

INCOSE Hampton Roads Area Chapter Newsletter



WINTER 2011

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"The purpose of the Hampton Roads Area Chapter is to foster the definition, understanding, and practice of world class systems engineering in industry, academia, and government and the professional growth of chapter members in systems engineering."



Figen Baysal, our Past President, enjoying the Holiday Party at the Reed/Waddell home.

Happy Holidays from HRA-INCOSE to You!

On December 10th, the Reed/Waddell Residence in Smithfield, VA was venue to the 4th Annual Reed Integration / HRA-INCOSE Holiday Party. More than 60 people attended, including representatives from the Navy/SPAWAR, NASA, Booz Allen, Huntington Ingalls, Sealift Command, MYMIC, Apollo Press, Canon, ODU, and TNCC. There were 2 ESEPs, a few CSEPs, and even some PMPs present.

The décor was elegant, the live entertainment was classy, and the

food was even more delectable than in previous years, but it was the upside down Christmas tree that put this year's celebration over the top! We can't wait to see what's in store for next year!

HRA-INCOSE would like to extend a big "Thanks!" to Becky Reed and Steve Waddell for offering up their beautiful home for this wonderful event! What fabulous hosts!



Annual Conference – Risk in Uncertainty: Risk & Opportunity

Our HRA-INCOSE annual fall conference, "Decision in Uncertainty: Risk & Opportunity" was held at the Virginia Modeling, Analysis & Simulation Center, Suffolk, VA on November 2 & 3. We had an outstanding speaker list, lead by Key Note Speaker, Steve Jurczyk, Deputy Director NASA Langley Research Center. It was said that our line-up "was one of the best ever, and the speakers were of International Symposium quality."

After the first day, a wonderful reception was held at the River Stone Chophouse. More information on the speakers can be found on our website at:

http://www.incose.org/hra/Decision%20Analysis%20Conf%202011/Decision_Conf_2011_index.htm

A special thanks to our conference sponsors:

**REED
INTEGRATION, INC.**

SAIC



Above: Mike Podolsky presenting a certificate to Caitlin Klar

Below: Kelly Moses presenting a certificate to Mike Spitz





Shawn Scharf, CDR, USN, Ret.

Shawn Scharf, a Lead Safety Analyst at Futron Corporation, joined HRA-INCOSE in May 2011.

New Member Spotlight

Shawn Scharf recently joined the Futron Corporation as a Lead Safety Analyst where he conducts capture management and risk analysis for the Futron engineering division in Hampton Virginia. Prior to joining Futron he was a Senior Principal Specialist with General Dynamics Information Technology providing curriculum consulting services to the Joint Forces Staff College in Norfolk Virginia. Shawn served 23 years in the U.S. Navy flying both fighter and logistics aircraft. He has been involved in multiple aviation systems safety engineering projects and installation safety management programs. Mr. Scharf has a Master of Business Administration from Benedictine College, Atchison Kansas, and a Bachelor of Science in Systems Engineering from the U.S Naval Academy, Annapolis

Maryland. He is also certified as a Six Sigma Green Belt and Distance Education Professional.

Additional New Members for 2011:

- David Grant
- Kellie Quezada
- Seth Martin (Reed Integration, Inc.)
- Robin Zivadinovic (DoD)
- Lion McLean (Ocean LightForce
Chiropractic)
- Mauro Guede (Brazilian Army)
- Michael Lightfoot (NASA)
- Aidan Kelleher (MIT)
- Paul Taylor (Newport News Shipbuilding)
- Ralph Thompson (SPAWAR)
- William Lloyd (SAIC)
- Bruce Burkett (Booz Allen Hamilton)
- Tammy Schalkham (Northrop Grumman)
- Todd Hicks (United States Navy)
- Alban "Chip" Weber (SAIC)
- Caitlin Klar (Booz Allen Hamilton)

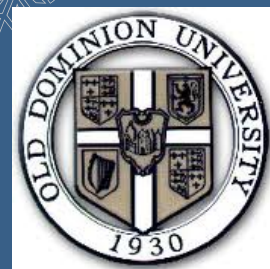
No Coat, No Tie!

HRA-INCOSE sponsored a "No Coat, No Tie" chapter meeting at Old Dominion University on Thursday, 20 October 2011. This meeting provided an opportunity for practicing systems engineers to meet with faculty members from local colleges and universities, as well as with graduate and undergraduate students from those colleges and universities. The purpose of the meeting was to foster improved professional networking, broader communication between the academic world and the world of practice, and also to give student a chance to learn about issues and opportunities facing systems engineers. The meeting was open to those who aren't INCOSE members, and there was no need to join INCOSE to participate.

The October meeting was a departure from our customary format of dinner followed by a presentation. Instead, the October meeting was an informal event with free pizza and three different perspectives on systems engineering. The meeting kicked off at 6:00 pm with an introduction followed by several short presentations of student achievements and activities in systems engineering. A set of brief presentations by faculty members with local colleges and universities followed. The third focus area shifted to a final set of brief presentations by systems engineers practicing in Hampton Roads. The final phase of the meeting will provide an opportunity for participants to ask questions of local representatives from Corporate Advisory Board member companies, and from other local organizations. The meeting concluded at 8:00 pm.



