



# Orthopaedic Surgery Quarterly Review

## HAPPY NEW YEAR ORTHOPODS!!!

### 2010 Upcoming Events

- Faculty Meeting – 1/18, 2/15, 3/15, 4/19
- ORS Annual Mtg., 11-14, New Orleans, LA
- AAOS-Mar. 9-13, New Orleans, LA

### Happy Birthday!!!

#### JANUARY

- 13-Pat Hines                      15-Karen Weil
- 17-Joann Holzinger            21-Synthia Bethea

#### FEBRUARY

- 9-Jeffrey Krempec            10-Julie Colantoni
- 16-Nady Hamid                17-Bryan Loeffler
- 17-Josh Patt                    21-Sherry Weeks

- 22-Norman Waldrop    23-Keith Gettys

#### MARCH

- 29-Gretchen Hoelscher

### CONGRATULATIONS!!!

Norman and Meredith Waldrop welcomed Norman E. Waldrop, IV "Cort" into the world on November 20, 2009 weighing 7lbs. 7oz.



### The Department of Orthopaedic Surgery

- Edward N. Hanley, Jr., MD, Chairman
- James F. Kellam, Vice Chair
- Brian K. Brighton, MD
- Michael J. Bosse, MD
- Daniel T. Davis, MD
- Steven L. Frick, MD
- Helen E. Gruber, PhD
- Madhav A. Karunakar, MD
- Jeffrey S. Kneisl, MD
- Joanne E. Labriola, MD
- David R. Mauerhan, MD
- Joshua C. Patt, MD
- Richard Peindl, PhD
- Stephen H. Sims, MD
- Shankari Somayaji, PhD
- Yubo Sun, PhD

## Orthopaedic Surgery says Goodbye to Former Trauma Fellow, CDR Michael T. Mazurek, MC USN

Naval Officer and orthopaedic trauma surgeon, Mike Mazurek, passed away on Nov. 7, 2009, 22 days after sustained injuries while riding his bicycle to work. Mike is well known to staff in the Department of Orthopaedic Surgery as he spent a year here in 2001-02, under the direction of our trauma physicians, James Kellam MD and Michael Bosse MD, who also mentored Mike and continued working with him on several trauma committees up until his passing.

Mike leaves to mourn, his wife Lisa, and three boys, Adam-9, Dylan-3, and Spencer- 10 mos. He was laid to rest on Veteran's Day, November 11, 2009. In a eulogy to Maz, Dr. Michael Bosse had this to say to his family (summarized):

*All of us are saddened by our loss of Michael. Maz touched all of our lives in very positive and very personal ways. The 950 postings and over 20,000 visits on the "Caring Bridge" over the last 3 weeks reflect the sincere love and respect that all of us have for Mike and the Mazurek family. We all recognize that Michael was a rarity – that he was the total package. First and foremost, he was a loving husband and father. Lisa and his boys were the focus of his life. Many of us also knew him as a great surgeon and a dedicated Naval Officer. He was a good friend, a great colleague, a mentor, a positive role model and a loyal shipmate to many of us. Mike and Lisa came to Charlotte NC, fresh out of residency in 2001 so that Mike could perfect his interest in trauma surgery. In that year, Mike wove himself into the core fabric of our Department and during that time, he became my close friend. Mike was different from any resident or fellow I've worked with - before or since. He had uncommon poise, confidence and*

*competence - perfected, perhaps, by his*

*San Diego Navy Orthopaedic training and his Marine Corp Battalion Surgeon GMO tour, but clearly gifted to him at birth, refined by his parents and encouraged by Lisa. Those who have had the chance to work with Maz understand these memories. Every day was a pleasure, every challenge was an opportunity, everyone was a friend. Regardless of the circumstances, Maz was always caring, always focused, always thinking, always acting decisively, and, importantly, always smiling. In tough spots, his humor eased the tension and his calmness gave confidence. With Maz, work was fun and the days went fast. Working with Mike, at first, required a re-set of the usual formal academic decorum. As many of you know, Maz was gifted at being "respectfully – disrespectful". It was usually at the right time and it always got your attention. I recall that early in his fellowship, Mike was annoyed at the game plan for a particularly hard case. He challenged – "Boss- you're lucky that you're out of the Navy." I asked why, unknowingly setting myself up. His reply was instant.... "Because you've got to be buzzed to come up with a plan as dumb as this - --- doubt you could pass a drug test today." His mask covered his lower face, but his eyes were laughing. We changed the plan. Typical Maz. CDR Michael Mazurek was a professional US Naval Officer who happened to hold the designator of an orthopaedic surgeon. Mike was a natural leader. He did things right. His moral compass was always at true north. He established and maintained high standards for himself and expected the same of others. He had a knack for boiling hard issues down to the basics, the ability to say the hard things that needed to be said and the compassion and in-sight to "fire-and-forget" --- once said, once done - over.*

Messages on the "Caring Bridge" showed that so many of his sailors thought so highly of him and that they cared so deeply for him. Many mention how he served as a positive role model. If such affection is the truest measure of the worth of a Naval Officer, then CDR Mazurek was priceless.

