



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

Monthly Newsletter

October 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 October newsletter. This newsletter is loaded with great articles. Please enjoy reading all of them. Here is a summary of some of them:

- National Cybersecurity Awareness Month; Protect Yourself Online - Use Social Networking with Caution
- IIE / WINFORMS Joint Evening Program on 10/18
- Kick off Fall with a Better Career; Job Seekers Strategies
- GE Software Web Seminar Series
- Moneyball; it's all IE, OR and Analytics
- IIE / WINFORMS joint efforts in social networking and mentoring
- Learn how to become a better IE manager in just one day!
- Dr. Averill M. Law; DC Schedule of Modeling and Simulation Training
- SEMS new on-line Newsletter and their first featured member bio
- Baby Boomers, Beware! Don't Let Your Resume Date You! by Deborah Walker
- And much more, please don't consider this an index. It is your invitation to our October Newsletter.

Until next month,

Russell Wooten
 President IIE National Capital Chapter

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)

Evening Program: The Mathematical Theory of Negotiations and Coalition-Building

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, October 18, 2011 starting at 6 pm
 IBM, 600 14th Street NW, 2nd Floor, Washington, DC 20005

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

Vital Statistics

Finances as of Oct 2011:

Total \$ 26,546

Members as of Oct 2011:

Total 222

Welcome New Members:

Daniel Dethloff
 Caitlin Kenney

Thank You to Renewing Members:

Altyn Clark
 Sanjay Jain

Next BOD Meeting:

November 12, 2011 at 9am

Program

The Mathematical Theory of Negotiations and Coalition-Building; We present the mathematical economics of group formation and negotiation, building on earlier work on the allocation of senior decision-makers' attention. Constituent groups seek to maximize their net benefits from negotiation, taking into account costs, including the cost of compensating negotiators and other parties who may extract some benefit from the transactions. Groups form and cohere only when their members benefits from doing so; in some cases, only a leader derives sufficient benefit to make it worthwhile to drive formation of the group. Negotiators do not always act in the interest of the constituent parties. Hence it is impossible to run an organization or a complex negotiation without payoffs most people would view as corrupt. The efficient solution is to structure such payoffs to be predictable and to resist frequent renegotiation.

Program

Douglas A. Samuelson is President and Chief Scientist of InfoLogix, Inc., a research and development company in Annandale, Virginia. He has also been a Federal policy analyst, inventor, high-tech entrepreneur and executive, and university faculty member. He is perhaps best known for his popular and long-running "The ORacle" column in OR/MS Today. He has a D.Sc. in operations research from George Washington University.

Location

IBM - 600 14th Street NW, 2nd Floor, Washington, DC 20005
 There will be an IBM representative at the front of the building from 6:00 pm until 7:00pm to greet and escort guests, or call 202-344-5341 to be let in.

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

<http://www.iienationalcapital.com/events/evening-program-the-mathematical-theory-of-negotiations-and-coalition-building/>

Our Sponsors



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Contact Us

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Email the editor:

Dr. Averill M. Law Simulation Modeling Course Schedule

Dr. Averill M. Law, who is widely regarded as one of the world's foremost experts, consultants, and authors on simulation modeling, will be presenting the following simulation short courses in the Washington DC area and also after the Winter Simulation Conference in Phoenix:

- Simulation Modeling for System Design and Analysis, I: Fundamental Principles November 14-16, 2011 Washington, DC
- Simulation Modeling for System Design and Analysis, II: Advanced Concepts November 17-18, 2011 Washington, DC
- How to Validate Your Models and Simulations December 15-16, 2011 Phoenix, AZ (after WSC 2011)
- Design of Experiments for Simulation Modeling: Factor Screening, Prediction, and Optimization November 29 - December 1, 2011 Washington, DC
- Agent-Based Simulation for Modeling Complex System Behaviors December 2, 2011 Washington, DC

Dr. Law has presented more than 500 short courses in 18 countries since 1977. He is also the author of the book Simulation Modeling and Analysis

editor@iienationalcapital.com

Quick Links

www.iienationalcapital.com
www.iienet.org

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(Fourth Edition, McGraw-Hill, 2007), with more than 135,000 copies in print. It is widely considered the "bible" of simulation.

For additional information, please contact:
Steffi Lauren
Director of Marketing
520-795-6265

Job Seekers Strategies - Kick Off Fall with a Better Career

Employers' resources are getting stretched after a period of slow hiring. This means that October won't just mean football season, it's hopefully going to be a long awaited active hiring season. Put yourself in the best position to get off the bench and into the lineup with a better career. Go to Institute of Industrial Engineers (IIE) and:

- Update your resume so employers find and recruit you
- Update your job alerts so every great job opening is emailed to you
- Search for jobs to find immediate openings

Don't settle for a mediocre career. Visit Institute of Industrial Engineers (IIE) and find a Hall of Fame Career today.

Baby Boomers, Beware! Don't Let Your Resume Date You!

