warren** developed a protocol for instituting Post-Cardiac Arrest Therapeutic Hypothermia in the field. Xenia Fire Division was the first to implement the protocol, and had their first save in August on a 68 year old female cardiac arrest victim. She was discharged from the hospital 10 days later, neurologically intact. She was so grateful that she bought steaks for every member of the XFD. Scott and Darren, you don't get steaks, but at least you get a mention in the *ED Update*. The protocol goes region-wide next month.

FAIR

Rachel Holt, DO and former WSU med stud Todd Bialowas, MD came out to the X-Festival in September to help staff the first aid tents along with myself and **Randy Marriott**, MD. Seether, Papa Roach, Drowning Pool, and Shinedown were among the many bands that took the stage at the Montgomery County Fairgrounds, bringing 18,000 fans and drawing 20 noise complaints from Oakwood. During the event, we treated 133 patients, transporting 16 to the hospital. There was also one fire. Medical support for the event was run like a mass casualty incident, with treatment sectors, transport sector, communications sector, and incident command. One of the Dayton FD supervisors had this to say about it: "Having the docs on the scene was AWESOME. It helped us to not have to remove as many and I think it's good for them to get to work side-by-side with some of the crews so that they can get to know each other a little better."

SWAT

JB and **Pablo Medina** represented the department in fine fashion when Montgomery County SWAT exchanged gunfire with a suspect with hostages. Thanks to their expert care, the suspect survived, and the team got a first hand look at the benefit of having docs on the team. The suspect's family called to express how grateful they were that the docs were willing to be out there at 3am in rainy 40 degree weather to save their loved one.

On the regional EMS side, we are facing a shortage of morphine and D50. This has led to adoption of fentanyl and D25 and D10 in the protocols in case we have to make a quick substitution. Training 5000 EMS providers in short order on a new medication is no small feat. **Tom Masters** and **Mark Shepherd** are taking on the task of creating an educational project to get the new protocols and all the necessary training out to the entire region.



Aaron Rubin, **Ryan Bence**, **Jill Aston**, **Brooke McCarthy**, and **Jennifer Pease** put together a monster online presentation on crush syndrome, which will shortly go out regionally for continuing education credit.

CAP

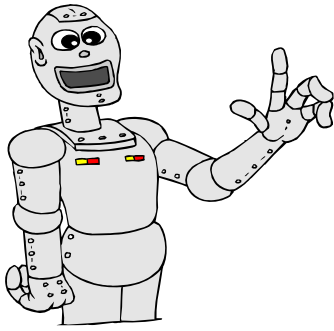
The 5th Annual Cadaver, Anatomy, and Procedure Lab for EMS brought EMTs and paramedics to the region from 9 states and Canada. **Tony Kim**, **Megan Dines**, **James Manley**, and **Susan Geiger** put forth a massive effort for two days of intense training. As soon as we can stop giving Tony electroshock therapy, we will tell him what a great job they all did. Doug Gilmore from Miami Township Fire Department was instrumental and irreplaceable as always, and despite the fact that we make him our dogsbody every year, he keeps coming back, much to our benefit. In a blast from the past, Stephanie Illanes flew in from Alaska to relive the memories, or maybe to see some temperatures above 0. A great time was had by all, until James Manley ordered blazin' wings for all of us at BW3 and ruined our digestive tracts.

OVER THERE

On a personal note, I am heading back to Iraq in March with the 256th Combat Support Hospital. I'll be up north this time in Mosul or Tikrit for a few months. It is at these times that I realize iChat is one of the best things ever invented.

Of last note, do not get caught shooting arrows through remnant fake reindeer on people's lawns. Oakwood police do not have a sense of humor about that sort of thing.

Happy New Year.



Update from the Center for Immersive Medical Education and Research (CIMER)

- Ray Ten Eyck, M.D.