Students participating in the "No Coat, No Tie" event in October.



Chapter Dinner Meeting Recap

May – The Anti-goal Approach to Risk Identification: The Systems Engineering Perspective



Dr. Ariel Pinto
(ODU)

In our May dinner meeting, Dr. Pinto described extensions and modifications of some anti-goal concepts to facilitate risk scenario identification, support integration of non-technical factors in risk identification, combine risk scenario identification with goal analysis, and support goal-oriented risk management and systems development. Conventional practices identify risk events by looking back on what went wrong in the past and looking ahead to foresee what can go wrong in the future. First of kind systems and existing systems entering new environments need a method to identify risk events that have not yet happened. Systems engineers can apply the concept of anti-goals to identify risk scenarios for these situations.

Dr. Pinto is Program Director for Graduate Systems Engineering and Doctor of Engineering Dept. of Engineering Management & Systems Engineering at ODU, where he co-founded the Emergent Risk Initiative at ODU. He earned his doctorate degree in Systems Engineering from the University of Virginia and master and bachelor degrees in Industrial Engineering from the University of the Philippines.

July – Implementing the Human View with the DODAF Data Model



Dr. Holly Handley
(ODU)

Dr. Handley presented an example of the methodology, and discussed DM2 implementation and reconciling interpretations of the Human View with different DODAF architecture frameworks. This talk described a methodology aligning the Human View with the DoDAF 2.0 Meta Model to produce Fit for Purpose views augmenting the standard architectural products describing systems. The Human View adds a “human in the system” viewpoint to the existing architecture framework for describing the structure of components, their relationships, and principles and guidelines governing their design. The Human View focuses on human roles and activities, their technology based interactions, as well as enablers and constraints due to manpower, training, and human factors issues. The Human View

August – Issues and Applications in System of Systems Engineering



Dr. Chuck Keating
(ODU)

Dr. Keating directs the National Centers for System of Systems Engineering (NCSOSE) at ODU, where he also serves as a professor in the Engineering Management and Systems Engineering Department. In our August dinner meeting, Dr. Keating discussed problems and solutions encountered during his involvement with NCSOSE. As an Enterprise Research Center in the Batten College of Engineering and Technology, NCSOSE focuses on complex systems problems to develop and test theory, methods, tools, technologies, and to provide focused training to more effectively deal with complex system problem domains. NCSOSE's primary goals are to advance the body of knowledge and state-of-the practice relating to engineering complex systems of systems.

Dr. Keating earned a Ph.D. in Systems Engineering from ODU, an M.A. in Management from Central Michigan University, and a B.S. in Engineering from the United State Military Academy (West Point). His research interests include system of systems engineering, complex system governance, and management cybernetics.

September – Thinking With Your Gut: Application to Program Management and Systems Engineering



Joe Quinn (SAIC)

“Thinking with your gut” means learning to take advantage of our innate ability to quickly evaluate risks and make effective decisions based on recognizing patterns learned through experience and deep intuition. This skill can be an essential part of the tool kit for any systems engineer or project manager operating in the fluid, shifting conditions characteristic of today's business environment. Joe's discussion explored his research into how to recognize and purposefully apply this skill in systems engineering and project management.

Joe Quinn is a Vice President and Division Manager with SAIC whose Division provides Tactical Training and Technical Services in Combat Systems, Communications, and Information Warfare to the U.S. Navy and other Armed Services. He's a retired Naval Officer and a graduate of the U.S. Naval War College. He holds a Bachelor's degree in Mathematics from The Citadel and a Master's degree in Management from Florida Tech.

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You can find all of our contact information on the HRA-INCOSSE Chapter website, www.incose.org/hra



- 2001



- 2009, 2006, 2005, 2002



- 2011, 2010, 2008, 2007, 2004, 2003, 2001

Wine & Cheese Social

Better than any tasting event you can imagine is the RII/HRA-INCOSSE Wine & Cheese social! Talk about wine...and talk about cheese...but of course, that's not all! Live music provided by the Copley Trio provided the perfect ambiance. Hors d'oeuvres galore filled every available table and countertop. And the wine bar overflowed to coolers on the patio, which proved to be prime real-estate given the fabulous June weather. Perhaps this event would be better named the "Wine & Cheese Exposition!"

With all the sophistication of an event that caters to discerning adults who seek fine wines and culinary creativity, this social did not miss out on the fun of a Hawaiian-themed dress code with flower leis and all. Just take a look at the picture below!



Rick King, the HRA-INCOSSE Secretary's husband and an avid supporter of Chapter events, dons a grass skirt in the true Hawaiian spirit.

Aloha!



SE Certifications!

Congratulations to all of our members that earned their Systems Engineering Certifications this year!

CSEP: Merrill Witzel, March 2011

Bruce Burkett, May 2011

ASEP: Gilbert Lang, July 2011



INCOSSE

International Council on Systems Engineering

How Do I Join INCOSSE?

You can join INCOSSE online at www.incose.org, or by contacting a local chapter officer. To join the HRA Chapter, designate HRA as your affiliated Chapter when you join INCOSSE.