If you're a job seeker of the Baby Boom generation, you may be feeling a little left out by the job market. You're certainly not ready to retire, but the young recruiters you send resumes to don't seem to respond to your skills and experience. If you're feeling symptoms of age discrimination, you should know that your resume could be the culprit, categorizing you as out of date and over the hill.

Read the rest of the article here: <http://www.iienationalcapital.com/careers/baby-boomers-beware-don%E2%80%99t-let-your-resume-date-you/>

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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 Computer and Information Systems (CIS) Division

The IIE-CIS Division is urgently looking for nominations for potential speakers for an IIE-CIS webinar. An ideal candidate would be someone:

1. who can speak about a CIS-relevant topic which can attract a broad audience from industry, academia, and government, and
2. who has great/professional presentation skills.

If interested in nominating yourself or someone else, or to get more

information please contact Russell Wooten at [russell.wooten@iienationalcapital.com](mailto:russell.wooten@iienationalcapital.com)

## GE Software Webinar Series

Join GE researchers to discuss how data, analytics, and software are driving change in the global business landscape. Join the conversation on Twitter using the hashtag #GEsoftware!

Some upcoming events include:

- Movement Planner & Trip Optimizer: October 11th at 3:00 p.m. - GE Global Research has partnered with GE Transportation to develop and implement algorithms to efficiently move freight trains on a rail network. Join us to learn how railroads use these algorithms to minimize operating costs.
- Healthcare Solutions: October 27th at 3:00 p.m. - A multi-disciplinary team of engineers and scientist at GE Global Research Center is developing technologies to enable safer and more efficient patient care. Join us to learn how these solutions can impact our lives.
- Electric Vehicle Simulation: November 17th at 3:00 p.m. - Electric vehicles will change the transportation and energy distribution landscape. At GE Global Research we are using advanced agent-based simulation, expert reasoning and operations research techniques to understand this new world. Applications include granular models of EV adoption and the utilization and placement of charging infrastructure.
- Affective Computing: December 6th at 3:00 p.m. - Affective computing is computing that relates to, arises from, or influences emotions. Join us to learn how affective computing can impact the way we deal with people, computers and robots.



For more information, visit: <http://ge.geglobalresearch.com/careers/niskayuna-ny-usa/working-here/software-sciences-webinar-series/>

## Learn how to become a better IE manager in just one day!

Gain practical ideas for managing industrial engineering teams and functions from some of the leading minds in the field, including Scott Sink, the highly regarded lean sigma certification program director in the Department of Integrated Systems Engineering at The Ohio State University.

The projects in Scott's program have generated nearly \$4 million in direct benefits to businesses and industry in Ohio, including The Limited, Kroger and The Ohio State University Medical Center. And in addition to his academic career, he has held positions in the private sector as vice president of business process re-engineering for Exchange Solutions and vice president of business process improvement for MDS International.

Learn more about Scott and the other featured presenters at [www.iienet.org/ManagingIE](http://www.iienet.org/ManagingIE).

The registration deadline is Oct. 24, so be sure to join us and cultivate success in your industrial engineering career. For conference details, please view the conference brochure or visit our website at [www.iienet.org/ManagingIE](http://www.iienet.org/ManagingIE).

## The Journal of the Washington Academy of Sciences

If you have a desire to publish a paper in a prestigious journal, submit your manuscript for consideration to The Journal of the Washington Academy of Sciences < <http://www.washacadsci.org/> >. Manuscript requirements can be accessed here: <http://www.iienationalcapital.com/professional-development/the-journal-of-the-washington-academy-of-sciences/>

If you have questions, please feel free to contact the Chapter's delegate to the Washington Academy of Sciences (WAS), Neal Schmeidler at 703-462-5471 or [neal.schmeidler@iienationalcapital.com](mailto:neal.schmeidler@iienationalcapital.com).

## National Cybersecurity Awareness Month

### Protect Yourself Online - Use Social Networking with Caution

Learn more about how to protect yourself online here: <http://www.iienationalcapital.com/general-communication/national-cybersecurity-awareness-month/>

## IIE / WINFORMS joint effort on social networking and mentoring

It is official. Board of Directors from National Capital Chapter of the Institute for Industrial Engineering (IIE) and the Washington DC Chapter of the Institute for Operations Research and the Management Science (WINFORMS) have gotten together to discuss joint efforts in social networking and mentoring.

The social networking effort will focus on the younger professionals within both organizations. You can define younger versus not younger. The mentoring efforts will be an opportunity for younger professionals to seek advice and learn from our more mature professionals. Of course at the same time we will probably learn a great deal from our younger counterparts.