MONTH BY MONTH BLOW

During this past quarter we continued efforts to improve our recurring teaching modules while implementing a few new initiatives. In September, our second-year residents practiced the skills needed to evaluate and care for infants presenting to the ED with potentially life threatening conditions. Later in the month, a large cohort of Air Force student's with hopes of becoming part of next year's R-1 class demonstrated their clinical skills in the lab. At the end of the month we had an opportunity to again assist the Kettering College of Medical Arts' recruiting efforts by hosting about 90 prospective students in the simulation lab as part of the college's open house.

OCTOBER

October provided an opportunity to test the resiliency of our operations as we supported an Advanced Disaster Life Support course at the MACIE center while the mobile simulation van was deployed to Children's Medical Center (CMC). Using a combination of our simulation ambulance and the MACIE building, we were able to provide a level of fidelity which helped the attendees integrate the DISASTER paradigm with their clinical acumen to care for simulated critically ill disaster victims. The CMC program was a new endeavor designed to provide their transport team members with an opportunity to practice their skills while dealing with the unique patient challenges encountered during high-risk, low-frequency events. At the end of the month we presented a poster featuring our second-year medical student simulation program during the School of Medicine's Central Research Forum.

NOVEMBER

In November we presented one of our abstracts along with a session entitled "Simulation: Curriculum, Reality, and Research in Emergency Medicine" at the Midwest SAEM meeting sponsored by our department. We also initiated a resuscitation skills program for the Department of Family Practice in preparation for their new role as primary responders to in-hospital arrests at Good Samaritan Hospital as of January 2011. During the month, I had an opportunity to attend the AHA Scientific Session in Chicago featuring the new ACLS, BLS, and PALS standards. The meeting piqued my interest with the potential for significant improvements in ACLS outcomes based on more consistent adherence to the basics and the potential to use simulation as a tool to better prepare our resuscitation teams.

DECEMBER

The transition from November to December was bridged by three days of multidisciplinary simulations incorporating our third-year residents and the senior students from the Kettering College of Medical Arts' School of Nursing. Immediately following these sessions, we refocused our efforts to complete the preparation for the CAP lab. This year we doubled the simulation sessions and deployed four simulators including two adult stations in NCMR's mobile simulation van and two pediatric simulations in the IDTL in partnership with the MVH simulation team. Once again, the weather didn't cooperate this year, but the students seemed to enjoy it anyway.

New Heitz

- Corey Heitz, M.D.



IN UTERO

Life has been good since the last *Update!* If you missed the news, my wife and I are expecting our first in March, and we've found out we're having a girl...I'm already practicing my best "boy, that's my little girl you're looking at..." so as to be as intimidating as possible to would-be romantic interests. So not looking forward to having a teenage girl running around the house (or just running it!)

You can follow her progress at www.theheitzfamily.com

JOB SEARCH

As for the job search, we are still in the midst of things. As of early December, we had not yet made any final decisions. We hope to decide in January. Possibilities include VT-Carilion in Roanoke, Virginia, Wake Forest or ECU in North Carolina, or West Virginia University.

CLERKSHIP

In making the transition to a home, I have been involving Stacey Poznanski (see "the Wizarding of Poz") in as much as possible. We have been discussing the future of the clerkship, including content, assessment, and where and how to present the information. Potential changes include online learning, team-based sessions, and more "what can they do?" assessment instead of "what do they know?" Whatever form the changes take, Dr. Poz will be a great leader to take over the course!

In addition to the clerkship, the EM department is working to develop other opportunities for medical students to interact with and learn from our faculty and what we have to offer. We are developing a simulation elective to be run by Dr. Ten Eyck, and Dr. Gebhart has generously offered to develop a disaster/mass casualty event elective. Currently, the offerings are being considered for the fourth year, but we are considering expanding possibilities for preclinical students as well.

