



ENGINEERS MAKE THINGS ... Industrial engineers make things better!

Monthly Newsletter

September 2011

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- Gold Award of Excellence '05, '06, '07, '08, '09, '10
- Silver Award of Excellence '02, '03, '04
- Most Improved Chapter of the Year '02
- Bronze Award of Excellence '01

Hello to all Industrial Engineers and Friends of Industrial Engineers,

Welcome to our monsoon September newsletter.

As discussed last month, Reno was great. Our director Patrick Foxworthy got his 15 minutes of fame at Reno. Well actually two seconds of fame. Check out Patrick on the IIE's website video of the conference. Patrick stars in seconds 58 to 59. <http://iieblogs.org/2011/08/page/2/>

I hope August wasn't too shaky for you! If so, you may want to review my short article on what to do during and after an earthquake. It was provided from my friends at Homeland Security.

It wasn't funny as it happened, but I had a friend scheduled to depart from a local airport on the day of the earthquake. Before this happened, there was a bomb threat. Planes were evacuated along with the terminal areas. A package was exploded and the crowd was warned before this happened. However, almost immediately after the bomb exploded, the ground started shaking! Airports are built somewhat differently than most of the other building in our area. More and bigger bouncing equates to better earthquake resistance. Most of the crowd ran for their lives including my friend. He was able to laugh a few days later when he told me his little story.

I was on the 7th floor of a building overlooking the Pentagon. The noise was very different from just high wind, a tornado, hurricane or cyclone. Been there and done that for all three of these. The chair I was in and the conference table bounced up and down. At home my dog was still upset when I got home from work.

My wife was driving down the road in my car. This was her first time in the driver's seat. She wondered how the car managed to bounce more on my side than hers; probably some engineering adjustment I did so I could either have more fun or keep awake while driving!

Then she noticed people evacuating from a building and thought it might have had a fire alarm go off. Same thing next building and this could not be a coincidence. The third building, same thing; maybe there was a terrorist attack in progress. By this time, as with most locals; she got a call from her family far away from DC making sure she was alright.

As earthquakes go this was nothing. Below is a list of the five deadliest earthquakes in recorded history;

Date	Location	Deaths	Magnitude
01/23/1556	Shaanxi (Shensi), China	830,000	8
01/12/2010	Haiti region	316,000	7.0
07/27/1976	Tangshan, China	242,769	7.5

Newsletter Platinum Award '07, '08, '09
 Newsletter Gold Award '06
 Newsletter Silver Award '10

Vital Statistics

Finances as of Aug 2011:

Total \$ 25,924

Members as of Sep 2011:

Total 225

08/09/1138 Syria, Aleppo 230,000
 12/26/2004 Sumatra 227,898 9.1

San Francisco on April 18, 1906 had 3000 deaths associated with it. This is tied for 60th place. Many factors contribute to our earthquakes being less life-threatening and severe. Engineer and science are two of these factors.

In addition to my article on earthquake system, our famed Patrick Foxworthy has contributed a Blog entry at the IE website. You can find Patrick's article within our newsletter or go to <http://www.iienet2.org/Default.aspx> to read many interesting blogs.

Until next month,

Russell Wooten
President IIE National Capital Chapter

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Contact Us

IIE National Capital Chapter
 c/o OMNI Engineering &
 Technology, Inc.
 8200 Greensboro Drive
 Suite 900
 McLean, VA 22102

Tel: +1.301.279.2686 (Richard Leshuk)

Tel: +1.800.494.0460 (IIE)

Email the editor:
editor@iienationalcapital.com

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2012 IIE National Capital Chapter elections

Chapter elections are forthcoming for the 2012 Chapter Board of Directors. If you are interested in learning more about the leadership opportunities and activities, please don't hesitate to contact any one of the current Board Members or our current Chapter President (Russell Wooten - russell.wooten@iienationalcapital.com)

Event Announcement: Winery Tour

The Chapter is hosting a winery tour at Lost Creek Winery and Vineyards in Leesburg (<http://www.lostcreekwinery.com/>). We look forward to tasting their fine wine offerings and a facility tour by the owner himself. The tour is scheduled for October 2nd at 2pm. Cost as subsidized by the Chapter is \$5 per member and guest (total).

