



December 2009  
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# North Coast System Engineer

## FROM THE PRESIDENT'S DESK



*Daniel Gauntner*

Welcome to the second issue of the **North Coast Systems Engineer**, our e-newsletter for the INCOSE Cleveland-Northern Ohio Chapter. The publication of this e-newsletter itself is one indicator of the success we have had as a Chapter in 2009. During the year we affiliated with the Cleveland Engineering Society, we developed several programs for you, from INCOSE certification stories, to presentations on the practice of systems engineering in large and small companies, and within NASA. Our INCOSE Autumn '09 Conference (held in October at the Ohio Aerospace Institute) brought systems methods to bear on power and energy systems via a day and a half of presentations, vendor demos, both of which were accompanied by networking possibilities. A highlight of the year occurred at IS2009, when our chapter was awarded a Bronze Circle Award! One of our major efforts was aimed at developing new members. This took us to the universities for new student members. Our overall membership has grown to 53 active professional and

student members, albeit with 17 others who have let their membership lapse. A goal for next year will be to grow our totals towards 75, with an effort to reclaim those who have lapsed.

My year as your Chapter President is rapidly drawing to a close. In October you elected a new slate of officers. Mr. Tony Johnson is your new President. Mr. Dennis Rohn will be the Vice-president (and President-elect!). Mr. Cody Farinacci is your new Secretary. Mr. Alan Richard takes over as the Chapter Treasure. And I will serve as the Past-President, helping Tony with his transition, and anywhere else I can be of assistance. I want to thank all of you for your participation and support of the Chapter this year. The Chapter is here for you. Please let any officer know if you have ideas to make our Chapter even better.

## INCOSE CLEVELAND- NORTHERN OHIO CHAPTER WELCOMES NEW MEMBERS

During the 2009 year we added 20 new members to the C-NO chapter. Most recently we added 8 at or during the Autumn '09 Conference. Mr. Bryan Smith and Mr. Jim Soeder join us from NASA-Glenn Research Center. Bryan is the current Chief of the Systems Engineering Division, responsible for the development and practice of SE at NASA-GRC. Jim is a Senior



Technologist in the Power area. Mr. Jim Kolibas and Mr. Joe Ogonek join us from Qinetiq-NA, a local support contractor to NASA’s aerospace activities. Jim is a verification and validation systems engineer, while Joe is a key manager in the company’s engineering areas. We are also pleased to add four student members from the Cleveland State University. Ms. Amanda Beach, Mr. Richard Rarick, Mr. Bharot Vyakaranam, and Mr. Pavel Lozouyy have joined C-NO as they continue their education. Please welcome all these new members.

## CHAPTER MEETING SUMMARIES

May 19<sup>th</sup>  
On May 19<sup>th</sup> the Cleveland –NO chapter was pleased to host Dan Serber from the CSEP certification committee for our chapter meeting. Dan provided an overview of the various levels of certification and the requirements for attaining and maintaining certification. Dan concluded the meeting with a discussion of the value of CSEP certification and how the major aerospace companies are moving to incorporate certified systems engineers

into their workforces. There was a good question and answer session afterwards and the meeting concluded.

September 15<sup>th</sup>  
At our September chapter meeting Carl Dister and John Juhasz provided a panel discussion on their experiences in preparing for and taking the CSEP exam. Carl supplied a presentation to facilitate the discussion. The meeting was held at Tony K’s in Berea.

## NEW CHAPTER OFFICERS ELECTED

President: Tony Johnson  
Vice-Pres: Dennis Rohn  
Secretary: Cody Farinacci  
Treasurer: Alan Richard  
Past-President: Dan Gauntner

This new team for the Board of Directors will take over at the end of our January 2010 chapter meeting. Please congratulate them when you see them

### Did You Know ...

Did you know that, as a member benefit, the Journal of Systems Engineering and the Insight magazine that had been previously provided in hard copy are available electronically?

To access the Journal you will first need to register with Wiley InterScience. To do this, which is a multi-step process, instructions can be found in INCOSE Connect at:

[https://connect.incose.org/Shared%20Documents/Wiley\\_instructions.pdf](https://connect.incose.org/Shared%20Documents/Wiley_instructions.pdf). Once registered, you then go to <http://www3.interscience.wiley.com/cgi-bin/jhome/39084> and log in. All Journal articles are searchable. To access the Insight, go to <https://connect.incose.org/INSIGHT%20Library/Forms/AllItems.aspx> in INCOSE Connect. All Insight magazines since 1993 are available for download in PDF form.

2010 Chapter Officers:

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## 2009 Chapter Officers

L to R: Dennis Rohn, Tony Johnson, Dan Gauntner, John Juhasz, Tony Jannette

## INCOSE REGION IV FALL CONFERENCE SUMMARY

Our Cleveland Northern Ohio INCOSE chapter took a significant step this past October as host to the successful Region IV Fall Conference, held on October 26 at the elegant, modern facilities of Ohio Aerospace Institute. It was the first major public event and a notable achievement for our chapter and the newly formed INCOSE Power & Energy Systems Working Group, as well as with the participation and partnership of other region IV chapters including Michigan, and the Rochester Finger Lakes region. In addition to our major conference sponsor Hamilton Sunstrand, we were very pleased and gratified for the cooperation of the Great Lakes Science Center, and at the significant support of corporate sponsors such as IBM, AnSYS, PCKA, PPI, QinetiQ, ASRC, Easi, Battelle,

The headline Region IV conference theme was “Using POWER of Applied Systems Methods”. It was intended to elevate awareness of advanced SE methods for dealing with complex problems in our modern society, in particular the complex challenges related to solving humanity’s energy needs. The program was geared for systems engineers, functional engineers, power & energy specialists, and program managers seeking to create solutions for complex problems. Full details on the technical content and other aspects of the conference can be found on the conference website: <http://www.incose.org/cleveland/RS09/Main.htm>

The conference “speakers roster” featured about 12 high-profile, accomplished professionals from industry, academia, and government, providing a wide range of valuable contributions to energy solutions and environment. A unique INCOSE Vision2020 lunchtime presentation was given by Dr. Rich Gryzbowski of Corning Research, also serving as INCOSE Region IV Director. The audience was briefed on the objectives and strategies established at INCOSE for achieving higher levels of Systems Engineering competencies and capabilities. A memorable highlight of the conference was the appearance of our keynote speaker, Dr. Harrison Schmitt, former Senator and Astronaut/Scientist on Apollo 17, the last flight to the moon. As a geologist,

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Dr. Schmitt shared his significant insights on the formation of the moon and his findings on lunar soil and rock compositions, some of which may have high potential for future energy development. He further outlined a “systems approach” to lunar development for commercial enterprises in mining the resources of the moon for energy use on earth. Dr. Schmitt also gave an address on Space Exploration at the Great Lakes Science Center as well as recollections on his Apollo 17 lunar experience, to the delight of a packed

auditorium including many parents and their young budding astronauts.

Overall participation in the conference exceeded 70 attendees, as well about 6 conference exhibitors. Presentation materials, exhibitor information, and video segments of presentations are to be made available in the near future via the chapter website. (stay tuned for announcements).

The Region IV conference organizing committee worked diligently for nearly a year, developing the program and

arranging speakers, exhibitors, logistics, and sponsorship support which enabled a successful outcome. The directly observable result was growth in chapter membership, and a substantial boost to the chapter treasury. The indirect value is the significant elevation of the chapter profile, both within INCOSE as well as the local community and the Power and Energy sector. It also established a key impetus for future such events, building on the foundation of this conference and the numerous positive relationships with leading companies and professionals.



# Regional Conference 2009





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