ERRORS

I've spent a lot of time lately thinking and reading about cognitive errors in medicine. I am in the midst of the book "How Doctors Think," by Jerome Groopman. Within he discusses various cognitive errors, including "affective error." As humans, we let our emotions influence us to some degree. How often have you heard, or thought, of the homeless alcoholic patient in the ED and minimized his or her symptoms (his epigastric/ chest pain is just gastritis, right?) How about the nice grandmotherly lady with sepsis...you don't really want to cause her pain by putting in a central line; let's give her some more time to improve. Affective error occurs when we let our personal feelings about the patient affect our treatment. We minimize the symptoms of the patients who irk us, and we may be less likely to perform painful, aggressive procedures on those we view favorably. How do we avoid this? One way is just to recognize it, and then react. Ask yourself, "that homeless guy...what if I didn't dislike him? What would be my differential for someone for whom my feelings weren't negative, and how would I work them up and treat them?" and "why do I think being less aggressive for the frail grandmotherly lady is appropriate care? What if she didn't remind me of my grandmother...what treatments would I consider?" Recognizing potential sources for cognitive errors is the first step in reducing them.

That's all for this *Update*...check back next time for more!



Springer's Stuff

- Brian Springer, M.D.

MY MONTH BY MONTH

I spent more of September on the road than at home. First, **Dr Wightman** and I were in Pittsburgh for a week for the National Tactical Officers Association. I spent the days in class learning about maximizing physical performance for SWAT operators, psychological preparation for high-stress law enforcement operations, and assessing regional terror threats. Dr Wightman learned how to make IEDs. Hmm... From there it was off with Kim to Las Vegas for the ACEP Scientific Assembly. I completed my term as board-representative for the sports medicine section, happily turning the reigns over to younger blood. I also had a chance to catch up with a number of WSU alum: John and Kathryn Henner invited us to a party at their home including **Max Lee, Frank & Thanya Lee, Brian Syska** and **Heidi Kabler**.

OCTOBER

I started October with two painful days at Tactical Defense Institute with **Rich Harover** and **Gregg Kennebeck**, being subjected to rigorous live fire and force-on-force training. November wrapped up with a week at the North Carolina Justice Academy in Salemburg, teaching tactical medicine with Doug Kleiner and Tactical Medics International. In between was numerous ED shifts, SWAT training and missions, and academic endeavors. Luckily, Kim and I did find a chance to escape to Hocking Hills for a few days of R&R. Beautiful country, although *something* came charging at us in the woods one night while heading back to our cabin (with glowing eyes in the glare of my flashlight). Probably just a deer, but this here city boy almost unloaded on it with his .40. Guess I need to spend more time in the woods.

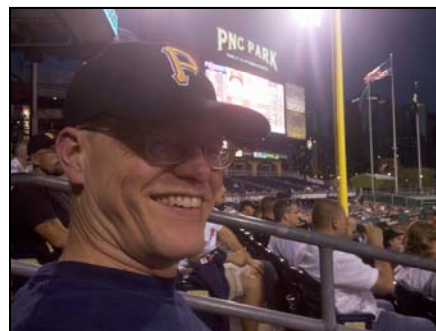
Until the next edition...



Kim and Brian at Cedar Falls in Hocking Hills State Park.



Aaron Rubin & Cliff Lightfoot at maritime training with SWAT down on the Ohio River.



Dr Wightman enjoying a Pirates game, compliments of the Pittsburgh Police Department and State Highway Patrol.



Chatting with "Sir Charles" Barkley, designated "Friend of Law Enforcement" at NTOA conference.

If I only had a brain...

the Wizarding of Dr. Boz

**We shall not cease from exploration
And the end of all our exploring
Will be to arrive where we started
And know the place for the first time.**

-T.S. ELIOT



REFLECTION

I have been with WSU's EM department for about six months now, and as the new Fella in town, this time has been filled with "firsts." In light of the New Year celebrations, I thought would share with you some of the highlights of my new beginning in Dayton...

First Puppy: Now, this should of course be followed by the obligatory "Awwww," but don't let that adorable little face fool you. Although he is sweet and cuddly, he came with plenty of his own "firsts"...first chewed up shoe, first earth-shattering howl in the middle of the night for the squirrel that must have stepped on a twig, and the first bout of gastroenteritis on my dining room carpet. Yep, that's right, both ends. Do dogs have terrible twos too?



Buster - I think I had the same look on my first shift!