Maz was clear in thought --- "Grey Areas" were sections on the hull of a Navy ship. Hard issues were black and white. Many of us sought and valued his opinions -- as his point blank approach to critical issues was refreshing.

Michael was recognized locally and nationally as a gifted teacher and mentor. A few years ago, Maz and Lisa rejected offers from top civilian academic trauma centers in favor of continued service to the Nation and the Navy. Mike was committed to the San Diego Navy Orthopaedic Program and to a Navy and Marine Corps at war. Their decision had impact.

Messages from some of his past residents on the "Caring Bridge" testify to the influence that Maz had on their professional development. The excellent care his former residents continue to provide to our soldiers, airmen, sailors and marines will be one of Michael's lasting legacies. Likewise, the messages from his former patients that expressed gratitude for his outstanding care are a testament to not just his excellent surgical skills, but to the personal and compassionate care that he always provided to all patients.

Maz was especially passionate about the care provided to our wounded warriors. Like many other Navy, Army and Air Force physicians, Mike's selfless and courageous combat service undoubtedly resulted in the saving of many lives and limbs. At national trauma research strategy meetings, Michael continually challenged all of us in the Orthopaedic Trauma Arena to develop new methods to improve the care and outcomes of the combat casualties. Extremity Trauma Clinical Research programs that he helped to champion are starting next month in major trauma centers across the country. Mike's spirit will continue to be a driving force in these research efforts. This we promise.

On every level, Maz DID IT RIGHT. His impact on us will be long lasting. Should Mike's friends and colleagues find themselves caught in the cross hairs of clinical, leadership, ethical or moral dilemmas, our first thought should be "What would Maz do"?

His memory should help to guide us to the right course of action.

Mike's sudden passing leaves a huge void in all of our lives. His time with us, however, should always be remembered and cherished ---- Mike's smile, his laughter and his zest for life engrained in our memories.

Like everyone here, I'm so proud of Mike and thankful that I had the chance to be a friend of the Marurek family.

Lisa -- our thoughts and prayers will continue to be with you and the boys. God Bless Michael -- our friend and our shipmate.

Michael J. Bosse, CAPT, MC, USNR  
(ret)  
11 November 2009

### **Publications**

**Gruber HE, Hanley EN Jr, Sun Y:** Digital Histologic Images: Practical Pointers for Successful Electronic Submission to Biomedical Journals. *Biotechnic & Histochem*, 84(6):295-298, 2009.

**Gruber HE, Ingram J, Zinchenko N, Hanley EN:** Practical Histologic Methodologies for Use with Cultured Cells. *Biotechnic & Histochem*, 84(6):283-286, 2009.

**Gruber HE, Ingram JA, Hoelscher GL, Zinchenko N, Norton HJ, Hanley EN Jr:** Matrix metalloproteinase 28, a novel matrix metalloproteinase, is constitutively expressed in human intervertebral disc tissue and is present in matrix of more degenerated discs. *Arthritis Research & Therapy* 2009, 11:R184. <http://arthritis-research.com/content/11/6/R184>.

Pollak AN, Jones AL, Castillo RC, **Bosse MJ**, MacKenzie EJ, LEAP Study Group: The relationship between time to surgical debridement and incidence of infection after open high-energy lower extremity trauma. *J Bone Joint Surg*, 92A(1):7-15, 2010.

Rude RK, Wei L, Norton HJ, Lu SS, Dempster DW, **Gruber HE:** TNF $\alpha$  receptor knockout in mice reduces adverse effects of magnesium deficiency on bone. *Growth Factors*, 27(6):370-376, 2009.

**Tapp H, Deepe R, Ingram JA, Yarmola EG, Bubb, MR, Hanley EN Jr, Gruber HE:** Exogenous thymosin  $\beta$ 4 prevents apoptosis in human intervertebral annulus cells in vitro.

*Biotechnic & Histochem*, 84(6):287-294, 2009.

Archer RK, MacKenzie EJ, **Bosse MJ**, Pollak AN, Riley LH: Factors Associated with Surgeon Referral for Physical Therapy in Patients with Traumatic Lower-Extremity Injury: Results of a National Survey of Orthopaedic Trauma Surgeons. *PT Journal*, 89(9):893-905, 2009.