For those interested, please contact Patrick Foxworthy to co-ordinate carpooling from West Falls Church metro, leaving at 1pm.

RSVP: <http://iie14winerytour.eventbrite.com>

For more information or any questions, please contact Patrick Foxworthy, Chapter Director, at 810-338-5621 or patrick.foxworthy@iienationalcapital.com



NATS Sell Out, Shut Out by Phils at August 20 Chapter Ballgame Outing

- Submitted by Joe Scheibeler, Chapter Secretary

At the second of this year's two IIE National Capital Chapter Scholarship fundraisers for the Marvin Mundel Memorial Scholarship, the Nationals lost to the Phils 5-0 on Saturday night August 20. On a warm clear night in SE Washington DC, the Phils got hot while the NATS did not. The game was close with the Phils ahead 2-0 at the start of the 6th inning. But Pence led off for the Phillies with a home run followed by four base hits as the visitors batted around scoring 3 runs for the final 5-0 score. Oswalt pitched 8 shutout innings for first place Philadelphia, scattering 8 hits and striking out 9, while Lannan took the loss for Washington.

Record Crowd

Combined with the July 30 Nationals game, the chapter raised \$208 toward the IIE Mundel scholarship fund. Although we had a few more ticket requests after our reservation deadline, there were no more tickets available from the Nationals, as the ballpark was a complete sellout for this game which set a Nationals Park single game attendance record. I was fortunate to be among the first 15,000 fans entering the ball park who received an Ian Desmond bobblehead, so it wasn't a total loss. I was also lucky to catch one of the NATS t-shirts thrown into the upper deck at the chapter's July 30 ballgame outing.

Evening Program: Eliciting Bounded Alternatives by Russ Vane, PhD

Washington DC Chapter of the Institute for Operations Research and the Management Sciences (WINFORMS)

AND The National Capital Chapter of the Institute of Industrial Engineers (IIE)

Tuesday, September 20, 2011 starting at 6 pm
Booz Allen-Hamilton

Program

In this highly interactive session, Dr. Vane shows how to discover and record organizational models about the present, past and future using subject matter experts. His example will be an IT project. He describes how to start, perform and stop the process. This presentation has proven

to be is particularly helpful for independent consultants, project managers, and policy makers (or their staff). Doctoral students are most welcomed.

In the last 44 months, Russ has led and facilitated nearly 200 wargames related to current US conflicts and improvised explosives. Concepts discussed will include Operational Closure and Hypergame Theory.

Location

Booz Allen McPherson
901 15th St. NW Suite 400 Washington, DC 2005
Upon arriving at 901 15th St. take the elevators to the 10th floor.

For more information, including speaker Bio and event directions, please refer to:

<http://www.iienationalcapital.com/events/evening-program-eliciting-bounded-alternatives-by-russ-vane-phd/>

Technology Transfer Course

Innovation must be implemented if value is to be realized. Technology Transfer deals with the policies and mechanisms that allow innovation to be moved from the laboratory into societal use. This fall, IIE Chapter Member, Richard Leshuk will be leading a group of practicing technology transfer professionals who will present introduction to the topic, providing an overview of contemporary practice.

Technology Transfer: Issues and Processes, Fall 2011

GS Graduate School, Capital Gallery
600 Maryland Ave. SW, Washington, DC 20024-2520
10 Thursday Evening Sessions - 6 to 9 PM, 9/22 - 12/1
The lecture series is open to the public; there are no prerequisites; tuition is \$375.