For more information, to volunteer to assist, to make recommendations or to identify yourself as a mentor or one wishing a mentor, please contact any one of the following:

- Members of the National Capital Chapter - Lars Gustavson, [lars.gustavson@iienationalcapital.com](mailto:lars.gustavson@iienationalcapital.com)
- Members of WINFORMS - Lin Qiu, [lin.w.qiu@gmail.com](mailto:lin.w.qiu@gmail.com)
- Either professional organization - Russell Wooten, [russell.wooten@iienationalcapital.com](mailto:russell.wooten@iienationalcapital.com)

## Moneyball: why it's IE/OR at our best

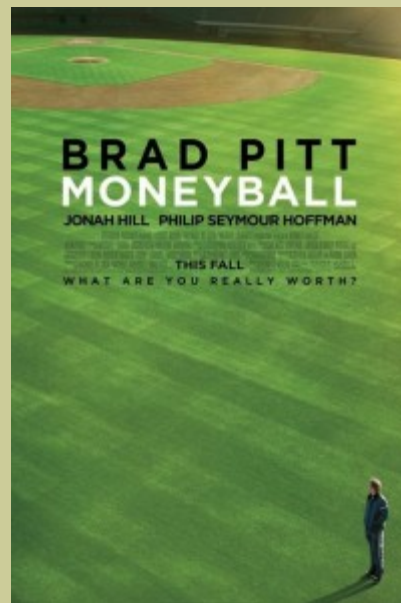
The movie "Moneyball" stars Brad Pitt as the general manager of the Oakland Athletics who is compelled to find a new way to put together a winning team because of his shoestring budget. Industrial Engineering, Operations Research and Analytics save the day.

Although the A's never won a championship in this era, Oakland did overcome their payroll disadvantage to make the playoffs each year from 2000-03 at a time when writers, fans, and even the commissioner of the league were all lamenting the inability of smaller-market teams to compete with the big-budget teams such as the New York Yankees and Boston Red Sox.

The statistical analysis used as the basis for Oakland's decision making was not all original. Much of it was drawn from work by baseball statistician Bill James and others that began at least two decades earlier. This research reexamined the game down to its foundation in an attempt to quantify the true value of the skills that lead to winning in baseball.

The real stars of the movie are math - and those who had the audacity of using it as the basis for baseball decisions. The movie is based on the 2003 book by Michael Lewis, "Moneyball: The Art of Winning an Unfair Game."

If you are an INFORMS member, you can find more information on their website.



## **IIE is a sponsor of National Engineers Week Future City Competition**

IIE is a proud sponsor of the National Engineers Week Future City Competition. This competition challenges students with problem solving, team work, communication, research, and practical application of science, math, and technology.

There are opportunities nationwide for Professional and Student Chapter involvement for mentoring these middle school students as they develop their Future Cities.

Please check with your nearest Regional Coordinator for opportunities to support.

## **INTRODUCING the Society for Engineering and Management Systems (SEMS) Newsletter and its first featured member bio!**

### **Russell Wooten - IT Strategy Manager, U.S. Department of Homeland Security, Transportation Security Administration**

A business professional with 30 years of private sector leadership now aligned with nearly 10 years experience in the federal government combining skills in project management, industrial and systems engineering, operations research and management science, and knowledge of advance technologies to bring greater efficiencies to his mission of protecting the Nation's transportation systems and ensuring freedom of movement for people and commerce.

To learn more about Russell, visit our Chapter website:

<http://www.iienationalcapital.com/chapter-activities-report/introducing-the-society-for-engineering-and-management-systems-sems-newsletter-and-its-first-featured-member-bio/>

## **Member Accomplishments: Blue Ribbon Bread 1st Place Award**

Who knew we have an award winning bread-maker in our midst?

The 1st Place Ribbon for his artisan sourdough bread using wild yeast went to Neal Schmeidler at the 2011 Maryland State Fair. Schmeidler is serving as the National Capital Treasurer and is a Fellow of the IIE.

Congratulations, Neal! We may have to switch from the regular Bagels and Donuts at our monthly Board Meeting, to artisan bread ...



Read more: <http://www.iienationalcapital.com/chapter-activities-report/blue-ribbon-bread/>

## Survey of Members for input to 2011 Fall Semester Engineering Technology Advisory Committee NVCC

Curriculum advisory committees help Northern Virginia Community College (NVCC) administrators direct and guide career/technical programs for which students do not typically transfer to another academic institution to complete a four-year degree, but rather seek employment after completing a two- year degree.

Subsequent to 2011 Spring semester committee meeting discussions, the author solicited input from industrial engineers in the Washington, D.C. metro area via a survey using SurveyMonkey ([www.surveymonkey.com](http://www.surveymonkey.com)). Members of the National Capital Chapter of the Institute of Industrial Engineers (IIE) ([www.iienationalcapital.com](http://www.iienationalcapital.com)) with email addresses received a brief explanation of the survey purpose and the link to the survey. Responses were collected via SurveyMonkey during the period September 16 - 22, 2011. Twenty-three (23) of the pool of 182 responded to the survey, a 12.6% response rate. Members with both a work and home email address only received a message at their work address. Attached are the results of the survey without comment by the author. The author provided minor editing for clarity for some textual responses.

The complete survey results are available for download on our Chapter website: <http://www.iienationalcapital.com/chapter-activities-report/survey-of-members-for-input-to-2011-fall-semester-engineering-technology-advisory-committee-nvcc/>

*prepared by  
Neal Schmeidler  
OMNI Engineering & Technology, Inc. McLean, Virginia*

## 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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