FIRSTS

First Shift as an Attending: My favorite moment here was when I looked up from the chaos of paper charts accumulating at my station to the line of techs holding ECGs for each of the chronologically-challenged patients that just filled the B pod. In the midst of a few expletives that may or may not have been uttered under my breath that shift, I remember thinking, "I'm going to have to find my guidance counselor to thank her for talking me out of my dream to be a paradise island caretaker." I looked over my shoulder 23 times that day, and no one ever showed up to tell me what to do!

First Shift with a Resident: You mean I don't have to do all of the rectals and pelvics? All joking aside, these shifts are the highlight of my month, although the first time I was the person receiving the "over-the-shoulder" look was just a tad unnerving. I think I decreased *my* OTS looks to only 3 that day!

First Miss: Humbling, terrifying, and galvanizing.

First (and hopefully only) EM Board Certification exam: Does it really take 90 days to score a computerized exam?? Either way, glad to have that behind me...for now.

First Christmas with my husband: Skype to Iraq (how we spent our actual First Christmas) doesn't count. It's nice to have him home.

Looking forward to all of the firsts of 2011!

Research Results

- Jim Olson, Ph.D.



STUDENT PROGRESS

Students in the lab made significant progress during the fall. **Sergei Robinson** (NCBP Master's Student) began his experiments for his thesis research. After an intensive effort this fall, he has completed a significant portion of the studies. These experiments will continue through the winter quarter as he analyzes the results and begins writing his thesis.

Amanda Freeman (BMS MBP student) successfully passed her PhD qualifying exam and spent the remainder of the quarter preparing her thesis proposal. This will be finalized early in January and submitted to her committee for their comments and adjustments. She is anxious to get back into the lab and continue her work on defining the cell specific signaling which regulates the taurine transporter, a major molecular component affecting brain volume regulation.

Megan Woods joined us from the Prairie View Campus of Texas A&M where she completed her bachelors degree in the spring of 2010. Megan is participating in the Grad-Prep program which gives students a one-year period of laboratory experience to aid them while applying for professional schools. Since the summer, Megan has prepared to take required examinations for graduate and medical schools but, also had time to do experiments using genetically modified cell lines to examine signaling pathways involved in astrocyte volume regulation.

Courtney Moore, a Physiology Masters student in NCBP began appearing in the lab towards the end of the fall in anticipation of doing a rotation with us during the winter. Courtney took on the technically demanding task of electrophysiological patch clamp studies. She has already mastered many of the techniques required and has successfully made several recordings. Courtney will be examining the regulation of ion channels involved in cell volume regulation that occurs during cell division.

CONTINUED FUNDING

We were pleased to hear that 3rd year funding has been approved to continue our basic studies of nano particle penetration into the blood brain barrier through a sub-contract with the University of Dayton Research Institute (UDRI). The first portion of this research was presented at the Society for Neuroscience Annual Meeting held during November in San Diego, California. There we described the pharmacodynamics of the nanoparticles in the bloodstream and the tissue distribution after several hours of circulation. We have preliminary evidence that the particles penetrate the blood brain barrier and thus maybe used for imaging specific brain structures in normal conditions and during pathology. The presentation was met with considerable interest and as a result we have received several offers of collaboration from around the world. In the immediate future, colleagues in Staten Island will begin electron microscopic analysis of the nanoparticles in various tissues to confirm their localization and distribution.

EDUCATOR AWARD

On a personal note, I was pleased and honored to be awarded the Science Educator Award from the Society for Neuroscience at their annual meeting last fall. This award came as a result of my work to promote neuroscience education through the Science Olympiad program. As a side-bar, Wright State University will be hosting the National Science Olympiad competition in 2013 and will hold yearly invitational competitions leading up to the national competition over the next two years. I am involved in the organizing committee for these events and would welcome any who have interested in science education at the K-12 level to contact me if you would like to help out.

CHAIR BROWN KNOWS

- James Brown, M.D.