Details can be found at the Graduate School web site.

http://www.graduateschool.edu/course_details.php?cid=PUAP4439E
or contact Richard Leshuk at 301/
279-2686, rleshuk@iienationalcapital.com

Enterprise Transformation Conference 2011

Oct. 4-5 at the Westin Buckhead Atlanta

For more information: <http://www.iienationalcapital.com/events/enterprise-transformation-conference-2011/>

Are you ready for and unexpected job interview?

Most job seekers wait to polish up their interview skills until they are looking for a new position. Important interview opportunities, however, can present themselves at any time.

Read the rest of the article here: <http://www.iienationalcapital.com/careers/are-you-ready-for-an-unexpected-job-interview/>

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Deborah Walker, Certified Career Management Coach  
Read more career tips and see sample resumes at:  
[www.AlphaAdvantage.com](http://www.AlphaAdvantage.com)  
email: [Deb@Alphaadvantage.com](mailto:Deb@Alphaadvantage.com)

## **IIE Young Professionals Blog: Preparing for crazy!**

*By Patrick Foxworthy  
Multi-discipline systems engineer and IIE Chapter 14 Director  
Kettering University, 2008  
Posted August 23, 2011*

In light of recent events here in Virginia, namely the 5.9 earthquake felt early this afternoon, I began to think about how our wide range of IE skills can be applied to the practices of emergency preparedness, response and recovery. Fortunately, at the time of this writing, it appears there has been minimal overall impact to our critical infrastructure, although as usual our wireless communications networks were stressed to capacity for up to 20-30 minutes following the actual event.

To read the rest of the blog article: <http://iieblogs.org/2011/08/23/preparing-for-crazy/>

## **Earthquake: Simple do's and dont's**

*- Submitted by Russell Wooten*

### **During an Earthquake**

During an earthquake, if you are inside a building remain in the building and move away from any windows, glass partitions or any other furniture that could fall over as a result of the earthquake. For safety, you should take cover under tables and desks if possible. People in elevator lobbies or corridors should lie face down alongside an interior wall. Elevators usually have a seismic switch, which will slow the cab and stop it at the nearest floor. Once on that floor, the doors will open and passengers should remain in the elevator lobby. Individuals outside of the building should remain outside and should move away from the building to avoid being hit by any falling debris. Most injuries during earthquakes occur when people try to exit or enter a building.

### **After an Earthquake**

Professionals should assess the condition of buildings to ensure that all utilities such as gas, water and electricity are operational. They will also verify all building operating systems such as the life safety system, energy management system, central plant equipment and security systems. Professional should also inspect as much of the physical structure as possible and will note any structural damage.

## **About IIE**

The Institute of Industrial Engineers (IIE) is the world's largest professional society dedicated solely to the support of the



industrial engineering profession and people involved with improving quality and productivity. Founded in 1948, IIE is an international, non-profit association that provides leadership for the application, education, training, research and development of industrial engineering. With more than 15,000 members and 277 chapters worldwide, IIE's primary mission is to meet the ever-changing needs of its membership, which includes engineering practitioners and consultants in all industries, engineering managers, engineers in education, research and government and undergraduate and graduate students.



### About IIE National Capital Chapter

The National Capital Chapter of the Institute of Industrial Engineers has proudly and professionally represented the Institute of Industrial Engineers and its members in Northern Virginia, Southern Maryland and Washington DC since 1953. We are a non-profit association that provides leadership for the application, education, training, research, and development of industrial engineering. Chapter members are members of the Institute of Industrial Engineers and include undergraduate and graduate students, entry-level engineers, engineering practitioners and consultants in all industries, engineering managers, and engineers in education, research, and government.



For a complete list of the current Board of Directors, including contact details, please visit the Chapter website at <http://www.iienationalcapital.com>

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IIE National Capital Chapter | c/o OMNI Engineering & Technology, Inc. | 8200 Greensboro Drive | Suite 900 | McLean | VA | 22102