O'Toole RV, Castillo RC, Pollak AN, MacKenzie EJ, **Bosse MJ:** Surgeons and their Patients Disagree Regarding Cosmetic and Overall Outcomes After Surgery for High-Energy Lower Extremity Trauma. *J Orthop Trauma*, 23 (1), Nov/Dec, 2009 716-723, 2009.

**Starman JS**, Castillo RC, **Bosse MJ**, MacKenzie EJ. Proximal Tibial Metaphyseal Fractures with Severe Soft Tissue Injury: Clinical and Functional Results at 2 Years. LEAP Study Group. *Clin Orthop Relat Res*. 2009 Oct 28. (Epub ahead of print)

### **Presentations**

**Capo JA, Kuremsky MA, Gaston RG\*:** Sesamoid fractures of the lesser digits. Am. Society for Surgery of the Hand. San Francisco, CA, Sept. 3-5, 2009.

Delemarter RB, **Murrey DB**, Janssen M, Goldstein J, Zigler JE, Goldstein J, Tay B, **Darden BV:** Results from the prospective, randomized mult-center IDE trial of prodisc-C versus ACDF with 4 year follow-up and continued access patients. EuroSpine, Warsaw, Poland, Oct. 21-24, 2009.

**Gruber HE\***, Norton HJ, **Hanley EN:** Disc cell senescence in vivo: Increased cell senescence is associated with decreased cell proliferation in the human annulus. NASS, San Francisco, CA, Nov. 13, 2009.

**Kneisl JS:** Oncologic limb salvage vs. amputation decision making. Medical Education Conference-Carolinas Rehabilitation, CMC, Charlotte, NC, Oct. 9, 2009.

**Loeffler BJ, Kellam JF, Sims SH, Bosse MJ:** Donor site morbidity after iliac crest bone graft. NCOA, Pinehurst, NC, Sept. 25-27, 2009 (**Third Place, Resident Paper Awards**)

**Patt JC:** Evaluation and management of spine tumors. NC Spine Society, Pinehurst, NC, Aug. 28-29, 2009.

Puckett B, **Gaston RG\***, et al:  
Remodeling potential of phalangeal  
distal condylar malunions in children.  
Am. Society for Surgery of the Hand,  
San Francisco, CA, Sept. 3-5, 2009.

**Starman JS, Loeffler B, Bosse MJ,**  
Norton J. Poster. Retrospective  
Comparison of BMP-2 versus Iliac  
Crest Bone Grafting in the Treatment  
of Tibial Shaft Non-union, OTA 2009  
Annual Meeting

**Biology Research Christmas Elves  
were at it again...**

In December 2009, the Orthopaedic  
Biology Research Christmas Elves  
donated gifts, funds for sweatshirts,  
and school supplies to the first grade  
class of Amanda Whitman at Nations



Ford Elementary School.

Class gifts of games for rainy days,  
pencil top erasers, markers and more  
were collected along with all kinds of  
stocking stuffers. Many donated  
money to pay for warm school  
sweatshirts for the children in the  
class. We look forward to doing this  
again next year!

Thank you to Orthopaedic Biology  
Research staff: Dr. Helen Gruber, Dr.  
Yubo Sun, Synthia Bethea, Khristina  
Bretthauer, Atiya Franklin, Gretchen  
Hoelscher, Jane Ingram, Ryan Phillips,  
Frank Riley, Dr. Shankari Somayaji,  
Natalia Zinchenko and Michael Gellar  
from Emergency Medicine Research  
for their donations. Special thanks to:  
Park Road Books (Park Road shopping  
center) for their generous donation; to  
Drs. Peleaux, Bailey & White for  
donation of toothbrushes and tooth

paste; to Dr. Jim Norton, Sylvia Byars,  
Pam Osborn, Deanna Williams, Daisy  
Ridings, and David Radoff for generous  
donations for sweatshirts, and to  
Nancy Phillips for office supply  
donations.

**ANNOUNCEMENTS**

***Mark your calendar...The  
2010 House Staff Graduation  
Banquet will be held  
Saturday, June 19, 2010, 6:00  
pm-12:00 am, Hilton  
Charlotte Center City, 222  
East Third Street, Charlotte  
NC.***

**Carolinas Medical Center  
Department of Orthopaedic Surgery  
Welcomes**

**Richard Gross, MD**

**"What I've Learned - A Career in  
Orthopaedics and Education"**



**Medical University of South Carolina  
Professor, Dept. of Orthopaedic Surgery and  
Pediatrics, Medical University of South Carolina  
Charleston, South Carolina  
Monday, February 22, 2010  
Medical Education Building - 4A  
Grand Rounds - 7am**