ACEP ALUMNI DINNER

On the evening of September 29th, we gathered at Nora's Wine Bar for the annual alumni dinner. Our large Las Vegas alumni contingent was out in force – **John Henner, Frank Lee, Heidi Kabler, and Brian Syska** made it. **Gary Gaddis** was the senior alum present and was joined by some of the class of '94 – **Joe Ezernack, Andy Prints, and Al Solomito**. Other alumni that made it (not a complete list, my apologies if I missed you) included: **Brian Dursteler, Ryan Mihata, Greg Kennebeck, Glenn Burns, Tasha Feaster, Scott Koncal, and Laura Nolting**. Although the location wasn't the most convenient (about a 20 minute cab ride), we had a great time eating, drinking and catching up with old friends. Of note, we were able to fill up the bottomless pit known as Koncal's stomach. I've never heard him use the words "I'm full" before! We're already looking forward to next year's event in San Francisco.

OTHER ACEP SIGHTINGS

Some others weren't able to make the dinner but I was able to catch up with a few other alumni during the ACEP meeting. I've discovered that if you wander the exhibit halls long enough you'll run into just about everyone. Some folks I managed to bump into were: **Tim Pfeiffer, Max Lee, Frank Smeeks, and Jamie Jones**. While I thought the meeting was pretty good this year – for me, the meeting is mostly about connecting with old friends and alumni.

RECRUITMENT

I believe we have the longest interviewing season of any program in EM. We start interviewing military candidates in July and just finish that up in time to start the civilian interviews in November. Actually, the two seasons overlapped by about a week this year. I'm not sure how Chris Kraft, our coordinator, keeps them all straight. When it's all said and done, we interview about 40 folks for the military positions (6) and 90 or so for the 8 civilian spots. I'm continually grateful to Jon Singer for culling through the 500 or so applications to get us a great pool of people to talk with on interview days.

ALUMNI PRIDE

Despite running into a lot of folks at ACEP, I didn't gather a lot of items this time. Frank Smeeks did tell me that he was president-elect of North Carolina ACEP. We've also been hearing from some of our alumni deployed to various garden spots around the world. We remain quite proud of our contribution to military medicine. Almost every email or letter ends with the words 'thanks for the great training!' Keep those coming in, it's the fuel that keeps us doing what we do!

SECOND LIFE

- Glenn Hamilton, M.D.



UPCOMING PLANS

Plans for the coming year include: completion of the remediation of the contaminated sites on the property, demolition of a large machine shop building, upgrading a garage area to bring to a functional level, and clean up of specific areas in and around the silos to make available as training props.

PROGRESS CONTINUES ON THE CALAMITYVILLE SITE

For the course of the last four months, there have been significant construction advances on the Calamityville site which should allow us to occupy the buildings in late January early February 2011. This has been a complex dance choreographed by Wright State, the architects, engineering firm and the City of Fairborn. All of them must interact with the half dozen or more contractors trying to move the project forward. Add the fact the funding comes from two different state budgets and one federal grant and it is easy to see how things might not get done overnight. We have been greatly aided by Bud McCormick and Bill Harchick who have monitored the on-site progression and negotiations daily.

To date we have completed the following: (1) secured the property with an intact perimeter fence to protect from vandalism. The site had become a favorite place to 'steal a little copper to get your fix.' That is no longer the case. (2) Re-roofed the building and secured the entry ways of the warehouse. It is now supplied with electricity and basic climate control, security, and lighting. Over 1000 lbs of cement dust were vacuumed from the walls and ceiling. (3) Re-roofed most of the administrative and classroom building, while constructing a geothermal-based HVAC system utilizing the on-site wells. The entire interior has been gutted and rebuilt to create an administration area in the front, four classrooms in the middle and laboratory space in the back.

Even as we build it, the customers have arrived. We are still looking for the large 'anchor store' contract that secures active and regular training on the site year round. In the mean time, we have been pleased to cooperate with the Ohio National Guard, Air Force Research Laboratories, Regional SWAT and Sheriff's offices, and several interested business partners. Even in these early ventures, the usefulness and flexibility of the site has been clearly demonstrated. We continue to reach toward a large group of "brass ring" consortia and with the help of our elected officials in the state and congress; we hope to announce successful agreements in the not too distant future.



