**Howard R. Hughes College of Engineering**
**College Advisory Meeting**
**Date: 06/10/2011**
**Time: 8:00 a.m.**
**SEB Conference Room #2251**

**Meeting Minutes**

**Welcome** – Dr. Rama Venkat

**In Attendance:** Fred Cox, Jeff George, Zane Wilson, Henry Osterhoudt, Tony Hills, Greg Korte, Bradford Colton, Mark Newburn, Chad Miller, Dominic Marrocco, Lisa Freestone, David McElwain, Curtis Horton, Alexander Marquez, Sara Portzel, Dr. Nicholas Fiore, Dr. Woosoon Yim, Dr. David Ashley, Dr. David Shields, and Judi Dohnn, and etc.

**New Business:**

- Board Member Nominations
  - Dominic Marrocco- Honorary Fellow, College of Engineering
  - Zane Wilson- Varian Medical Systems
  - Will vote on Michael Mohar at the September 9th meeting. (please see attached bios)

- Introduction of Sara Portzel- new Director of Development (please see attachment)

- I met with the provost today and the budget situation for the college is excellent considering what we faced a couple of months ago. We will be required to cut our budget by $488K. Part of this can be taken care of with the two VSIPs, one resignation and one reduction to 50% time. Overall, we can manage the budget cut with open lines and VSIPs and resignations. Thus, there will be no loss of tenured or tenure track lines. This is part of the budget plan that will be submitted to the Board Regents and we expect that they will most probably approve, only then the plan becomes official.

- The search for a new chair of the Civil Engineering department is nearly complete and the dean expects to formalize things within a couple of weeks. Two new faculty have been hired and will be announced at the next meeting.

- The dean is working on increasing our focused research funding. Last year we were at $7M. He wants to eliminate our reliance on earmarks and has exciting plans for next year.

- The Senior Design Competition and Dinner was a great success! We had nearly 500 attendees. Smell-O-Vision won the Grand Prize and the others are listed on the attached document. Cirque du Soleil performed for us and Mr. Cox launched his the Pin Is In" program of awarding graduates of the college, alumni, and donors a

lapel pins that denote their level of contributions to the college. For more information on the program, please contact Sara Portzel at 702-895-2913 or sara.portzel@unlv.edu

- The Graduate Celebration was very well received. We had nearly 30 students participate in the poster competition and gave out awards for Best Thesis and Best Dissertation.

  **First Place Winner**: Puneet Lakhanpal, Advisor: Dr. Kachroo, An Optimal Data Entry System using PDAs for Seat-belt Usage Studies

  **Second Place Winner**: Ajay Kalra, Advisor: Dr. Ahmad, Association of Oceanic-Atmospheric Oscillations and Hydroclimatic Variables in the Colorado River Basin. Dr. Kalra was also the winner of the Best Dissertation Competition.

  **Best Dissertation**: Ajay Kalra, Advisor: Dr. Sajjad Ahmad

  **Second Place Winner**: Lei Zhang, Advisor: Dr. Emma Regentova

  **Best Thesis**: Helena Murvosh, Advisor: Dr. Barbara Luke

  **Second Place Winner**: Nihad Rajabdeen, Advisor: Dr. Dr. Barbara Luke

- Mendenhall Faculty "Hands-On" Competition was very successful. The prototypes were very good. Projects are intended to be integrated into curriculum.



**New Business:** Board Nominations for Michael Mohar and
**Next Meeting Date/Time:** Friday, September 9, 2011
**Adjourn**

# Howard R. Hughes College of Engineering

# Honorary Fellow– Dominic Marrocco



## Dominic Marrocco– "Entrepreneur In Residence"

Dominic can best be described as a serial entrepreneur. At 37 Dominic, who is originally from Leeds, UK, divides his time between the UK and US where he runs businesses in property, IT, his own venture capital fund, and supporting multiple charities. His success story (he became a millionaire at 21) is one of inspiration for budding entrepreneurs and future business leaders.

Having graduated from Harvard's renowned business leadership course - the Owner/President Management Program (OPM) and been awarded the status of Visiting Fellow of Bournemouth University's Business School, Dominic takes on the challenges of diversifying the economic base of Sin City by encouraging technological growth and developing a productive intellectual property component for UNLV's College of Engineering,. Recently named an 'Honorary Fellow' of the College, Dominic sees his relationship with UNLV as timely and essential. By inspiring students to follow in his footsteps, he can help redirect the goals of the college and its research in directions that will provide self –sustaining projects and build relationships with industry that can ensure the college's longevity. He believes the role of education, in addition to developing business acumen, is invaluable and crucial to creating sustainability. Dominic sits on several UNLV boards including the UNLV Foundation's Advisory Board and he was recently invited to participate on the newly formed *Intellectual Property* committee within the College of Engineering.

***STATS***

Dom is a **Gemini**

Born: June 3, 1973

Favorite Color: Green

Favorite Movie: *Ferris Bueller's Day Off*

Lucky Number: 33

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# CV – Zane J. Wilson

Zane Wilson received a BS, in Aviation Engineering and an MS, Engineering from San Jose State University. He completed the Advanced Management Programs at Stanford University while as a staff member there. During his undergraduate program he also trained for a career in US Naval aviation. Zane is a highly trained pilot, and continues to fly to this day.

At Stanford, he worked for the US Department of Energy (DOE) at the Stanford Linear Accelerator Center (SLAC), starting as a student advancing to head of all klystron operations in the Klystron Department and at the lab. The Klystron/RF Department is responsible for development, & production of high power RF systems used in current experiments at the Stanford Linear Accelerator (namely the LCLS, PEPII B-Factory & Stanford Synchrotron Radiation Laboratory's Spear III). The operational responsibility totaled of some 400 klystrons ($150M) and 40 personnel.

Zane was also assigned as the reliability program manager for the DOE's Next Linear Collider (NLC) a proposed $6B project. This responsibility was to define, support, & manage all reliability engineering activities & personnel across the project. The project was ultimately not built but the 3 year design process was a great training experience.

Also while at Stanford, Zane was active with the DOE on issues ranging from advance accelerator development to SBIR review to counter-terrorist activities. He was a "dual-badge" holder working both for Stanford University and US DOE.

Zane left DOE briefly in 1999 to work for Applied Materials, the leading semiconductor equipment manufacture as a new systems program manager but shortly was promoted to Manufacturing Operations Engineering Manager and Deputy of Pilot Manufacturing. Pilot Manufacturing is responsible for design, development, & production for newly released wafer fabrication systems. The systems are 1st production runs out of engineering & are shipped directly to Applied customers. Pilot Manufacturing also leads the corporation in innovation of new product commercialization & new manufacturing process development & testing.

The events of 9/11 caused Zane to return to the DOE, due to his experience with counter-terrorist activities, rf systems and weapons of mass destruction. This experience is also what caused him to be recruited by Varian Medical Systems in 2004.

He joined Varian Medical Systems in Palo Alto as a program manager and was assigned to Security & Inspection Productions group in Las Vegas. As a program manager and Director of Engineering he continued to worked on high power microwave klystrons, for use in cargo screening systems, industrial CT and medical accelerators. He led a number of successful R&D programs; of particular relevance was a US Department of Defense-sponsored development of a 1-MeV portable scanning system and a dual energy 9/6 MeV cargo system driven by a klystron, which represented a next generation improvement in the state of the art at that time.

He eventually became Director of Varian's Focused Energy Systems (FES), the position he holds currently. FES is an advanced technology group which produces power-grid tubes, klystrons, TWTs, and a variety of systems and subsystems based on these devices for directed energy security and military applications. FES products include active denial, CIED sources and advanced remote sensing systems. Zane is responsible for all aspects of FES including personnel, process development, safety, R&D, production and business development.

He holds a number of joint patents on microwave devices, and continues to promote development of the next generation of engineers, by working closely with state and federal governments as well as various universities (Stanford, UNLV, University of Alabama, etc.)

# 2011 Spring
# Fred & Harriet Cox Senior Design Awards

**GRAND PRIZE WINNER- $2,500**
Project: Smell-O-Vision
Team Members: Charbel Azzi, Steven Correia, Jorge Reynaga
Instructor: Dr. Paolo Ginobbi
Faculty Advisor: Dr. Rama Venkat

**Civil Engineering 1st Place- $1,000**
Project: Colorado River Replenishment
Team Members: Blake Gonska, Barry Bender, Daisy Madrigal
Instructor: Dr. Alexander Paz
Community Advisor: Dr. Thomas Piechota

**Civil Engineering 2nd Place- $500**
Project: Sunrise Mountain Pump Storage
Team Members: Jonesha Inman, Efraim Balizan, Shauncy Maloy
Instructor: Dr. Alexander Paz
Faculty Advisor: Dr. Thomas Piechota

**Electrical & Computer Engineering 1st Place- $1,000**
Project: sUAS Autopilot
Team Members: Kyle Comstock, Eric Gebs, Joseph Wolf
Instructor: Dr. Paolo Ginobbi
Faculty Advisor: Dr. Yingtao Jiang

**Electrical & Computer 2nd Place- $500**
Project: Fire Alarm Notification and Detection Device
Team Members: Ezra Hartz, Ryan Peeples, Hamid Moradi
Instructor/Faculty Advisor: Dr. Paolo Ginobbi

**Mechanical Engineering 1st Place-$1,000**
Project: Autopod
Team Members: Alberto Paulino, Ryan Tardy
Instructor: Dr. Brendan O'Toole

**Mechanical Engineering 1st Place- $1,000**
Project: M.A.S.H. Tool
Team Members: Jeremy Lusk, Nic Smith, Travis Zeller
Instructor: Dr. Woosoon Yim
Faculty Advisor: Mr. Kevin Nelson