NCMR PARTICIPATES

On November 19, 2010 we were pleased to present the NCMR concept with emphasis on the Tactical Laboratory at the Ohio Department of Development and BioOhio sponsored Center of Excellence Conference in Columbus. The biomedical oriented centers designated in the University System of Ohio presented a wide-ranging series of topics including: neuroscience, orthopedic devices, regeneration, and exploration of the electronic medical record. All of these efforts are being encouraged to collaborate and we have already found one or two potential programs within the group.

GETTING UP AND OUT

One of the most interesting aspects of the NCMR promotion and development activity is the wide variety of people one gets to meet. Examples over the last few months include: Elliott Brown, PhD, Director of the new Terahertz Laboratory; Lt. Joel Walker of the 711th Human Performance Wing who is actively involved in Broad Network Communication; Earl Gregorich from the Small Business Center at Wright State promotes the development of new entrepreneurial activities; Rebecca Kohl, the new Director of Development for Wright State, who introduced us to a potential donor; John Ames, VP at QinetiQ, a company interested in physiologic monitoring clothing, and the excellent staff at Congressman Steve Austria's office. Combine this with a unique access to the Wright State leadership, the tremendous support and engagement of regional leadership including the Dayton Development Coalition and the opportunity to engage with former Congressman Dave Hobson; it is easy to see that although sometimes the going is slow, the scenery is always changing and of interest.

EMPOWERING PROJECT COMPLETES A MILESTONE

You might recall the Montgomery County Medical Society sponsored the Empowering Project in which we were working with the assistance of the Greater Dayton Hospital Association to bring back-up power capability to the public health clinics, mental health clinic and homeless clinic in Montgomery County. Just last month we reached a milestone, when five of the six planned sites were completed. This means they have the capability of switching from DP&L grid-based power to a plug-in generator power to maintain their facilities electrical capability. We are currently testing each of these sites and then plan to move onto at least 2-3 new sites during the coming year. The idea is to build an additional concentric ring of resiliency around the hospitals in terms of clinic capability and response in the face of loss of power. We have fully enjoyed working with a variety of individuals including those at each of the clinics and also Pat Bernitt at GDAHA, Rich Simpkins at Woolpert, and the folks at Chapel electric. We hoped to have this project completed by mid-year 2011 and add a small upgrade to the resiliency of our healthcare system.

PERSONAL NOTE

Our final daughter, Elizabeth, graduated from High School last summer. We decided to move more slowly on the next steps of her education and take the opportunity for some

travel in the world. She had developed a sincere interest in ancient civilizations during her classes, and last September we made those civilizations 'come alive' with a wonderful trip to Italy, Greece, and Turkey. By combining two weeks land with two weeks of cruising, we were able to move around the Eastern Mediterranean in a comfortable manner and totally 'saw the sights'. We arranged wonderful guides in Rome, Florence, Athens, Istanbul, and Ephesus. Ephesus came as a complete surprise to me, an intact 200 B.C. to 450 A.D (fall of Roman Empire) city that was still being uncovered. To walk the same streets where Anthony and Cleopatra took their honeymoon and stand in the amphitheater where St. Paul spoke was to sweep away two millennia of history. These people had much in common with us today. The engineering was unbelievable considering the types of tooling that they had and their complete mastery of geometrical mathematics was most clear. The entire trip from the Coliseum to the Acropolis to the Greek Islands to the Ephesus library was the most visually exciting and rewarding trip we have ever taken. It was fun and meaningful to breathe life into sterile textbooks describing these sites. I have attached three of the thousands of photos we have from the trip. If you would like to see them all just plan a weekend and come on by.



Library in Ephesus



Coliseum in Rome



Cruising

GARRISON IS HONORED

Dr. **Richard Garrison**, a 1983 graduate, was recently honored by Oakwood's Public Safety Department and City Council for his 26 years of service as medical director of the Public Safety Department. He served as Oakwood's medical director on a volunteer basis from 1983 to 2009. Dr. **James Huizenga**, a 2003 graduate, replaced Garrison in 2006, while Garrison continues to serve as the city's health commissioner.



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